

GENERAL CATALOGUE

AUDIO - PA SYSTEMS - COMMUNICATION

2023-2024



FONESTAR

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> Our credentials



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since **1947**



Installations **all over**
the world



End-to-end solution
public address +
intercom



110 employees



14000 m² of warehouses
with permanent stock



Great value
for money



Thorough and fast
customer service



Extensive catalogue
of products



Maximum flexibility
We adapt the solution
to your needs



Project Team
at your disposal

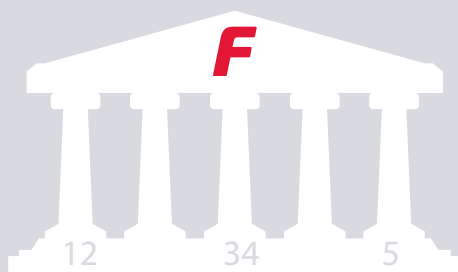


Customer training



R+D+i equipment

> Our five pillars



SERVICE

Maximum commitment to our customers; quick response and immediate product availability.

SOLUTIONS

Wide range of products to suit your needs.

ADVICE

Sales team at your disposal for comprehensive advice.

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We create long-term value by building on honest, transparent and integral relationships.

INNOVATION

Permanent focus on innovation and creation of tailored solutions for our clients.

LEADERS IN COMMUNICATION TECHNOLOGY

PA systems



Pro Audio



Microphones



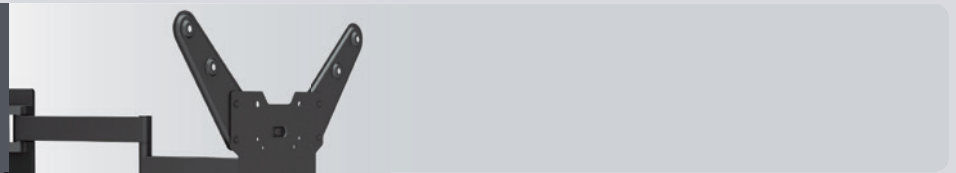
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PA SYSTEMS



WHY AN EVACUATION SYSTEM

Voice evacuation systems are indispensable to help in emergency or fire situations. They provide clearly understandable voice messages to help people evacuate an enclosure to safety without panic.

A voice alarm system in accordance with **EN 54 is mandatory in public and hospital premises**. Fonestar voice alarm systems are certified according to EN 54 for fire detection and fire alarm systems.

In the event of **an alarm or fire**, it is essential to evacuate

one or more parts of the premises without causing panic. The use of verbal messages via loudspeakers, instead of alarm bells or sirens, allows for a faster and safer evacuation.



VELA EVACUATION SYSTEM EN 54

VELA is a voice alarm system certified according to the EN54 fire protection standard. Complete solution for emergency public address and evacuation with zones. Compatible with Dante and Ethernet connection for configuration and control via PC software. Among its main functions we can highlight the emission of emergency and evacuation warnings with zone control. System status check and monitoring of loudspeaker lines. DSP functions of inputs and outputs. Playback of pre-recorded messages, microphone and line inputs, automatic switching of the backup amplifier.

VELA-AMP central amplifiers and VELA-EXT extensions have 6 zones with independent volume. The system supports up to 252 zones, with one central amplifier and 42 extensions. Each amplifier provides 360 W RMS power to distribute to the zones, with a maximum of 180 W per zone.

It is possible to connect 2 VELA-FMIC firefighter microphones and 2 VELA-MIC paging microphones to each VELA-AMP central amplifier and VELA-EXT extension. The complete system supports 32 fire microphones and 32 paging microphones. If compliance with EN54-16 is required, only 16 fire microphones can be connected.

Great versatility of integration with other systems, with general purpose inputs and outputs, emergency control inputs for connection to switchboards, outputs to bypass attenuators, etc. Perfect for installation with fire and security systems.

Easy operation and low maintenance cost. The amplifier is fully configurable via the intuitive PC software.



Issuance of **emergency and evacuation** warnings with **zone control**



Checking the **system status**



DSP functions of inputs and outputs



Monitoring of loudspeaker lines



Playback of **pre-recorded messages**



Inputs for **mic and line**



LCD display for intuitive **configuration**



Ethernet connection for configuration



Automatic switching of the **standby amplifier**



Control by **PC software**



VELA SYSTEM

Compact System

All in one:
Amplification + Zones

Compatible with:



Shopping centres, stadiums,
congress centres, hospitals,
residences, etc.

FEATURES OF VELA SYSTEM

> WIDE RANGE OF LOUDSPEAKERS EN 54

Safe and resistant.
In accordance with the EN 54-24 standard.
Compatible with any installation.
All types of use: indoor/outdoor, surface, ceiling, etc.
High sound quality.
Indispensable for transmitting the evacuation message.

> VERSATILE AND INTEGRABLE

Great versatility of integration with other systems, with general purpose inputs and outputs, emergency control inputs for connection to switchboards, outputs to bypass attenuators, etc. Perfect for installation with fire safety systems.
Easy operation and low maintenance cost. The amplifier is fully configurable through the intuitive PC software [audio channel routing and priority levels].
Scalable as the installation requires. Extensive zone microphone management capability.
Dante® compatible for sharing message channels and background music.
ZSM-1000 and ZSM-1500 programmable players can be integrated with the ASSIST system via SIP protocol.

> PC SOFTWARE

Intuitive and visual interface.
Possibility of configuring all system components.
Allows the system functions to be adapted to the needs of the installation.
Error monitoring and operation log.

> SYSTEM SPECIFICATIONS

Each VELA-AMP central amplifier or VELA-EXT extension has 6 zones with independent volume. The system supports up to 256 zones, with one central amplifier and 42 extensions.
The complete system supports 32 fire microphones and 32 paging microphones.
The backup amplifier VELA-BUP can be used for announcement functions and background music. It is always available as a backup amplifier in case of failure of the main amplifier.
It has 6 control inputs and 2 status outputs for connection to the alarm centre as well as other functions.
The VELA-V remote control can conveniently control the sources and volume of each central amplifier or extension from the wall.

EN 54 EVACUATION SYSTEM

VELA

Compact public address and voice alarm system with EN 54-16 certification. DANTE compatible.



VELA-AMP

FEATURES

EN54 amplifier for PA and voice alarm system.
6 speaker zones, maximum 180 W per zone.
Independent volume control per speaker zone.
Expandable to 252 zones maximum with VELA-EXT.
Message player with 16 MB storage capacity.
Error register and storage.
In compliance with EN 54-16.
6 GPI and 6 GPO.
DANTE compatible.
PC software.

POWER 360 W RMS all zones 1 - 6.
For each zone maximum 180 W RMS.

RESPONSE 100-15,000 Hz

INPUTS 2 RD ports, for mod. VELA-FMIC, VELA-MIC or VELA-V.
3 balanced mics/lines, selectable, XLR, 600 Ω 20 mV RMS
2 BGM lins, 2 x RCA 10,000 Ω 300 mV RMS
1 100 V line for back up amplifier, euroblock
2 DANTE ports, 2 x RJ-45 (Primary and Secondary)
6 GPI, euroblock
6 emergency control inputs for fire alarm system with contact closure, 2 x RJ-45
1 PS LINK for emergency power supply.

OUTPUTS 1 REC out, 2 x RCA
6 zone audio outputs for amplification, euroblock
1 LINK for VELA-BUP back up amplifier, RJ-45
6 GPO, euroblock
2 status outputs by contact closure for system integration, 2 x RJ-45
6 attenuator outputs, euroblock 24 V DC

POWER SUPPLY 230 V AC, 1100 W and 24 V DC, 22 A

DIMENSIONS 440 x 130 x 402 mm depth. 3 U rack 19"

WEIGHT 17 kg

VELA-EXT

Extension amplifier for PA system and voice alarm EN54.
6 speaker zones, maximum 180 W per zone.
Independent volume control per speaker zone.
Expandable to 252 zones maximum.
Message player with 16 MB storage capacity.
Error register and storage.
In compliance with EN 54-16.
6 GPI and 6 GPO.
DANTE compatible.
PC software.

POWER 360 W RMS all zones 1 - 6.
For each zone maximum 180 W RMS.

RESPONSE 100-15,000 Hz

INPUTS 2 RD ports, for mod. VELA-FMIC, VELA-MIC or VELA-V.
3 balanced mics/lines, selectable, XLR, 600 Ω 20 mV RMS
2 BGM lins, 2 x RCA 10,000 Ω 300 mV RMS
1 100 V line for back up amplifier, euroblock
2 DANTE ports, 2 x RJ-45 (Primary and Secondary)
6 GPI, euroblock
6 emergency control inputs for fire alarm system with contact closure, 2 x RJ-45
1 PS LINK for emergency power supply.

OUTPUTS 1 REC out, 2 x RCA
6 zone audio outputs for amplification, euroblock
1 LINK for VELA-BUP back up amplifier, RJ-45
6 GPO, euroblock
2 status outputs by contact closure for system integration, 2 x RJ-45
6 attenuator outputs, euroblock 24 V DC

POWER SUPPLY 230 V AC, 1100 W and 24 V DC, 22 A

DIMENSIONS 440 x 130 x 402 mm depth. 3 U rack 19"

WEIGHT 17 kg



VELA-BUP

FEATURES

EN 54 Back up amplifier for PA system and voice alarm.
In compliance with EN 54-16.

POWER 360 W RMS

RESPONSE 100-15,000 Hz

INPUTS 1 PA IN for mod. VELA-AMP or VELA-EXT, RJ-45

POWER SUPPLY 230 V AC, 1100 W and 24 V DC, 22 A

DIMENSIONS 419 x 86 x 335 mm depth. 2 U rack 19"

WEIGHT 13 kg



VELA-PDU

FEATURES

Power distributor for EN54 system.
Distributes power to system devices and eliminates noise from the power line for an optimal system operation.

OUTPUTS 8 female C13 connectors, 10 A total

DIMENSIONS 482 x 88 x 190 mm depth

WEIGHT 3.7 kg

POWER SUPPLY 230 V AC, 2,400 W max

ACCESSORIES 4 power cables with C13 female to C14 male connectors for amplifier power supply



FEATURES

VELA-MIC

Microphone with zone selector for PA and EN54 voice alarm systems. Flexible and full configuration of the keys via PC software. In compliance with EN 54-16. Direct connection to the VELA-AMP amplifier or VELA-EXT.

VELA-V

Remote control for volume control and zone assignment for the VELA system. Connection via RJ-45 cable, Cat 5e and extension link for connection of up to 6 VELA-V controllers in series. It is connected directly through RD ports. Setup via PC Software.

VELA-FMIC

Emergency microphone for PA and EN54 voice alarm systems. Flexible and full configuration of the keys via PC software. In compliance with EN 54-16. Direct connection to the VELA-AMP amplifier or VELA-EXT. Expandable via VELA-EXTMIC.

VELA-EXTMIC

Microphone extension for PA and EN54 voice alarm system. Extension of microphone function keys for mods, VELA-MIC or VELA-FMIC. Flexible and full configuration of the keys via PC software. In compliance with EN 54-16. Cascade connection up to 5 units maximum.

INPUTS	USB B female connector for message storage	-	USB B female connector for message storage	-
POWER SUPPLY	24 V DC, 120 mA, via RD port	24 V DC, 50 mA, via RD port	24 V DC, 120 mA, via RD port	24 V DC, 30 mA, via connection to mods. VELA-FMIC or VELA-MIC
DIMENSIONS	170 x 53 x 243 mm depth	150 x 115 x 23 mm depth	170 x 53 x 243 mm depth	170 x 50 x 243 mm depth
WEIGHT	0.7 kg	0.3 kg	0.7 kg	0.4 kg



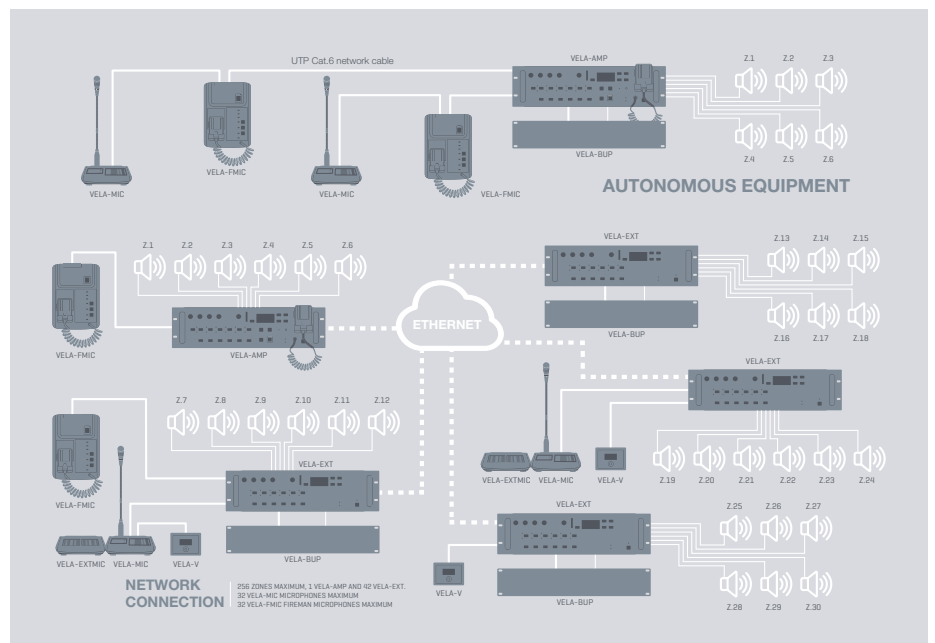
VELA-EOL

FEATURES

End-of-line module for EN54 system. Monitoring of the status of the installation's loudspeaker lines.

DIMENSIONS	60 x 14 x 30 mm depth
WEIGHT	0.1 kg

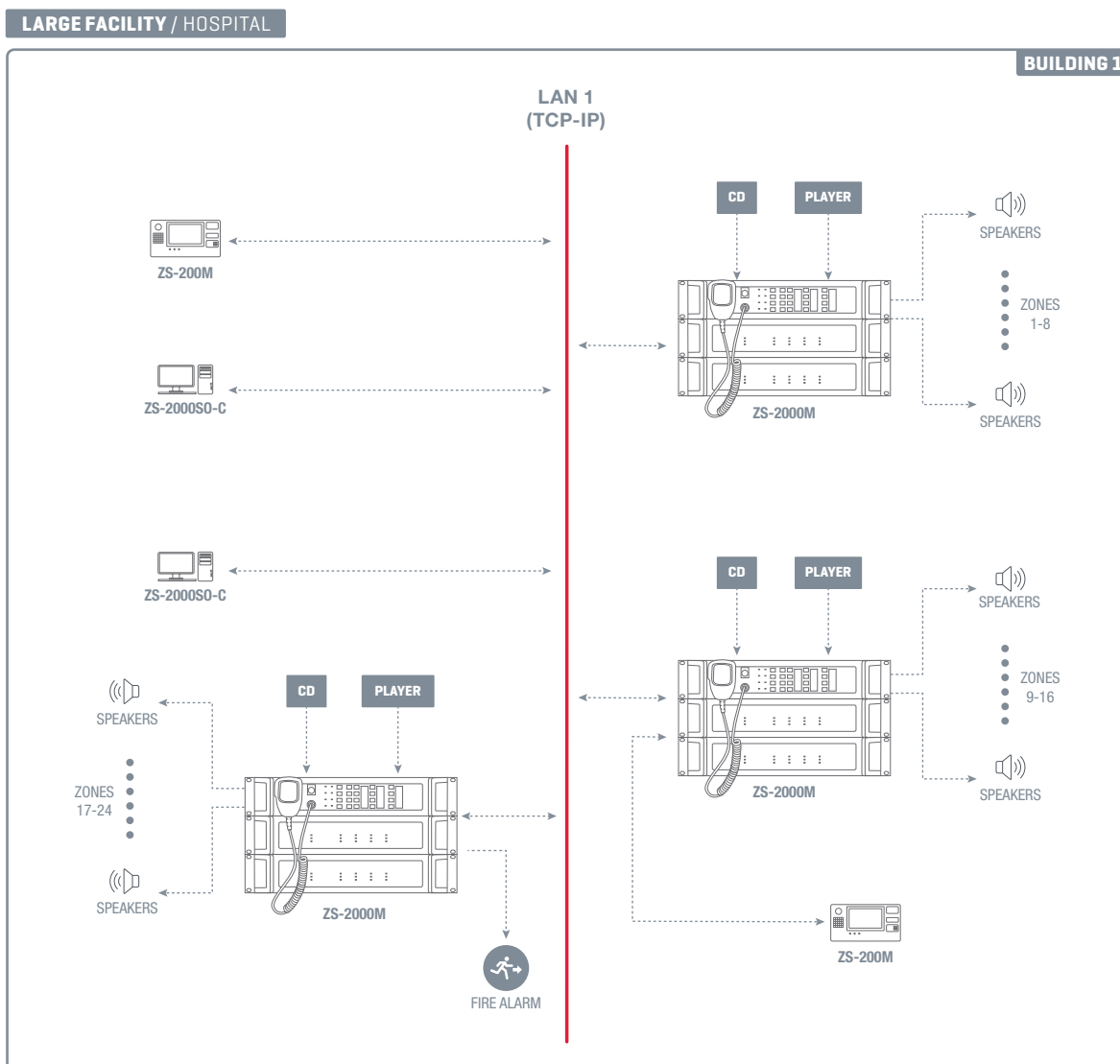
VELA SYSTEM INSTALLATION DIAGRAM





ZS SYSTEM EVACUATION SYSTEM EN 54

The Fonestar ZS-2000-EN system is a flexible, reliable and effective solution for public address and voice alarm projects. It is a perfect solution for medium to large installations. The ideal choice for hotels, office buildings, shopping malls, stadiums, convention centres, etc.



ZS SYSTEM CHARACTERISTICS

- Certified according to European Standard EN 54-16:2008
- Configuration via PC software [included]
- Management and control via local network [optional software]
- Simple system design and expansion
- Integrated system monitoring
- 4 x 125 W, 2 x 250 W and 1 x 500 W class D multi-channel amplifiers
- Microphone with zone selector with LCD touch screen
- User-friendly control interface
- Expandable up to 2,000 zones
- Full-duplex intercommunication between microphones



ZS SYSTEM EQUIPMENT

> ZS-2000M

Main control unit performing the functions of matrix with 8 output zones, message player, emergency microphone monitoring, control of the amplifiers and automatic switching to the backup amplifier in case of failure and monitoring of the loudspeaker lines. Fully configurable via PC. 8 loudspeaker lines, expandable up to a maximum of 2,000 zones. Acts as a 100 V in-line switching unit with 2 operating modes: 1 amplifier per audio source or 1 amplifier for every 2 lines, divided into 8 output zones. Connection to the paging microphones directly or via the local network. 4 auxiliary audio inputs.

- Control unit for public address and voice alarm system EN 54
- 8 loudspeaker zones
- Expandable to 2,000 zones max. with ZS-2000M
- Monitoring of all 8 loudspeaker lines [A+B]
- Monitoring of the microphones ZS-200M
- 100 V line switching with 2 operating modes: connection for 1 amplifier per audio source or connection for 1 amplifier per 2 zones, distributed to 8 loudspeaker output zones
- Message player with 512 MB storage capacity
- Error logging and storage
- Certified to EN 54-16 standard
- 8 inputs and 8 outputs per contact closure

> ZS-200M

Announcement microphone with zone selector, allows the broadcasting of voice messages or pre-recorded messages. Direct connection to the control unit or via the local network. Easy to use touch screen. Incorporates different priority levels. Flexible configuration of the keys on the screen: selection of zones, zone names, groups, messages, etc.

> ZS-4328IO

Input and output management system. Extension of the public address system with 4 audio sources and message player with 4 GB storage capacity. It has 32 inputs and 8 general purpose contact opening/closing outputs.

> ZS-4125/ZS-2250/ZS-1500

Digital power amplifier, 4/2/1-channel (4 x 125 W/2 x 250 W/1 x 500 W), with output transformer for 100 V and 70 V lines.

> ZS-200SO-SP/ZS-2000SO-S/ZS-2000SO-C

Control software for public address and voice alarm system EN 54. It allows monitoring the system status, making voice announcements, playing or programming audio files and recording the events produced in the public address system. ZS-200SOSP: aimed at medium and small installations, it can manage up to 20 ZS-2000M units and generate up to 20 audio channels.

ZS-2000SO-S and ZS-2000SO-C: oriented to large installations, it can manage up to 250 ZS-2000M control units and generate up to 60 audio channels. A minimum of one server licence and one client licence is required.

EN 54 EVACUATION SYSTEM

ZS

Main control unit performing the functions of audio matrix with 8 output zones, message player, emergency microphone monitoring, amplifier control with automatic switching of the backup amplifier in case of failure and monitoring of the loudspeaker lines. Fully configurable via PC. 8 speaker zones, expandable to up to 2.000 zones. 100 V line switching with 2 operating modes: connection for 1 warning amplifier and 1 amplifier per audio source with max. 4 auxiliary inputs, or connection for 1 amplifier per 2 zones. Direct or Ethernet connection of ZS-200M microphones.



ZS-2000M

FEATURES

Control unit for public address and EN 54 voice alarm system. 8 speaker zones. Expandable up to 2,000 zones maximum with ZS-2000M. Monitoring of 8 loudspeaker lines (A+B). Monitoring of ZS-200M microphones. 100 V line switching with two operating modes: connection for 1 amplifier per audio source or connection for 1 amplifier for every 2 zones distributed to 8 output zones for loudspeakers. Message player with 512 MB storage capacity. Error register and storage. In compliance with EN 54-16. 8 inputs and 8 outputs through contact closure.

POWER SUPPLY	100-240 V AC, 120 W and 24 V DC, 2.5 A
DIMENSIONS	483 x 88 x 425 mm depth. 2 U rack 19"
WEIGHT	9'6 kg



ZS-432810

FEATURES

General purpose audio input/output input management system. Amplification of public address and voice alarm system EN 54. 4 balanced line inputs. Message player. 32 supervised contact opening/closure inputs, euroblock. 8 general purpose contact opening/closing outputs, euroblock. 512 MB internal memory and 16 GB memory with internal SD card. 4 ethernet, RJ45. 2 communication ports RS-485.

POWER SUPPLY	100-240 V AC, 15 W
DIMENSIONS	483 x 92 x 425 mm depth. 2 U rack 19"
WEIGHT	7 kg

Zone selector microphone for ZS-2000M system.

ZS-200M

FEATURES
 Microphone with zone selector for PA system and EN 54 alarm system.
 4.3" colour TFT touch screen.
 Flexible configuration of the on-screen keys.
 In compliance with EN 54-16.
 Loudspeaker incorporated, for monitoring zones or communicating with another ZS-200M microphone.
 Direct connection with the ZS-2000M control unit or through the local network (LAN).
 Connection of up to 20 microphones.



POWER SUPPLY	12/24 V DC, 2/1 A with adapter included
DIMENSIONS	210 x 55 x 110 mm depth
WEIGHT	0.75 kg

Paging microphone for ZS-2000M system.

ZS-300MIC N!

FEATURES
 Paging microphone for public address and EN 54 voice alarm system .
 7" touch screen
 Configurable, with different access levels and multiple users.
 Emergency or normal manual warnings.
 Warnings to zones or groups.
 Execution of tasks, up to 1024.
 Text-to-speech messages.
 Zone monitoring.
 Intercom with other microphones.
 USB port for storage and audio file playback.
 Direct recording and playback of messages.
 Weekly schedule.
 Auxiliary input that can be configured with Network Audio channel (streaming) for the system.
 Emergency button.
 Sample rate 44.1 kHz, 16 bit
 Configuration via PC control software.
 Local network (Ethernet) connection.
 Expandable with up to 8 x ZS-404EXTMIC or ZS-408EXTMIC.
 Connection of up to 250 microphones.
 You can control up to a maximum of 250 main units.
 Supports multilanguage.
 POE or local power supply.
 EN 54-16 certificate.



EN 54

MICROPHONE	-44 dB ± 2dB
INPUTS	1 line 3.5mm TRS, 1 V RMS
OUTPUTS	1 line 3.5mm TRS, 1 V RMS
SIGNAL TO NOISE RATIO	>85 dB
TEMPERATURE RANGE	Operation: -10°C ~ 55°C Storage: -40°C to 70°C
HUMIDITY	<95%
POWER SUPPLY	POE or 24 V DC, 1 A, 11 W Adapter included
DIMENSIONS	Length of microphone 385 mm 200 x 46.5 x 200 mm depth
WEIGHT	1.7 kg

EN 54 EVACUATION SYSTEM ZS

Paging microphone for ZS-2000M system.

ZS-400MIC **NI**

FEATURES	<p>Paging microphone for public address and EN 54 voice alarm system . Emergency or normal manual warnings. Warnings to zones or groups. Zone monitoring. Intercom with other microphones. USB port for storage and audio file playback. Direct recording and playback of messages. Function buttons and 8 assignable buttons. Sample rate 44.1 kHz, 16 bit Configuration via PC control software. Local network (Ethernet) connection. Expandable with up to 8 x ZS-404EXTMIC or ZS-408EXTMIC. Connection of up to 250 microphones. You can control up to a maximum of 250 main units. POE or local power supply. EN 54-16 certificate.</p>
MICROPHONE	-44 dB ± 2dB
INPUTS	1 line 3.5mm TRS, 1 V RMS
OUTPUTS	1 line 3.5mm TRS, 1 V RMS
SIGNAL TO NOISE RATIO	>85 dB
TEMPERATURE RANGE	Operation: -10°C ~ 55°C Storage: -40°C to 70°C
HUMIDITY	<95%
POWER SUPPLY	POE or 24 V DC, 1 A, 11 W Adapter included
DIMENSIONS	Length of microphone 385 mm 200 x 46.5 x 200 mm depth
WEIGHT	1.7 kg



Digital power amplifier for public address and EN 54 voice alarm system.



ZS-1500

FEATURES	<p>Single channel 500 W digital power amplifier, 100 V and 70 V lines. In compliance with EN 54-16. Audio input and RJ-45 control for connection to the ZS-2000M control unit. General front indicators (power supply, battery and input signal) and status (temperature and overload). Monitoring by means of the ZS-2000 control unit</p>
POWER SUPPLY	100-240 V AC, 700 W and 24 V DC, 10 A
DIMENSIONS	483 x 92 x 425 mm depth. 2 U rack 19"
WEIGHT	10.4 kg



ZS-2250

FEATURES	Dual channel 250 W digital power amplifier, 100 V and 70 V lines. In compliance with EN 54-16. 2 audio inputs and RJ-45 control for connection to the ZS-2000M control unit. General front indicators (power supply, battery and input signal) and status (temperature and overload). Supervision using the ZS-2000M control unit.
POWER SUPPLY	100-240 V AC, 700 W and 24 V DC, 10 A
DIMENSIONS	483 x 92 x 425 mm depth. 2 U rack 19"
WEIGHT	11 kg



ZS-4125

FEATURES	4 channel 125 W digital power amplifier, 100 V and 70 V lines. In compliance with EN 54-16. 2 audio inputs and RJ-45 control for connection to the ZS-2000M control unit. General front indicators (power supply, battery and input signal) and status (temperature and overload). Supervision using the ZS-2000M control unit.
POWER SUPPLY	100-240 V AC, 700 W and 24 V DC, 10 A
DIMENSIONS	483 x 92 x 425 mm depth. 2 U rack 19"
WEIGHT	11.9 kg

EN 54 EVACUATION SYSTEM

ZS

Controlled power supply unit for evacuation system EN 54.



ZSA-200PS

FEATURES

Microprocessor-controlled power supply unit for evacuation system EN54.
 In compliance with EN54-4+A1+A2.
 Software for continuous monitoring of charge current, output voltage, battery resistance and internal temperature.
 Battery capacity: up to 270 Ah.
 System status LED indicators.
 M8 terminals for battery connection.
 USB port for communication.

OUTPUTS	6 main outputs (for amplifiers) 40 A, 24 V, euroblock 4 auxiliary outputs (for control devices) 5 A, 24 V, euroblock 200 A maximum in total 3 contact closures for remote fault indication (battery, AC power and power supply), euroblock
INPUTS	1 temperature sensor, euroblock 1 external device failure input, euroblock
PROTECTIONS	Short-circuit, overload, temperature and excessive discharge
POWER SUPPLY	230 V AC, 650 W max
DIMENSIONS	483 x 43 x 320 mm depth 1 U rack 19"
WEIGHT	4.9 Kg



BAT-1240



BAT-1255

AGM technology lead-acid batteries. Optimal for large evacuation systems.

BAT-1240

FEATURES

12 V 40 Ah lead-acid battery.
 AGM technology.
 Long service life.
 Maintenance free.
 Low self-discharge.

BAT-1255

12 V 55 Ah lead-acid battery.
 AGM technology.
 Long service life.
 Maintenance free.
 Low self-discharge.

CAPACITY	40 Ah (10 hr, 1.80 V/cell, 25°C)	55 Ah (10 hr, 1.80 V/cell, 25°C)
NUMBER OF CELLS	6	6
VOLTAGE	12 V DC	12 V DC
CHARGE VOLTAGE	13.6 to 13.8 V DC	13.6 to 13.8 V DC
MAXIMUM CHARGING CURRENT	12 A	16.5 A
MAXIMUM DISCHARGE CURRENT	400 A (5 s)	550 A (5 s)
EQUALISATION VOLTAGE	14.6 to 14.8 V DC	14.6 to 14.8 V DC
INTERNAL RESISTANCE	8 mΩ	6 mΩ
OPERATING TEMPERATURE RANGE	Discharge: -20° C to + 60° C Recharge: -0° C to + 50° C Storage: -20° C to + 60° C	Discharge: -20° C to + 60° C Recharge: -0° C to + 50° C Storage: -20° C to + 60° C
NONOPERATIONAL DISCHARGE	< 3% monthly at 25° C.	< 3% monthly at 25° C.
TERMINAL	F4/F11	F11/F15
DIMENSIONS	198 x 171 x 166 mm depth	229 x 216 x 138 mm depth
WEIGHT	12.4 Kg	16.9 Kg

AGM technology lead-acid batteries. Optimal for large evacuation systems.



BAT-1290



BAT-12120

	BAT-1290	BAT-12120
FEATURES	"Lead-acid battery 12 V 90 Ah. AGM VRLA technology. Long service life. Maintenance free. Low self-discharge."	"12 V 120 Ah lead-acid battery. AGM VRLA. High discharge. Long service life. Maintenance free. Low self-discharge."
CAPACITY	90 Ah (10 hr, 1.80 V / cell, 25 ° C) C3 69.8 Ah C5 80.4 Ah C10 90 Ah C20 95.2 Ah	"120 Ah (10 hr, 1.75 V/cell, 25°C) C3 89.1 Ah C5 100.5 Ah C10 114.4 Ah C20 120 Ah"
NUMBER OF CELLS	6	6
VOLTAGE	12 V DC	12 V DC
CHARGE VOLTAGE	"13.6 to 13.8 V DC Compensation -3 mV /°C/Cell"	"13.6 to 13.8 V DC Compensation -3 mV /°C/Cell"
MAXIMUM CHARGING CURRENT	27 A	36 A
MAXIMUM DISCHARGE CURRENT	900 A (5 s)	1200 A (5 s)
EQUALISATION VOLTAGE	14.6 to 14.8 V DC	14.6 to 14.8 V DC
INTERNAL RESISTANCE	5.2 mΩ	4 mΩ
OPERATING TEMPERATURE RANGE	"Discharge: -20° C to + 60° C Recharge: 0° C to + 50° C Storage: -20° C to + 60° C"	"Discharge: -20° C to + 60° C Recharge: 0° C to + 50° C Storage: -20° C to + 60° C"
NONOPERATIONAL DISCHARGE	"<3% monthly at 25° C Valve-regulated Lead Acid batteries (VRLA) can be stored for up to 6 months at 25°C. After this storage period, recharge is recommended. Please charge the battery before use."	"<3% monthly at 25° C Valve-regulated Lead Acid batteries (VRLA) can be stored for up to 6 months at 25°C. After this storage period, recharge is recommended. Please charge the battery before use."
TERMINAL	F12 (M8) / F15 (M6)	F12 (M8) / F5 (M8)
DIMENSIONS	306 x 210 x 168 mm depth	407 x 225 x 177 mm depth
WEIGHT	27.5 Kg	35 Kg

EN 54 EVACUATION SYSTEM

ZS

Control software for PA and EN 54 voice alarm system for medium sized and small installations.



ZS-2000S0-SP

Control software for PA and EN 54 voice alarm system for medium sized and small installations.
Up to 20 ZS-2000M control units can be managed and up to 20 audio channels can be generated.
Different user levels supported.
Visual management interface of system via maps.
Monitoring for all the system elements and fault detection.
Stores a register of events.
Security copy function for the system information.

ZS-2000S0-S

Control software for PA and EN 54 voice alarm system for large installations.
1 license for 1 PC server/client.
Up to 250 ZS-2000M control units can be managed and up to 60 audio channels can be generated.
Different user levels supported.
Visual management interface of system via maps.
Monitoring for all the system elements and fault detection.
Stores a register of events.
Security copy function for the system information.

ZS-2000S0-C

Control software for PA and EN 54 voice alarm system for large installations.
1 licence for 1 client PC.
Up to 250 ZS-2000M control units can be managed and up to 60 audio channels can be generated.
Different user levels supported.
Visual management interface of system via maps.
Monitoring for all the system elements and fault detection.
Stores a register of events.
Security copy function for the system information.

FEATURES

EN 54 LOUDSPEAKERS

EN 54 CEILING LOUDSPEAKERS

100V line transformer ceiling loudspeakers.

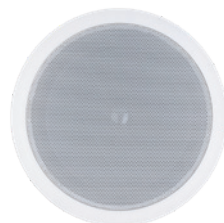
FONESTAR



EN 54

GAT-501-EN

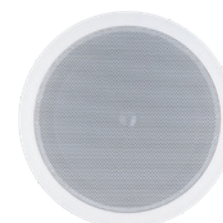
EN54 ceiling loudspeaker with 100 V line transformer, round grille and fireproof enclosure.



EN 54

GAT-601-EN

EN54 ceiling loudspeaker with 100 V line transformer, round grille and fireproof enclosure.



EN 54

GAT-801-EN

EN54 ceiling loudspeaker with 100 V line transformer, round grille and fireproof enclosure.

FEATURES	GAT-501-EN	GAT-601-EN	GAT-801-EN
REGULATION	Built in compliance with EN 54.	Built in compliance with EN 54.	Built in compliance with EN 54.
POWER	6 W RMS	6 W RMS	10 W RMS
SPEAKER	5"	6"	8"
RESPONSE	300-13,000 Hz	300-12,000 Hz	300-11,500 Hz
IMPEDANCE	6 W RMS@100 V (1,666 Ω) 3 W RMS@100 V (3,333 Ω)	6 W RMS@100 V (1,660 Ω) 3 W RMS@100 V (3,333 Ω)	10 W RMS@100 V (1,000 Ω) 5 W RMS@100 V (2,000 Ω)
SENSITIVITY	81.4 dB at 1 W/4 m	83.2 dB at 1 W/4 m	84.9 dB at 1 W/4 m
COVERAGE ANGLE	174°	171.5°	163.5°
MATERIAL	ABS and steel grille	ABS and steel grille	ABS and steel grille
COLOUR	White (RAL 9016)	White (RAL 9016)	White (RAL 9016)
DIMENSIONS	175 mm Ø x 70 mm depth	186 mm Ø x 90 mm depth	226 mm Ø x 106 mm depth
HOLE	155 mm Ø	168 mm Ø	208 mm Ø
WEIGHT	0.65 kg	0.9 kg	1.1 kg
	Quick installation system	Quick installation system	Quick installation system

GAT-326-EN

EN 54 ceiling loudspeaker with 100 V line transformer, round grille and fireproof enclosure. Suitable for installation in humid environments, clean rooms, food processing facilities, laboratories, operating theatres and similar spaces.

FEATURES	EN 54 ceiling loudspeaker with 100 V line transformer, round grille and fireproof enclosure. Suitable for installation in humid environments, clean rooms, food processing facilities, laboratories, operating theatres and similar spaces.
REGULATION	Built in compliance with EN 54.
POWER	6 W RMS
SPEAKER	3 ½"
RESPONSE	200-15,000 Hz
IMPEDANCE	High Z 100 V line : 1,666 Ω (6 W), 3,333 Ω (3 W), 5,714 Ω (1.75 W)
SENSITIVITY	77 dB at 1 W/4 m
COVERAGE ANGLE	180°
PROTECTION	IP-65 Resistant to saline environments (IEC 60068-2-11) Resistant to harsh environments: acid, alkaline, chlorine and other chemicals (IEC 60068-2-60)
TEMPERATURE RANGE	-25°C to 70°C
MATERIAL	ABS and aluminum grille
COLOUR	White (RAL 9016)
DIMENSIONS	140 mm Ø x 150 mm depth
HOLE	125 mm Ø
WEIGHT	0.98 kg
	Quick installation system

EN 54



GAT-98S-EN

FEATURES	EN 54 surface ceiling loudspeaker with 100 V line transformer, round grille and fireproof enclosure.
REGULATION	EN 54-24 certificate
POWER	6 W RMS
SPEAKER	6"
RESPONSE	200-15,000 Hz
IMPEDANCE	High Z 100 V line : 1,666 Ω (6 W), 3,333 Ω (3 W), 6,666 Ω (1.5 W), 13,333 Ω (0.75 W), 40,000 Ω (0.25 W)
SENSITIVITY	94 dB at 1 W/1 m
COVERAGE ANGLE	170°
MATERIAL	Steel
COLOUR	White (RAL 9016)
DIMENSIONS	170 mm Ø x 75 mm depth
WEIGHT	1 kg
ACCESSORIES	Surface installation system



EN 54 LOUDSPEAKERS

EN 54 SURFACE LOUDSPEAKER

Surface speaker with 100 V line transformer and low impedance, in compliance with EN 54

SONORA-5TN-EN **NI**

FEATURES	Loudspeaker for voice alarm systems EN 54. Low-impedance loudspeaker with 100 V line transformer. Prepared for outdoor use, waterproof and anti-corrosive materials.
INTENDED USE	Loudspeaker for voice alarm systems
REGULATION	EN 54-24 certified Fire detection and fire alarm systems - Part 24: components of voice alarm systems - Loudspeakers EN 54-24: 2008
POWER	80 W max., 40 W RMS
SPEAKERS	1 x 5 1/4" woofer 1 x 1" tweeter
RESPONSE	80-20,000 Hz
IMPEDANCE	40 W RMS @ 100 V (250 Ω) 20 W RMS @ 100 V (500 Ω) 10 W RMS @ 100 V (1,000 Ω) 5 W RMS @ 100 V (2,000 Ω) Low Z: 8 Ω
SENSITIVITY	86 dB @ 1 W/1 m 74 dB @ 1 W/4 m
MAXIMUM SOUND PRESSURE	99 dB @ max. W/1 m 89 dB @ max. W/4 m
COVERAGE ANGLE	H/V (-6 dB): 200°/200°@500Hz, 135°/135°@1kHz, 100°/120°@2kHz, 60°/80°@4kHz
PROTECTIONS	Type B (EN 54-24) IP-66 in compliance with EN 60529 IEC 60068-2-11 Environmental tests (Salt mist)
MATERIAL	ABS 5VB Aluminium grille Stainless steel screws
SWITCHER	W selector at high Z and low Z
CONNECTORS	Euroblock for cable 0.25 - 2.5 mm ² cross section
TEMPERATURE RANGE	-10°C to 60°C
COLOUR	Black (RAL 9004)
DIMENSIONS	162 x 262 x 147 mm depth
WEIGHT	2.2 kg
ACCESSORIES	Full motion adjustable fixing mount ± 60° Steel safety cable



EN 54

IP-66



IP-66
SALINE
ENVIRONMENTS



EN 54 LOUDSPEAKERS EN 54 SOUND PROJECTORS

Sound projectors with diffuser and EN54 certificate. Anti-fire components, ceramic connectors, flame resistant material cables and thermal fuse.

PF-53T-EN

FEATURES	EN 54 certified sound projector with 100 V line transformer.
REGULATION	EN 54-24 certificate
POWER	20 W RMS
SPEAKER	5" double cone Hi-Fi
RESPONSE	130-20,000 Hz
IMPEDANCE	20 W RMS@100 V (500 Ω) 10 W RMS@100 V (1,000 Ω) 5 W RMS@100 V (2,000 Ω)
SENSITIVITY	80 dB at 1 W/4 m
SOUND PRESSURE	103 dB at max power
COVERAGE ANGLE	90° at 4 kHz
PROTECTIONS	IP-66
MATERIAL	Steel with metal grid, ceramic connectors and thermal fuse Double cable entry and exit hole
COLOUR	White (RAL 9010)
DIMENSIONS	146 mm Ø x 207 mm depth
WEIGHT	2.5 kg



EN 54

IP-66



EN 54

IP-66



PF-54TD-EN

FEATURES	EN 54 bidirectional sound projector with 100 V line transformer.
REGULATION	EN 54-24 certificate
POWER	20 W RMS
SPEAKER	2 x 5" double cone Hi-Fi
RESPONSE	130-20,000 Hz
IMPEDANCE	High Z 100 V line : 500 Ω (20 W) 1,000 Ω (10 W) 2,000 Ω (5 W)
SENSITIVITY	89 dB at 1 W/1 m
SOUND PRESSURE	101 dB at max power
COVERAGE ANGLE	130° at 1 kHz
PROTECTIONS	IP-66
MATERIAL	Aluminium with metal grid, ceramic connectors and thermal fuse Double cable entry and exit hole
COLOUR	White (RAL 9010)
DIMENSIONS	146 mm Ø x 186 mm depth
WEIGHT	3.3 kg

EN54 LOUDSPEAKERS

EN 54 SOUND PROJECTORS

Sound projectors with diffuser and EN54 certificate. Anti-fire components, ceramic connectors, flame resistant material cables and thermal fuse.

PF-31T-EN

FEATURES	EN 54 sound projector with diffuser, 100 V line transformer and fireproof housing.
REGULATION	EN 54-24 certificate
POWER	30 W RMS
SPEAKERS	1 x 5" woofer 1 x tweeter 2 ½"
RESPONSE	120-20,000 Hz
IMPEDANCE	30 W RMS@100 V (333 Ω) 15 W RMS@100 V (667 Ω) 7.5 W RMS@100 V (1,333 Ω) 3.75 W RMS@100 V (2,667 Ω)
SENSITIVITY	85 dB at 1 W/4 m
SOUND PRESSURE	111 dB at max power
COVERAGE ANGLE	90° H x 140° V at 4 kHz
PROTECTIONS	IP-66
MATERIAL	ABS UL94V0, ceramic connectors and thermal fuse
COLOUR	Grey (RAL 7035)
DIMENSIONS	315 x 215 x 355 mm
WEIGHT	5 kg
ACCESSORIES	Adjustable fixing mount



EN 54 LOUDSPEAKERS

EN 54 HORN LOUDSPEAKERS

Horn loudspeaker in compliance with EN 54. Highly resistant to knocks and adverse weather conditions. High quality and excellent frequency response for professional indoor and outdoor public address installations.

FE-2010T-EN

FEATURES	100 V line transformer EN 54 horn loudspeaker
REGULATION	EN 54-24 certificate
POWER	30 W RMS
RESPONSE	340-9,000 Hz
IMPEDANCE	High Z 100 V line : 333 Ω (30 W) 667 Ω (15 W) 1,333 Ω (7.5 W) 2,667 Ω (3.75 W)
SENSITIVITY	108 dB at 1 W/1 m
COVERAGE ANGLE	120° at 1 kHz
PROTECTIONS	IP-66
MATERIAL	ABS UL94V0 self-extinguishing, ceramic connectors and thermal fuse Double cable entry and exit hole Stainless steel mount.
COLOUR	Grey (RAL 7035)
DIMENSIONS	212 mm Ø x 285 mm depth
WEIGHT	2.1 kg



EN 54 LOUDSPEAKERS

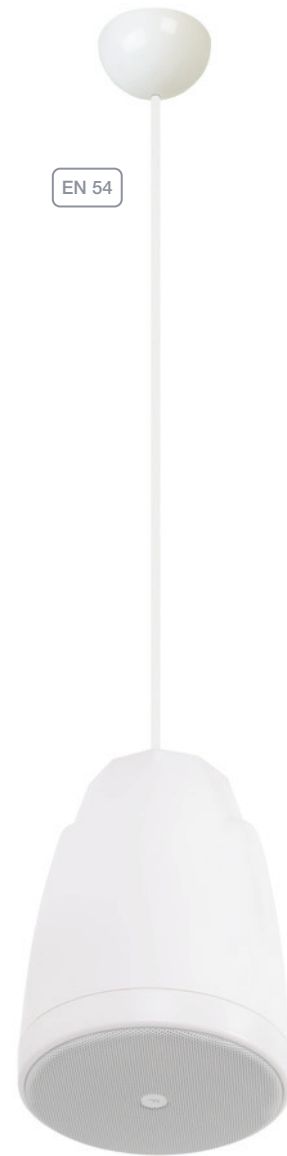
EN 54 SPHERES

FONESTAR

Hanging speaker with 100 V line transformer and low impedance certified EN 54

EF-322-EN **NI**

FEATURES	Hanging loudspeaker for voice alarm systems EN 54 100 V line transformer and low impedance. 5 m installation cable. Modern design.
INTENDED USE	Loudspeaker for voice alarm systems
REGULATION	EN 54-24 certified Fire detection and fire alarm systems - Part 24: components of voice alarm systems - Loudspeakers EN 54-24: 2008
POWER	20 W RMS
SPEAKER	5" full-range, paper diaphragm
RESPONSE	130-20,000 Hz (-10 dB)
IMPEDANCE	20 W RMS @ 100 V/70 V (500 Ω/250 Ω) 10 W RMS @ 100 V/70 V (1.000 Ω/500 Ω) 5 W RMS @ 100 V/70 V (2.000 Ω/1.000 Ω) Low Z: 6 Ω
SENSITIVITY	89 dB @ 1 W/1 m, 100 Hz - 10 kHz Pink Noise, in compliance with EN 54-24 77 dB @ 1 W/4m, 100 Hz - 10 kHz Pink Noise, in compliance with EN 54-24
MAXIMUM SOUND PRESSURE	102 dB @ max. W/1m, 100 Hz - 10 kHz Pink Noise, in compliance with EN 54-24 89 dB @ max. W/4m, 100 Hz - 10 kHz Pink Noise, in compliance with EN 54-24
COVERAGE ANGLE	H/V (-6 dB): 360°@500Hz, 190°@1kHz, 100°@2kHz, 65°@4kHz
PROTECTIONS	Type A (according to EN 54-24: IP-21 test)
MATERIAL	ABS+PC Steel grille with anti-oxidation surface treatment and painted Junction box for 6.5 mm outer diameter round cable.
CONNECTORS	Junction box for 6.5 mm outer diameter cable. Connection terminals for cable cross-section 0.25 - 0.75 mm ² .
TEMPERATURE RANGE	-10°C to +55°C
COLOUR	White
DIMENSIONS	154 mm Ø x 222 mm height 5 m installation cable
WEIGHT	2 kg





ASSIST SYSTEM

PATIENT-NURSE MONITORING SYSTEM

It allows effective management of communication between the patient and the nursing control by means of VoIP calls and luminous alerts. It has been designed with the needs of social and healthcare centres in mind in order to adapt to each centre. It is a versatile and adaptable system that can be adjusted to the specific characteristics of each centre.

PoE and Network Installation

- **PoE**

Both the nursing panel and the room control units are powered by PoE, significantly simplifying installation.

- **PURE IP**

It is a purely IP system, which greatly simplifies its installation as it can make use of the existing data network. This allows functions such as monitoring the correct functioning of the equipment in real time or the remote updating of the equipment.

- **INTEGRABLE / FLEXIBLE SOFTWARE**

An integration consists of collecting data from different systems and displaying it in a single application to facilitate the management of any complex system. ASSIST registers all the events that occur in the system [room entries and exits, calls, warnings, etc.] and makes all this information available to third parties, allowing it to be integrated with any software on the market.

For further information please contact us.



Visual interface with touch screens



Simple and intuitive menu



Wanderer control increases the security of this type of patients



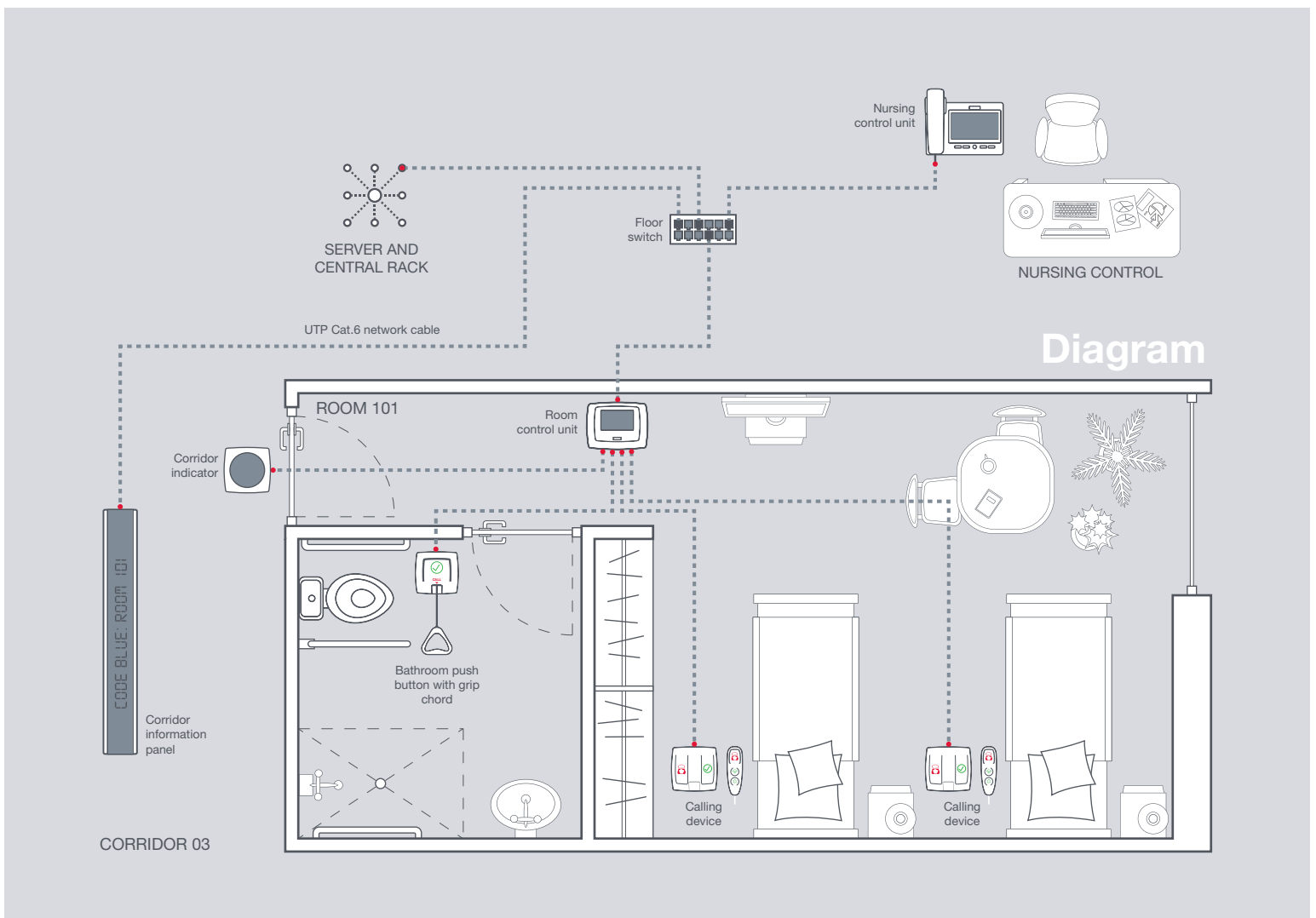
The warning fall detection, minimises attention time when falls happen



Modern and elegant finish



The laundry management system allows classify and control the garments of each user



Diagram

ASSIST SYSTEM FEATURES

> PEACE OF MIND AND SECURITY FOR THE PATIENT/RESIDENT

Instant communication with nursing control.
 Simple and robust call controls located in rooms and bathrooms.
 Acoustic and luminous warnings in the room control panel, corridors and control stations.
 Call to the control station, to a mobile or cordless phone.
 Generation of warning report for each patient.
 The colour of the light outside each room is customisable and varies according to the type of call made.

> COST AND TIME SAVINGS:

Simple installation, a single cable to each element.
 Compatible with both new and existing installations.
 Quick configuration
 Competitive price for all types of installations.
 Simple and intuitive menus.

> INCREASED EFFICIENCY IN THE WORK OF THE CENTRE'S STAFF

Registration of tasks by means of a personal card.
 Efficient management of alerts via touch screen in each room.
 Optimisation of resources, notification of new calls in the room being attended.
 Detailed report of the tasks carried out by each worker.
 Intuitive and visual use.

> SYSTEM ADAPTABLE TO EACH INSTALLATION

Versatile and scalable as the centre grows and requires new equipment.
 Variety of devices according to the needs of the centre.
 Outdoor signage lamp in each room with customisable colours to increase the efficiency of the service.
 Configuration of call control buttons at the centre's request.
 Integration with telephone switchboard through a VoIP/SIP connection.

> FLEXIBLE SOFTWARE, TAILORED TO THE NEEDS OF EACH CENTRE

Simple installation, a single cable to each element.
 Compatible with both new and existing installations.
 Quick configuration
 Competitive price for all types of installations.
 Simple and intuitive menus.



Want to know more?
 Watch the video here.



PATIENT-NURSE SYSTEM

ASSIST

Required elements for the patient-nurse control system: push buttons, bathroom handle and corridor light.



ASSIST-IP1200C

FEATURES

Wall call button to call healthcare staff.
 Pear type handset connection.
 Allows the patient to make a call via the call button or pear-type handset.
 Cancel button to delete the call.
 Backlit buttons.
 PoE power supply.
 Surface or flush mounting.
 For square universal standard case.
 Distance between screws: 60 mm.

INPUTS	RJ-45 for ASSIST-IP1200H and ASSIST-IP1200HTV pear type push button
OUTPUTS	RJ-45 for direct connection to the VoIP control room ASSIST-VOIP1200P5 or ASSIST-VOIP1200P10
COMMUNICATION	RS-485
BUZZER	Tone 2.400 Hz 65 dB
MATERIAL	High quality materials, PC-ABS fireproof and flame retardant
TEMPERATURE RANGE	-10° C to +60° C. Recommended humidity 30%-80%
COLOUR	White (RAL 9016)
POWER SUPPLY	PoE
DIMENSIONS	Exterior: 80 x 80 x 35 mm depth Assembly: 54 x 50 x 18 mm depth
WEIGHT	0.1 kg



ASSIST-IP1200W

FEATURES

WC pull-cord to call healthcare staff and cancel button.
 Emergency call priority over all other elements in the installation.
 Backlit buttons.
 PoE power supply.
 For square universal standard case.
 Distance between screws: 60 mm.

OUTPUT	RJ-45 for direct connection to the IP control room ASSIST-VOIP1200P5 or ASSIST-VOIP1200P10
COMMUNICATION	RS-485
BUZZER	Tone 2.400 Hz 65 dB
MATERIAL	High quality materials, PC-ABS fireproof and flame retardant
MAXIMUM LOAD OF pull-cord	30 kg
TEMPERATURE RANGE	-10° C to +60° C. Recommended humidity 30%-80%
COLOUR	Panel: white (RAL 9016) Handle: orange Cord: red
POWER SUPPLY	PoE
DIMENSIONS	Exterior: 80 x 80 x 35 mm depth Assembly: 54 x 50 x 18 mm depth Cord length: 1 m
WEIGHT	0.1 kg

ASSIST-IP1200H

FEATURES	Basic pear type push button Healthcare staff call push button and room light control button. Connection to the ASSIST-IP1200C or ASSIST-IP1200CBLUE wall call buttons by means of an extendible spiral cable. Backlit buttons. PoE power supply.
CONNECTION	1.5 m spiral cable with RJ-45 connector
COMMUNICATION	RS-485
MATERIAL	High quality materials, PC-ABS fireproof and flame retardant
TEMPERATURE RANGE	-10° C to +60° C. Recommended humidity 30%-80%
COLOUR	White (RAL 9016)
POWER SUPPLY	PoE
DIMENSIONS	45 x 140 x 20 mm depth
WEIGHT	0.1 kg
ACCESSORIES	Wall Mount



ASSIST-IP1200L

FEATURES	Corridor light. Semi-spherical, discreet and modern design. High efficiency, low power RGB LEDs. PoE power supply. Surface or flush mounting. For square universal standard case. Distance between screws: 60 mm.
INPUT	RJ-45 for direct connection to the IP control room ASSIST-VOIP1200P5 or ASSIST-VOIP1200P10
MATERIAL	High quality materials, PC-ABS fireproof and flame retardant
TEMPERATURE RANGE	-10° C to +60° C. Recommended humidity 30%-80%
LED COLOURS	Red, green and blue Multiple colours configurable via software
COLOUR	White (RAL 9016)
POWER SUPPLY	PoE
DIMENSIONS	84 x 84 x 61 mm depth.
WEIGHT	0.1 kg
ACCESSORIES	Surface-mounted ABS case



PATIENT-NURSE SYSTEM ASSIST

VOIP room control unit with touch screen. Management of patient calls by the healthcare staff.



ASSIST-VOIP1200P5

FEATURES

VoIP room control unit with 5" touch screen, intercom and RFID card reader.
Management of patient calls by the healthcare staff.
Create emergency codes: Code blue code, white, etc.
Request for assistance from the rest of the healthcare staff.
Setting the call elements of the room.
Connection of room elements, up to 8 call units and 1 ASSIST-IP1200L light control unit.
TCP/IP data network connection.
Full-duplex communication with SIP protocol.
PoE power supply.
Surface or flush mounting.

INPUTS	1 x RJ-45 for Ethernet data network 8 x RJ-45 for call units and ASSIST-IP1200LCM light control modules
OUTPUTS	1 x RJ-45 for ASSIST-1200L corridor light
CARD READER	RFID MIFARE CLASSIC
DISPLAY	5" TFT touch screen 800 x 480 resolution
OPERATING SYSTEM	Linux 4
MEMORY	64 MB RAM 128 MB ROM
COMMUNICATION	TCP/IP, UDP, HTTP, RS-485
MATERIAL	ABS fireproof and flame retardant
TEMPERATURE RANGE	-10° C to +60° C. Recommended humidity 30%-80%
COLOUR	White (RAL 9016)
POWER SUPPLY	PoE
DIMENSIONS	212 x 165 x 50 mm depth
WEIGHT	0.5 kg



ASSIST-VOIP1200P10

VoIP room control unit with 10" touch screen, intercom and RFID card reader.
Management of patient calls by the healthcare staff.
Create emergency codes: Code blue code, white, etc.
Request for assistance from the rest of the healthcare staff.
Setting the call elements of the room.
Connection of room elements, up to 3 call units and 1 ASSIST-IP1200L light control unit.
TCP/IP data network connection.
Full-duplex communication with SIP protocol.
PoE power supply.
Surface or flush mounting.

INPUTS	1 x RJ-45 for Ethernet data network 3 x RJ-45 for call units and ASSIST-IP1200LCM light control modules
OUTPUTS	1 x RJ-45 for ASSIST-1200L corridor light
CARD READER	RFID MIFARE Classic
DISPLAY	10" IPS colour touch screen 1024 x 768 resolution
OPERATING SYSTEM	Android based on Linux 4
MEMORY	2 GB RAM 8 GB ROM
COMMUNICATION	TCP/IP, UDP, HTTP, RS-485, SIP
MATERIAL	ABS fireproof and flame retardant
TEMPERATURE RANGE	-10° C to +60° C. Recommended humidity 30%-80%
COLOUR	White (RAL 9010)
POWER SUPPLY	PoE
DIMENSIONS	265 x 210 x 40 mm depth.
WEIGHT	0.5 kg



ASSIST-IP1200P5M

FEATURES

Metal installation box for embedding the 5" screen room control unit.

DIMENSIONS	190 x 142 x 45 mm depth
WEIGHT	0.3 kg
ACCESSORIES	Accessories for plasterboard wall installation



ASSIST-IP1200P5MS

FEATURES

Connection cover for 5" screen room control unit.

WEIGHT	0.03 kg
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VOIP phones with touch screen for communication with the central rooms.

ASSIST-VOIP1200PH7

FEATURES	VOIP phone with 7" touch screen. Hands-free function. Monitoring of room conditions. Real-time management of notifications. Telephone communication with patients. Enables creation of authorization levels for staff. TCP/IP data network connection. Full-duplex communication with SIP protocol. PoE power supply.
INPUTS	1 x RJ-9 for hands-free headsets
OUTPUTS	HDMI
DISPLAY	7" TFT capacitive touch screen 800 x 480 resolution
OPERATING SYSTEM	Android
MEMORY	1 GB DD3 RAM 4 GB ROM
TEMPERATURE RANGE	0°C to + 40°C Recommended humidity 10%-65%
COMMUNICATION	TCP/IP, UDP, TLS
POWER SUPPLY	PoE
DIMENSIONS	255 x 85 x 200 mm depth
WEIGHT	1 kg
ACCESSORIES	Wall Mount



Miscellaneous elements for the patient-nurse monitoring system.

ASSIST-IP1200RFID

FEATURES	MiFare RFID cards. Single-person use for healthcare staff. Identification, permission verification, reminder management and task logging.
FREQUENCY	13.56 MHz
MATERIAL	PVC
PROTOCOL	ISO14443A
TEMPERATURE RANGE	-30°C to +50°C
DIMENSIONS	86.6 x 54 x 0.9 mm



PATIENT-NURSE SYSTEM

ASSIST

Miscellaneous elements for the patient-nurse monitoring system.



ON REQUEST

ASSIST-IP1200CBLUE

FEATURES

Wall call button to call healthcare staff.
Pear type handset connection.
Allows you to give a blue code alarm or notification to the healthcare staff using the call button or the pear-type handset.
Backlit buttons.
Surface or flush mounting.
For square universal standard case.
Distance between screws: 60 mm.

INPUTS	RJ-45 for pear-type handset
OUTPUTS	RJ-45 for direct connection to the IP control room ASSIST-VOIP1200P5 or ASSIST-VOIP1200P10
COMMUNICATION	RS-485
BUZZER	Tone 2.400 Hz 65 dB
MATERIAL	ABS fireproof and flame retardant
TEMPERATURE RANGE	-10° C to +60° C. Recommended humidity 30%-80%
COLOUR	White (RAL 9010)
DIMENSIONS	Exterior: 80 x 80 x 35 mm depth Assembly: 55 x 55 x 20 mm depth
WEIGHT	0.1 kg



ASSIST-IP1200HTV

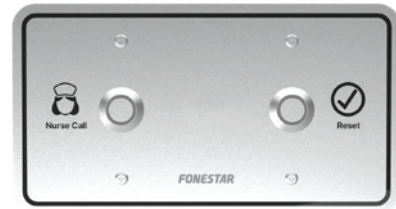
FEATURES

Basic pear-type handset with TV control.
Healthcare staff call button, room light control and TV control (change channels and volume control).
Connection to the ASSIST-IP1200C or ASSIST-IP1200CBLUE wall call buttons by means of an extendible spiral cable.
Backlit buttons.
PoE power supply.
With hook for hanging.

CONNECTION	2.5 m cable with RJ-45 connector
COMMUNICATION	RS-485
MATERIAL	High quality materials, PC-ABS fireproof and flame retardant
TEMPERATURE RANGE	-10° C to +60° C. Recommended humidity 30%-80%
COLOUR	White (RAL 9016)
POWER SUPPLY	PoE
DIMENSIONS	58 x 140 x 20 mm depth
WEIGHT	0.1 kg

ASSIST-IP1200CVK

FEATURES	Anti-vandal wall call button to call healthcare staff. Allows the patient to make a call via the call button or pear-type handset. Cancel button to delete the call. Backlit buttons. Flush-mounted installation.
INPUTS	RJ-45
OUTPUTS	RJ-45
COMMUNICATION	RS-485
BUZZER	Tone 2.400 Hz 65 dB
MATERIAL	Stainless steel
TEMPERATURE RANGE	-10° C to + 60° C. Recommended humidity 30%-80%
DIMENSIONS	Exterior: 165 x 90 x 3 mm depth
WEIGHT	76 g



ON REQUEST

ASSIST-IP1200LBY

FEATURES	Corridor light with entrance/exit. Cascade connection of several ASSIST-1200LBY lamps. Semi-spherical, discreet and modern design. High efficiency, low power RGB LEDs. Surface or flush mounting. For square universal standard case. Distance between screws: 60 mm.
INPUT	RJ-45
OUTPUT	RJ-45
MATERIAL	ABS fireproof and flame retardant
TEMPERATURE RANGE	-10° C to +60° C. Recommended humidity 30%-80%
LED COLOURS	Red, green and blue Multiple colours configurable via software
COLOUR	White (RAL 9010)
POWER SUPPLY	5 V DC
DIMENSIONS	80 x 80 x 33 mm depth
WEIGHT	0.1 kg
ACCESSORIES	Surface-mounted ABS case



ON REQUEST

ASSIST-IP1200LCM

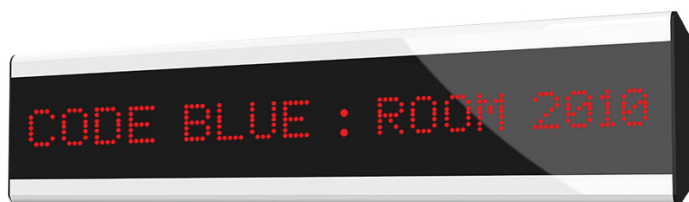
FEATURES	Room light control module. Unit for integration between the pear type push button controller and the room lighting control system. One control module is required for each push button ASSIST-IP1200H or ASSIST-IP1200HTV.
INPUT	RJ-45
OUTPUTS	RJ-45 and 2 control relays (NA and NC)
COMMUNICATION	RS-485
TEMPERATURE RANGE	-20° C to +60° C. Recommended humidity 30%-80%
COLOUR	Grey
DIMENSIONS	95 x 50 x 31 mm depth.
WEIGHT	0.1 kg



PATIENT-NURSE SYSTEM

ASSIST

Call Indicator panel. Displays, as text, the information of the room number which called the healthcare staff. Emits sound alerts.



ASSIST-IP1200TEXT

FEATURES	Call Indicator panel. Displays, as text, the information of the room number which called the healthcare staff. Emits sound alerts.
INPUT	RJ-45
DISPLAY	12 segments
SOUND	60 dB
PROTECTIONS	IP-50
TEMPERATURE RANGE	-10° C to +60° C. Recommended humidity 30%-80%
COLOUR	Grey
POWER SUPPLY	230 V AC
DIMENSIONS	795 x 100 x 60 mm depth
WEIGHT	1.9 kg
ACCESSORIES	Fixing mount

PATIENT-NURSE SYSTEM

ASSIST

Servers, software and management licences for the patient-nurse monitoring system.



ASSIST-IP0050SERVER

FEATURES

Server and management software for control of the ASSIST patient nurse call system.
Use in facilities from 1 to 50 rooms.
Linux based.
Sturdy and reliable infrastructure (Modbus, KNX, analogue inputs/ outputs, TCP connections).
Incident notification and logging of modules connected to the system.
TCP/IP data network connection.

INPUTS	HDMI Headphones
OUTPUTS	1 x RJ-45 for Ethernet data network 1 x D-SUB 9 male for RS-232 communication
OPERATING SYSTEM	Linux
MEMORY	64 GB RAM 16 GB ROM
COMMUNICATION	TCP/IP, RS-232
POWER SUPPLY	230 V AC, 25 W
DIMENSIONS	483 x 44 x 152 mm depth. 1 U rack 19"
WEIGHT	1.3 kg

ASSIST-IP0150SERVER

Server and management software for control of the ASSIST patient nurse call system.
Use in facilities from 50 to 150 rooms.
Linux based.
Sturdy and reliable infrastructure (Modbus, KNX, analogue inputs/ outputs, TCP connections).
Incident notification and logging of modules connected to the system.
TCP/IP data network connection.

INPUTS	HDMI Headphones
OUTPUTS	1 x RJ-45 for Ethernet data network 1 x D-SUB 9 male for RS-232 communication
OPERATING SYSTEM	Linux
MEMORY	64 GB RAM 16 GB ROM
COMMUNICATION	TCP/IP, RS-232
POWER SUPPLY	230 V AC, 25 W
DIMENSIONS	483 x 44 x 152 mm depth. 1 U rack 19"
WEIGHT	1.3 kg

PATIENT-NURSE SYSTEM ASSIST

Management smartphone

FONESTAR

ASSIST-IP0030SERVER

FEATURES Server and management software from 1 to 30 rooms.

ASSIST-IP0250SERVER

FEATURES Server and management software from 150 to 250 rooms.

ASSIST-IP0500SERVER

FEATURES Server and management software from 250 to 500 rooms.

ASSIST-IP1000SERVER

FEATURES Server and management software from 500 to 1000 rooms.

ASSIST-IP1200LIC5

FEATURES Licences for smartphone app. 5 license pack.

ASSIST-IP1200LIC10

FEATURES Licences for smartphone app. 10 license pack.

ASSIST-IP1200LIC50

FEATURES Licences for smartphone app. 50 license pack.

ASSIST-IP1200LIC100

FEATURES Licences for smartphone app. 100 license pack.

ASSIST-IP1200MOTV

FEATURES App license for monitoring and call visualisation on large-format TV.

ASSIST-IP1200PHONE

FEATURES Ultra-resistant smartphone

ON REQUEST



ON REQUEST

PUBLIC ADDRESS OVER IP SYSTEM

AIP



AIP

IP PUBLIC ADDRESS SOLUTION FOR ALL TYPES AND SIZES OF INSTALLATIONS

Distributed [serverless] system based on proprietary HYDRA protocol that manages background music channels, scheduled and instant messages, events triggered by contact closure/opening, VoIP and whose players support SIP protocol.

Plug and play system with auto-discovery service based on communications and multicast audio channels. In case of filtered TCP/IP or VLAN networks, multicast and IGMP connections shall be

allowed bidirectionally.

There is no limit to the number of devices, regardless of type, and channels. 100% scalable solution.

Free AIP-Go software for control and creation of all types of AIP-Go audios.

Minimum latency between devices of 85 mS.

SYSTEM DEVICES:

PLAYERS

- **AIP PLAYER** Player
- **AIP-3010** Player
- **SONORA AIP** Self-powered loudspeaker
- **SONORA AIP EX** Self-powered loudspeaker

CHANNEL GENERATORS

- **AIP-Go** Windows programme
- **AIP STREAMER** Transmitter
- **AIP-4010** Transmitter
- **AIP GATE:** Autonomous and programmable generator of background music channels, messages and events with webserver app for full system management from any web browser.
- **AIP-1020** Microphone

PLAYERS

- **AIP IO** Sensors and relays
- **AIP-SPL** Sound level meter

OUTSTANDING FUNCTIONALITIES:

- Intuitive and user-friendly interfaces. Minimal start-up.
- No special network infrastructure is required and the system can coexist with the rest of the usual devices in a TCP/IP network.
- No associated licenses and no limit on the number of devices or channels.
- Background music channels, scheduled and instant messages, events triggered by closing/opening of contacts and VoIP natively and via SIP protocol.
- Message scheduling limited by dates, days of the week and time of day with the possibility of generating repetitive cycles.
- Contact closure events in pulse mode [event duration by audio track duration or configurable time] or level [active event during contact closure or opening].
- Fully automatic switching between channel types and channel recall.
- Audio channels configurable in stereo or mono mode [via mono submix] and in 3 qualities.
- Low bandwidth audio channels [128 kbps for CD quality stereo channels] and minimum communications bandwidth. Audio channels have the same bandwidth regardless of the number of players playing it.
- Detection of disconnected device in less than 30 seconds.
- Different levels of volume control independently for each player:
 - General volume.
 - Specific volume per channel type.
 - Volume set from channel generator.
 - Automatic volume by means of AIP-SPL sound level meter to ensure intelligibility in installations with variable ambient noise.
- Scenes: Background music, channel and volume changes in players programmable by time.
- Generation of background music channels via PC audio capture.
- List and map views of devices and channels by means of installation plans.
- Device updates via TCP/IP network or USB.
- Full control over current channels on devices.
- Feedback on AIP-1020 microphones about occupied zones with native VoIP or SIP channels.

LEVELS OF INTEGRATION:

- Basic integration: AIP STREAMER and/or AIP-4010 transmitters capture audio from another system and convert it into a background music channel or event audio, as an alarm, after closing or opening contacts.
- Medium integration: The players have all the features of the system and at the same time act as SIP telephone extensions.
- Professional integration for engineering companies and integrators:
 - SDK [Software Development Kit] in .NET or C++ for Windows OS.
 - RESTful API via AIP GATE device.

AIP SYSTEM

POWERED BY HIDRA PROTOCOL
Amplification + Zones



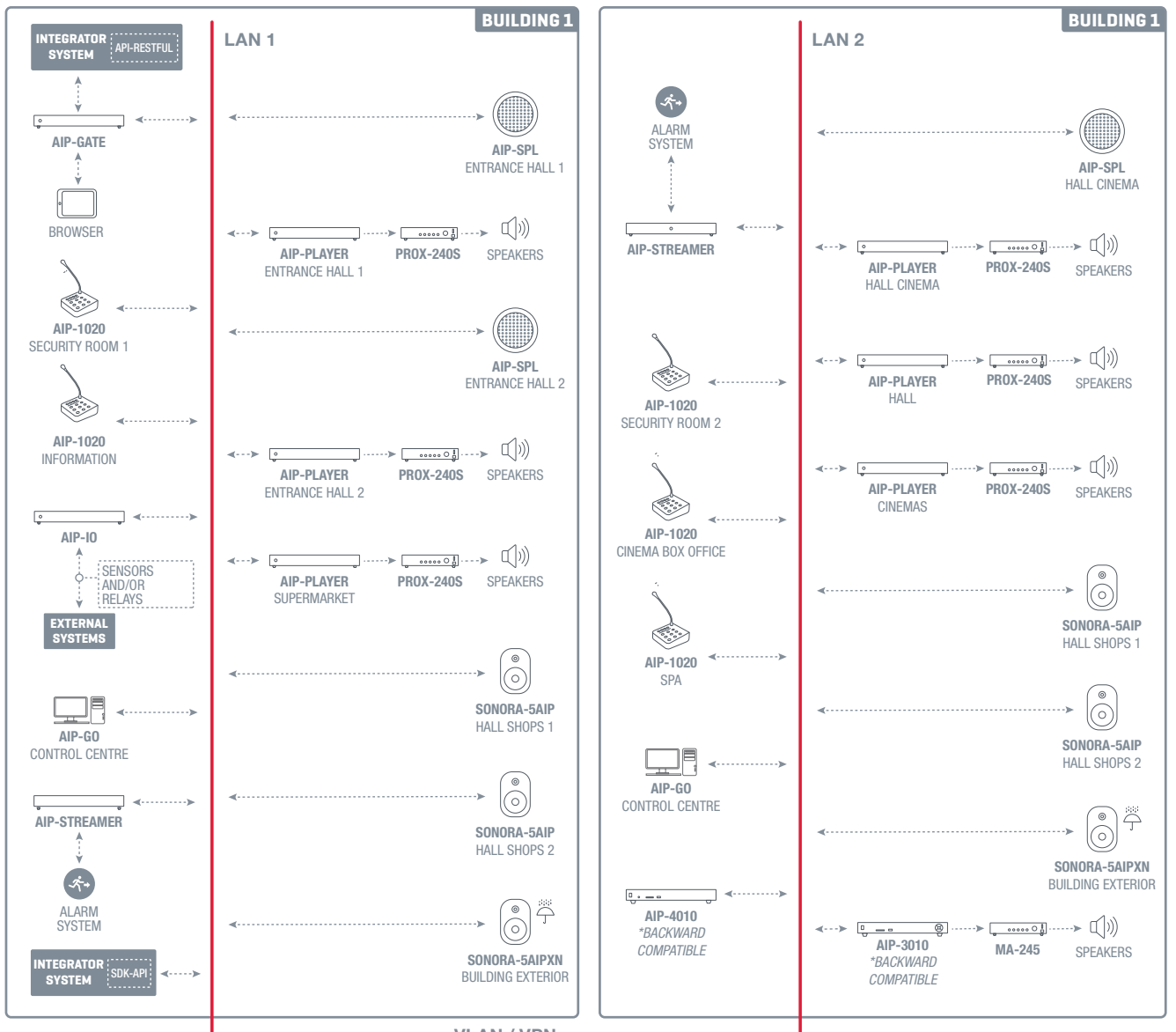
Hotels, Shopping Centres, Sports Centres, Transport Stations, etc.



HIDRA PROTOCOL



LARGE INSTALLATION / SHOPPING CENTRE



PUBLIC ADDRESS OVER IP SYSTEM

AIP

AIP system devices: IP audio player and SIP client, IP audio transmitter, audio channel scheduler, input and output relays, zone microphone and sensor for AIP system.



AIP-PLAYER

FEATURES	IP audio player and SIP client. Allows streaming audio reception via multicast via local area network (LAN). Remote audio channel selection and configuration via PC. General purpose isolated inputs and outputs. Remote update via PC software or locally via USB.
INPUTS	1 x 10/100 Base T ethernet, RJ-45 1 programmable isolated input for contact closure event activation, euroblock USB port for software updating.
OUTPUTS	1 aux line, 2 x RCA 2 Vrms 1 balanced stereo line, euroblock 4 Vrms 1 programmable isolated output and contact closure, euroblock
POWER SUPPLY	100-240 V AC, 10 W
DIMENSIONS	330 x 45 x 197 mm depth. 1 U 19" rack
WEIGHT	1.6 kg
ACCESSORIES	19" rack mount brackets
SOFTWARE	PC software with automatic AIP series device detection Creation of audio channels for distribution Remote selection of audio channel on each player Remote adjustment of configuration parameters Background music, instant and scheduled messages, events and voice Firmware update

AIP-STREAMER

FEATURES	IP audio transmitter. Enables multicast audio streaming transmission over a local area network (LAN). General purpose input. Remote update via PC software or locally via USB.
INPUTS	1 stereo aux, 2 x RCA 1 V 1 programmable isolated input for contact closure event activation, euroblock USB port for software updating.
OUTPUTS	1 x 10/100 Base T ethernet, RJ-45Z
POWER SUPPLY	100-240 V AC, 10 W
DIMENSIONS	330 x 45 x 197 mm depth. 1 U 19" rack
WEIGHT	1.6 kg
ACCESSORIES	Mounts for assembly in 19" rack
SOFTWARE	PC software with automatic detection of AIP series devices connected in the LAN Creation of audio channels for distribution Remote selection of the audio channel on each receiver/player Remote adjustment of configuration parameters Background music, instant and scheduled messages, events and voice Firmware update



AIP-SPL

FEATURES	Sound pressure sensor for AIP system. Collects environmental sound pressure levels to automatically configure the volume of each zone. C-weighted in compliance with the IEC-61672 standard. Configuration via PC. USB port for software updating. PoE or local power supply
OUTPUTS	1 ethernet, RJ-45
DIMENSIONS	202 mm Ø x 77 mm depth
HOLE	163.5 mm Ø
POWER SUPPLY	12 V DC, 150 mA, PoE or Euroblock
WEIGHT	0.4 kg
OPTIONAL	Power adapter mod. AD-1510E Anchorage installation system



AIP-GATE

FEATURES

AIP audio channels programmer.
 Generator of background music channels, messages and IP audio events.
 Web interface for system control.
 It allows the creation, programming and broadcasting of streaming audio channels using multicast through a local area network (LAN).
 Audio channel selection and configuration of all system devices through web interface.
 32 GB internal storage memory.
 Web API for integration (RESTful API).
 Remote update via PC software or locally via USB.

INPUTS	1 x 10/100 Base T ethernet, RJ-45 USB port for software updating.
POWER SUPPLY	100-240 V AC, 10 W
DIMENSIONS	330 x 45 x 197 mm depth. 1 U rack 19"
WEIGHT	1.6 kg
ACCESSORIES	Mounts for assembly in 19" rack
SOFTWARE	PC software with automatic AIP series device LAN detection Creation of audio channels for distribution Remote selection of audio channel on each player Remote adjustment of configuration parameters Background music, instant and scheduled messages, events and voice Firmware update

AIP-1020

FEATURES

IP audio system microphone.
 Key touchpad with 12 configurable buttons.
 2 integrated microphones
 Paging from the microphone, playback of pre-recorded messages, etc.
 Configuration via PC.
 Audio streaming via local area network (LAN).
 USB port for software updating.

INPUTS	1 balanced micro, XLR, 600 Ω 5 mV XLR 1 link, RJ-11 for expansion
OUTPUTS	1 ethernet, RJ-45 1 headphone, 3.5 mm jack
POWER SUPPLY	12 V DC, 1.5 A with adapter included
DIMENSIONS	140 x 41.5 x 120 mm depth
WEIGHT	0.1 kg
OPTIONAL	FCM-734-B: gooseneck condenser microphone



PUBLIC ADDRESS OVER IP SYSTEM

AIP

Unidirectional condenser gooseneck special microphone for mod. AIP-1020

FCM-734-B **N!**

CAPSULE	Unidirectional cardioid electret condenser
RESPONSE	80-16,000 Hz
SENSITIVITY	-43 dB (V/Pa) at 1 kHz
IMPEDANCE	500 Ω
CONNECTORS	"XLR male Balanced line"
PHANTOM	9 to 52 V DC
HEIGHT	Total: 42 cm with tube and gooseneck, adaptable to XLR micro bases, etc.
WEIGHT	0.1 kg
ACCESSORIES	Foam windshield
NOTE	Special for AIP-1020



PUBLIC ADDRESS OVER IP SYSTEM

AIP

AIP-10 series allows programmable isolated inputs for contact closure event activation and output relays for external device control and third-wire control.

You can choose the combination that best suits your installation, in groups of 4, with up to 16 inputs or relays per device.



AIP-10-4R **N!**

FEATURES	General purpose 4-output device for IP audio system. Remote update via PC software or locally via USB.
INPUTS	1 ethernet 10/100 Base T, RJ-45 USB port for software update
OUTPUTS	4 output relays for external device control and third-wire control, euroblock
POWER SUPPLY	100-240 V AC, 10 W
DIMENSIONS	435 x 45 x 197 mm depth. 1 U 19" rack
WEIGHT	1.6 kg
ACCESSORIES	19" rack mount brackets
SOFTWARE	PC software with automatic detection of AIP series devices connected in the LAN network Remote adjustment of configuration parameters Firmware update



AIP-10-4S **N!**

FEATURES	4 isolated input device for IP audio system. Remote update via PC software or locally via USB.
INPUTS	1 ethernet 10/100 Base T, RJ-45 4 programmable isolated inputs for contact closure event triggering, euroblock USB port for software update
POWER SUPPLY	100-240 V AC, 10 W
DIMENSIONS	435 x 45 x 197 mm depth. 1 U 19" rack
WEIGHT	1.6 kg
ACCESSORIES	19" rack mount brackets
SOFTWARE	PC software with automatic detection of AIP series devices connected in the LAN network Remote adjustment of configuration parameters Firmware update



AIP-10-4S4R **NI**

FEATURES	Isolated 4-input and 4-output general purpose device for IP audio system. Remote update via PC software or locally via USB.
INPUTS	1 ethernet 10/100 Base T, RJ-45 4 programmable isolated inputs for contact closure event triggering, euroblock USB port for software update
OUTPUTS	4 output relays for external device control and third-wire control, euroblock
POWER SUPPLY	100-240 V AC, 10 W
DIMENSIONS	435 x 45 x 197 mm depth. 1 U 19" rack
WEIGHT	1.6 kg
ACCESSORIES	19" rack mount brackets
SOFTWARE	PC software with automatic detection of AIP series devices connected in the LAN network Remote adjustment of configuration parameters Firmware update



AIP-10-4S8R **NI**

FEATURES	Isolated 4-input and 8-output general purpose device for IP audio system. Remote update via PC software or locally via USB.
INPUTS	1 ethernet 10/100 Base T, RJ-45 4 programmable isolated inputs for contact closure event triggering, euroblock USB port for software update
OUTPUTS	8 output relays for external device control and third-wire control, euroblock
POWER SUPPLY	100-240 V AC, 10 W
DIMENSIONS	435 x 45 x 197 mm depth. 1 U 19" rack
WEIGHT	1.6 kg
ACCESSORIES	19" rack mount brackets
SOFTWARE	PC software with automatic detection of AIP series devices connected in the LAN network Remote adjustment of configuration parameters Firmware update



AIP-10-4S12R **NI**

FEATURES	Isolated 4-input and 12-output general purpose device for IP audio system. Remote update via PC software or locally via USB.
INPUTS	1 ethernet 10/100 Base T, RJ-45 4 programmable isolated inputs for contact closure event triggering, euroblock USB port for software update
OUTPUTS	12 output relays for external device control and third-wire control, euroblock
POWER SUPPLY	100-240 V AC, 10 W
DIMENSIONS	435 x 45 x 197 mm depth. 1 U 19" rack
WEIGHT	1.6 kg
ACCESSORIES	PC software with automatic AIP series device LAN detection Remote adjustment of configuration parameters Firmware update
SOFTWARE	PC software with automatic detection of AIP series devices connected in the LAN network Remote adjustment of configuration parameters Firmware update



AIP-10-8R **NI**

FEATURES	General purpose 8-output device for IP audio system. Remote update via PC software or locally via USB.
INPUTS	1 ethernet 10/100 Base T, RJ-45 USB port for software update
OUTPUTS	8 output relays for external device control and third-wire control, euroblock
POWER SUPPLY	100-240 V AC, 10 W
DIMENSIONS	435 x 45 x 197 mm depth. 1 U 19" rack
WEIGHT	1.6 kg
ACCESSORIES	19" rack mount brackets
SOFTWARE	PC software with automatic detection of AIP series devices connected in the LAN network Remote adjustment of configuration parameters Firmware update

PUBLIC ADDRESS OVER IP SYSTEM

AIP

AIP devices



AIP-IO-8S **NI**

FEATURES	8 isolated input device for IP audio system. Remote update via PC software or locally via USB.
INPUTS	1 ethernet 10/100 Base T, RJ-45 8 programmable isolated inputs for contact closure event triggering, euroblock USB port for software update
POWER SUPPLY	100-240 V AC, 10 W
DIMENSIONS	435 x 45 x 197 mm depth. 1 U 19" rack
WEIGHT	1.6 kg
ACCESSORIES	19" rack mount brackets
SOFTWARE	PC software with automatic detection of AIP series devices connected in the LAN network Remote adjustment of configuration parameters Firmware update



AIP-IO-8S4R **NI**

FEATURES	Isolated 8-input and 4-output general purpose device for IP audio system. Remote update via PC software or locally via USB.
INPUTS	1 ethernet 10/100 Base T, RJ-45 8 programmable isolated inputs for contact closure event triggering, euroblock USB port for software update
OUTPUTS	4 output relays for external device control and third-wire control, euroblock
POWER SUPPLY	100-240 V AC, 10 W
DIMENSIONS	435 x 45 x 197 mm depth. 1 U 19" rack
WEIGHT	1.6 kg
ACCESSORIES	19" rack mount brackets
SOFTWARE	PC software with automatic detection of AIP series devices connected in the LAN network Remote adjustment of configuration parameters Firmware update

AIP-IO-8S8R **NI**

FEATURES	Isolated 8-input and 8-output general purpose device for IP audio system. Remote update via PC software or locally via USB.
INPUTS	1 ethernet 10/100 Base T, RJ-45 8 programmable isolated inputs for contact closure event triggering, euroblock USB port for software update
OUTPUTS	8 output relays for external device control and third-wire control, euroblock
POWER SUPPLY	100-240 V AC, 10 W
DIMENSIONS	435 x 45 x 197 mm depth. 1 U 19" rack
WEIGHT	1.6 kg
ACCESSORIES	19" rack mount brackets
SOFTWARE	PC software with automatic detection of AIP series devices connected in the LAN network Remote adjustment of configuration parameters Firmware update



AIP-IO-12R **NI**

FEATURES	General purpose 12-output device for IP audio system. Remote update via PC software or locally via USB.
INPUTS	1 ethernet 10/100 Base T, RJ-45 USB port for software update
OUTPUTS	12 output relays for external device control and third-wire control, euroblock
POWER SUPPLY	100-240 V AC, 10 W
DIMENSIONS	435 x 45 x 197 mm depth. 1 U 19" rack
WEIGHT	1.6 kg
ACCESSORIES	19" rack mount brackets
SOFTWARE	PC software with automatic detection of AIP series devices connected in the LAN network Remote adjustment of configuration parameters Firmware update



AIP-IO-12S **NI**

FEATURES	12 isolated input device for IP audio system. Remote update via PC software or locally via USB.
INPUTS	1 ethernet 10/100 Base T, RJ-45 12 programmable isolated inputs for contact closure event triggering, euroblock zUSB port for software update
POWER SUPPLY	100-240 V AC, 10 W
DIMENSIONS	435 x 45 x 197 mm depth. 1 U 19" rack
WEIGHT	1.6 kg
ACCESSORIES	19" rack mount brackets
SOFTWARE	PC software with automatic detection of AIP series devices connected in the LAN network Remote adjustment of configuration parameters Firmware update



AIP-IO-12S4R N!

FEATURES	Isolated 12-input and 4-output general purpose device for IP audio system. Remote update via PC software or locally via USB.
INPUTS	1 ethernet 10/100 Base T, RJ-45 2 programmable isolated inputs for contact closure event triggering, euroblock USB port for software update
OUTPUTS	4 output relays for external device control and third-wire control, euroblock
POWER SUPPLY	100-240 V AC, 10 W
DIMENSIONS	435 x 45 x 197 mm depth. 1 U 19" rack
WEIGHT	1.6 kg
ACCESSORIES	19" rack mount brackets
SOFTWARE	PC software with automatic detection of AIP series devices connected in the LAN network Remote adjustment of configuration parameters Firmware update



AIP-IO-16R N!

FEATURES	General purpose 16-output device for IP audio system. Remote update via PC software or locally via USB.
INPUTS	1 ethernet 10/100 Base T, RJ-45 USB port for software update
OUTPUTS	16 output relays for external device control and third-wire control, euroblock
POWER SUPPLY	100-240 V AC, 10 W
DIMENSIONS	435 x 45 x 197 mm depth. 1 U 19" rack
WEIGHT	1.6 kg
ACCESSORIES	19" rack mount brackets
SOFTWARE	PC software with automatic detection of AIP series devices connected in the LAN network Remote adjustment of configuration parameters Firmware update



AIP-IO-16S N!

FEATURES	16 isolated input device for IP audio system. Remote update via PC software or locally via USB.
INPUTS	1 ethernet 10/100 Base T, RJ-45 16 programmable isolated inputs for contact closure event triggering, euroblock USB port for software update
POWER SUPPLY	100-240 V AC, 10 W
DIMENSIONS	435 x 45 x 197 mm depth. 1 U 19" rack
WEIGHT	1.6 kg
ACCESSORIES	19" rack mount brackets
SOFTWARE	PC software with automatic detection of AIP series devices connected in the LAN network Remote adjustment of configuration parameters Firmware update

PUBLIC ADDRESS OVER IP SYSTEM

AIP

PoE active IP surface loudspeaker



SONORA-5AIPN **NI**

FEATURES	<p>PoE active loudspeaker for AIP systems with IP audio player and SIP client. Class D amplifier with passive speaker output. Great sound quality, clear sound and distortion-free. Built-in microphone for SPL function and auto-check, captures ambient sound pressure values for automatic volume setting of the zones. Allows streaming audio reception via multicast via local area network (LAN). General purpose input. Operating status indicator. Remote update via PC software or locally via USB.</p>
POWER	25 + 25 W RMS (24V DC, 3.125 A, 75W) 20 + 20 W RMS (POE, 60W)
SPEAKERS	1 x 5 ¼" polypropylene woofer 1 x 1" tweeter
RESPONSE	80-20,000 Hz
INPUTS	1 stereo aux, 3.5 mm jack 1 programmable isolated input for event triggering by contact closure, euroblock 1 x 10/100 Base T ethernet, RJ-45 USB port for software update
OUTPUTS	1 passive loudspeaker, 8 Ω, euroblock
INDICATORS	Operation status
MATERIAL	Aluminium grille Stainless steel screws
TEMPERATURE RANGE	- 10°C to 60°C
COLOUR	Black (RAL 9004)
POWER SUPPLY	1 x 60 W POE ethernet ,RJ-45 or 24 V DC, 75 W, euroblock
DIMENSIONS	162 x 262 x 147 mm depth
WEIGHT	1.9 kg
ACCESSORIES	Full motion adjustable fixing mount ± 60° Steel safety cable



SONORA-5AIPB **NI**

FEATURES	<p>PoE active loudspeaker for AIP systems with IP audio player and SIP client. Class D amplifier with passive speaker output. Great sound quality, clear sound and distortion-free. Built-in microphone for SPL function and auto-check, captures ambient sound pressure values for automatic volume setting of the zones. Allows streaming audio reception via multicast via local area network (LAN). General purpose input. Operating status indicator. Remote update via PC software or locally via USB.</p>
POWER	25 + 25 W RMS (24V DC, 3.125 A, 75W) 20 + 20 W RMS (POE, 60W)
SPEAKERS	1 x 5 ¼" polypropylene woofer 1 x 1" tweeter
RESPONSE	80-20,000 Hz
INPUTS	1 stereo aux, 3.5 mm jack 1 programmable isolated input for event triggering by contact closure, euroblock 1 x 10/100 Base T ethernet, RJ-45 USB port for software update
OUTPUTS	1 passive loudspeaker, 8 Ω, euroblock
INDICATORS	Operation status
MATERIAL	Aluminium grille Stainless steel screws
TEMPERATURE RANGE	- 10°C to 60°C
COLOUR	White (RAL 9003)
POWER SUPPLY	1 x 60 W POE ethernet ,RJ-45 or 24 V DC, 75 W, euroblock
DIMENSIONS	162 x 262 x 147 mm depth
WEIGHT	1.9 kg
ACCESSORIES	Full motion adjustable fixing mount ± 60° Steel safety cable

PUBLIC ADDRESS OVER IP SYSTEM

AIP

Outdoor PoE active IP surface speaker

FONESTAR



SONORA-5AIPXB **NI**

FEATURES	
POWER	22 W RMS (POE, 60W)
SPEAKERS	1 x 5 ¼" polypropylene woofer 1 x 1" tweeter
RESPONSE	80-20,000 Hz
INPUTS	1 x 10/100 Base T ethernet, RJ-45
PROTECTIONS	IP-66 IEC 60068-2-11 Environmental testing (salt mist)
MATERIAL	Aluminium grille Weatherproof mount Stainless steel screws
INDICATORS	Operation status
COLOUR	White (RAL 9003)
POWER SUPPLY	1 60W POE ethernet, RJ-45
DIMENSIONS	162 x 262 x 147 mm depth
WEIGHT	1.9 kg
ACCESSORIES	Full motion adjustable fixing mount ± 60° Steel safety cable

SONORA-5AIPXN **NI**

FEATURES	
POWER	22 W RMS (POE, 60W)
SPEAKERS	1 x 5 ¼" polypropylene woofer 1 x 1" tweeter
RESPONSE	80-20,000 Hz
INPUTS	1 x 10/100 Base T ethernet, RJ-45
PROTECTIONS	IP-66 IEC 60068-2-11 Environmental testing (salt mist)
MATERIAL	Aluminium grille Weatherproof mount Stainless steel screws
INDICATORS	Operation status
COLOUR	Black (RAL 9004)
POWER SUPPLY	1 60W POE ethernet, RJ-45
DIMENSIONS	162 x 262 x 147 mm depth
WEIGHT	1.9 kg
ACCESSORIES	Full motion adjustable fixing mount ± 60° Steel safety cable

SCHEDULERS

SCHEDULERS/TIMERS

Message scheduler, background music player and SIP client.

Scheduled and instant message player. Background music from internal memory. SIP client for connection to PBX and SIP devices. Programming with PC software via local area network [LAN] and internet.



ZSM-1000

FEATURES

Message scheduler, background music player and SIP client.

Pre-recorded message playback.

16 GB internal memory for audio files.

PC software for programming, audio file management and transfer via local area network (LAN) and internet.

SIP protocol.

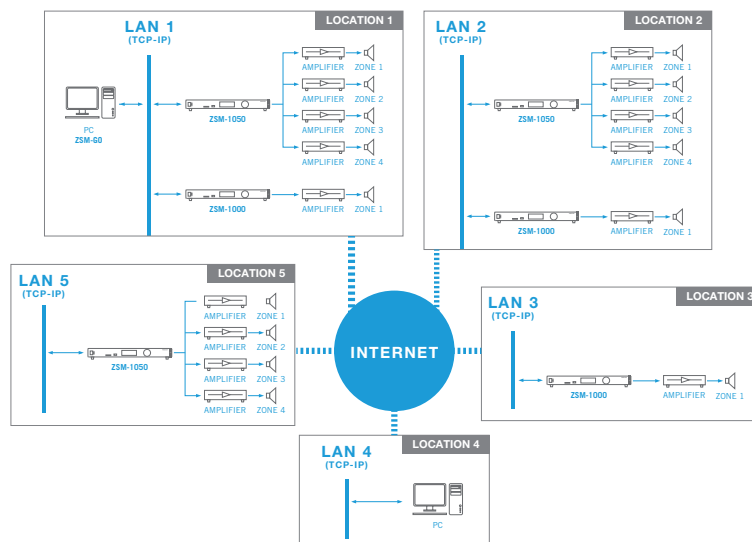
10 selectable channels via the front panel with independent volume control for background music and messages.

LCD display.

Update software remotely or locally via USB port.

INPUTS	1 ethernet connection, RJ-45 USB port for software updating.
OUTPUTS	1 aux, 2 x RCA 1 V
POWER SUPPLY	100-240 V AC, 8 W
DIMENSIONS	294 x 44 x 158 mm depth. 1 U rack 19"
WEIGHT	1.8 kg
ACCESSORIES	Mounts for assembly in 19" rack
SOFTWARE	ZSM-GO PC software (included) Access through the local area network (LAN) and internet Control and management of multiple ZSM Message scheduler Creation and control of background music channels Management and transfer of audio files Status monitoring

EXAMPLE OF A MESSAGE SCHEDULER





ZSM-1050

FEATURES	<p>Message, event scheduler, background music player and SIP client with 4 outgoing zones. Temporary scheduling of general purpose messages and outputs. Play live messages. Triggering of alarms and events by contact closure. Dedicated player for messages, alarms (internal memory) and VoIP. It does not interrupt background music. Ambient music player from USB/SD or internal memory with multi-channel creation. PC software for programming, management and transfer of audio files via local area network (LAN) and internet. priority of alarms and messages over ambient music inputs. 16 GB internal memory for audio files. USB port and SD card reader for audio file playback and software update.</p>
INPUTS	<p>1 aux for background music, 2 x RCA 1 V 4 programmable isolated input for contact closure alarm activation, euroblock 1 ethernet, RJ-45</p>
OUTPUTS	<p>4 zones, 2 x RCA 2 V 4 general purpose relays, euroblock 2 link for future applications, RJ-45</p>
POWER SUPPLY	100-240 V AC, 9 W and 24 V DC, 0.4 A
DIMENSIONS	435 x 45 x 220 mm depth. 1 U rack 19"
WEIGHT	2.7 kg
ACCESSORIES	Mounts for assembly in 19" rack
SOFTWARE	ZSM-GO PC software (included). Access through the local area network (LAN) and internet. Control and management of multiple ZSM. Scheduling of general purpose outputs and messages. Alarm setting and alarm inputs. Creation and control of background music channels. Management and transfer of audio files. Status monitoring

USB/SD/MP3 scheduler/player

Weekly scheduling of MP3 file playback: ringtones, announcements, background music, etc. Especially recommended in schools, offices, shops, churches, etc. Direct playback of 9 messages via remote push button.

MP-121P

FEATURES	<p>Weekly scheduler. USB/SD/MP3 player. LCD display. Priority paging. 9 messages, individually selectable via direct access buttons or contact closure.</p>
RESPONSE	50-18,000 Hz ±3 dB
DISTORTION	Harmonic: < 0.5% at 1 kHz
INPUTS	<p>2 balanced micro/lines, combo (XLR and 6.3 mm jack) 600 Ω 5 mV and 47,000 Ω 150mV, switchable 2 aux, 2 x RCA 10,000 Ω 350 mV</p>
OUTPUTS	<p>1 master, 2 x RCA and 2 x XLR 600 Ω 1 V mono/stereo selectable 1 rec out, 2 x RCA</p>
CONTROLS	<p>Tone: Bass and treble Balance Volume: input 1 and 2, aux 3 and 4, MP3 and general volume</p>
PRIORITY	Mic. 1 depending on signal level, selectable
POWER SUPPLY	230 V AC, 9 W
DIMENSIONS	483 x 89 x 310 mm depth. 2 U rack 19"
WEIGHT	4.5 kg



ZONE SYSTEM

MPX AUDIO MATRIX

Audio matrix with 8 analogue input channels to 8 output zones and 4 configurable digital channels.

Music source selection, volume and equalisation control for each zone with PC software or via the optional zone controls mod. MPX-420V or MPX-430VS.

Priority paging through microphone with zone selector mod. MPX-400MIC.

DSP function in inputs and outputs with priority control and feedback suppressor.

A highly versatile system which is suitable for installations of any size, allowing music to be selected in each zone.

Perfect for commercial installations, hotels with conference rooms, etc.



MPX-4088

FEATURES

Audio matrix with 8 analogue input channels to 8 output zones.
 4 configurable input/output digital channels for use with controls mod. MPX-400MIC, MPX-410ES, MPX-430VS.
 Optional zone controls, mod. MPX-420V and MPX-430VS for program selection in the zone where the program is broadcast.
 PC control software.
 LED indicators for power, bus occupation, signal and failure.
 LCD information display.
 Microphone with priority and optional zone selection mod. MPX-400MIC.
 DANTE compatible.

INPUTS

8 balanced line, euroblock 6,800 Ω , 7.74 Vrms maximum
 2 RD ports, for mod. MPX-420V, MPX-430VS, MPX-410ES, MPX-400MIC or MPX-440X, RJ-45
 1 RC-Net port for matrix interconnection, RJ-45
 1 LAN port to connect to local area network, RJ-45

OUTPUTS

8 balanced line, euroblock 240 Ω , 7.74 Vrms maximum
 2 RD ports, for mod. MPX-420V, MPX-430VS, MPX-410ES, MPX-400MIC or MPX-440X, RJ-45
 1 extension link RC-Net, RJ-45
 RS-232 port, euroblock

CONTROLS

PC control software (input/output routing, DSP functions, equalisation, noise gates, compressor, gain controls, etc.)
 TCP/IP and RS-232 protocol for integration with other systems

RESPONSE

20-20,000 Hz ± 1.5 dB

DISTORTION

Harmonic: < 0.01%

S/N RATIO

Microphone > 102 dB
 Lines > 107 dB

PHANTOM

48 V in inputs 1 to 8, selectable via software

PRIORITY

Microphone with optional zone selector mod. MPX-400MIC
 Inputs 1 to 8 through level, selectable via software

POWER SUPPLY

100-240 V AC, 50/ 60 Hz, 80 W

DIMENSIONS

483 x 44 x 256 mm depth. 1 U rack 19"

WEIGHT

4.3 kg

OPTIONAL

MPX-400MIC: microphone with zone selector
 MPX-410ES: audio input/output control
 MPX-420V: zone control
 MPX-430VS: zone control with stereo output
 MPX-440X: RD port extender
 MPX-450D: DANTE module

Microphone with zone selector for paging via voice and chimes for audio matrix mod. MPX-4088. Selection of 1 to 32 zones. Connection to system using RJ-45, Cat 5e cable. The MPX matrix zone system supports 2 MPX-400MIC microphones per matrix.



MPX-400MIC	
FEATURES	Microphone with zone selector. Musical alert tones. Selection of zones and paging in the audio matrix mod. MPX-4088. Power, signal, saturation and communication status indicator lights. LCD information display. PC control software, customisation of zone names, microphone volume, volume and duration of musical tone and priority.
MICROPHONE	Electret condenser with gooseneck and ring light
INPUTS	1 balanced micro, XLR 6,800 Ω 1 mini USB port for charging music paging tones in MP3 or WAV format 1 RD port for connection to MPX-4088 matrix, RJ-45
CONTROLS	Microphone volume control and zone selector
CONNECTION	Cable RJ-45, Cat 5e
PHANTOM	12 V
POWER SUPPLY	24 V DC, 100 mA, via RD port
DIMENSIONS	Microphone with gooseneck: 430 mm high Base: 176 x 53 x 166 mm depth
ACCESSORIES	Foam windshield

Audio input/output control for audio matrix mod. MPX-4088.



MPX-410ES		MPX-420V		MPX-430VS	
FEATURES	Audio input/output control for audio matrix mod. MPX-4088. 2 input channels and 2 output channels. Converts and transmits digital audio to RD port. LED signal presence and saturation indicators for the inputs and outputs. Up to 2 MPX-410ES modules per matrix.	Remote control for volume control and zone assignment for audio matrix mod. MPX-4088. Connection to the matrix via RJ-45 cable, Cat 5e and link extension for connection of more MPX-420V controllers in series. LCD display with volume level information for the selected output.	Volume control with two balanced audio outputs and zone allocation for audio matrix mod. MPX-4088. Connection to RD ports. Connection to the matrix using RJ-45, Cat 5e cable. LCD display with volume level information for the selected output.		
INPUTS	1 balanced micro, XLR 5.100 Ω, assignable to channels 10 or 12. 1 stereo RCA line, 5.100 Ω, 7.74 V, assignable to channels 9/10 or 11/12. 1 RD port for connection to MPX-4088/RJ-45	1 RD port for connection to MPX-4088 matrix, RJ-45	1 RD port for connection to MPX-4088 matrix, RJ-45		
OUTPUTS	2 balanced lines, euroblock 240 Ω, 7.74 V, assignable to digital channels 9/10 or 11/12	1 extension link, RJ-45	2 balanced lines, euroblock, 240 Ω, 7.74 V, assignable to digital channels 9/10 or 11/12.		
CONTROLS	Microphone volume control Selectable phantom power supply	Volume and zone allocation control	Volume and zone allocation control		
CONNECTION	Cable RJ-45, Cat 5e	Cable RJ-45, Cat 5e	Cable RJ-45, Cat 5e		
PHANTOM	48 V	-	-		
POWER SUPPLY	24 V DC, 100 mA, via RD port	24 V DC, 100 mA, via RD port	24 V DC, 100 mA, RD port		
DIMENSIONS	147 x 86 x 47 mm depth	147 x 86 x 47 mm depth	147 x 86 x 47 mm depth		
WEIGHT	0.25 kg	0.23 kg	0.23 kg		
ACCESSORIES	Surface box	Surface box	Surface box		

ZONE SYSTEM

MPX AUDIO MATRIX

4 RD port expansion for audio matrix mod. MPX-4088.
Connections via RJ-45, Cat 5e cable.

MPX-440X

FEATURES	4 RD port expansion for audio matrix mod. MPX-4088. Connections via RJ-45, Cat 5e cable. LED power and connection indicators for each port.
INPUTS	1 RD port for connection to MPX-4088 matrix, RJ-45
OUTPUTS	1 RD audio port for RJ-45 connection of mods. MPX-400MIC, MPX-410ES, or MPX-430VS 3 RD audio port for RJ-45 connection of mod. MPX-420V
CONNECTION	Cable RJ-45, Cat 5e
POWER SUPPLY	24 V DC, 1 A, euroblock
DIMENSIONS	196 x 44 x 135 mm depth
WEIGHT	1 kg



Remote control for volume control and zone assignment with touch screen for audio matrix mod. MPX-4088.



MPX-460P

FEATURES	Remote control for volume control and zone assignment with touch screen for audio matrix mod. MPX-4088. Connection to the matrix using RJ-45, Cat 5e cable. Link extension for connection of up to 8 MPX-460P controllers in series. Capacitive LCD touch screen.
INPUTS	1 RD port for connection to MPX-4088 matrix, RJ-45
OUTPUTS	1 extension link, RJ-45
CONTROLS	Volume control, zone and scene assignment
POWER SUPPLY	24 VDC, 100 mA, through RD port with direct connection from matrix. 24 VDC, 300 mA, Euroblock, for local power when more than one MPX-460P is connected in series
DIMENSIONS	150 x 115 x 25 mm depth
WEIGHT	0.7 kg
ACCESSORIES	Surface box

DANTE expansion module. Connections via RJ-45, Cat 5e cable.

MPX-450D

FEATURES	DANTE expansion module. 8 x 8 digital audio input/output channels. Connections via RJ-45, Cat 5e cable. Channels sharing between matrixes.
INPUTS	2 DANTE ports, 2 x RJ-45 (Primary and Secondary)
OUTPUTS	2 DANTE ports, 2 x RJ-45 (Primary and Secondary)
CONNECTION	Cable RJ-45, Cat 5e
DIMENSIONS	122 x 32 x 120 mm depth
WEIGHT	0.2 kg



ZONE SYSTEMS SWITCHING 100 V

Zone selector microphone for zone system mod. ZSC-1110. Priority paging and musical alert tone control. Line-in for playing background music from the microphone. 300-zone selection. Cat 5e cable system connection. The ZSC-1110 Zone System supports up to 16 mod. microphone. ZS-11.



ZS-11

FEATURES Microphone with direct selection buttons of 10 zones. Selection of up to 300 zones. Microphone and musical alert tone volume control.

MICROPHONE	Electret condenser with gooseneck
INPUTS	1 balanced micro, XLR 600 Ω 5 mV 1 unbalanced line, 6.3 mm jack 10,000 Ω 775 mV 1 micro zone selector, RJ-45
OUTPUTS	1 unbalanced line, 6.3 mm jack 10,000 Ω 775 mV 1 micro zone selector, RJ-45
CONNECTION	Cat 5e cable, up to 100 metres
POWER SUPPLY	24 V DC, 2 A including adapter
DIMENSIONS	Microphone with gooseneck: 475 mm high Base: 220 x 52 x 143 mm depth
WEIGHT	1.5 kg
ACCESSORIES	Cat 5e connection cable, RJ45

Switching unit with control of 10 loudspeaker zones, expandable to 300 zones. Paging in one or several zones while background music is maintained in the others. 100 V line switching, 2 input channels per 100 V line zone coming from the background music and paging amplifiers. Inputs for connection with the alarm control. Suitable for public address installations of any size.



ZSC-1110

FEATURES 10-zone switching unit for 100 V line. Expandable to 300 speaker zones with additional ZSC-1110 units. Suitable for public address installations of any size. LED switching matrix status indicators. Musical alert tones. Up to 16 microphones with ZS-11 zone selector can be connected.

INPUTS	2 unbalanced micro, 6.3 mm jack 600 Ω 5 mV 2 unbalanced lines, RCA 10,000 Ω 775 mV 2 contact closure alarm activation, euroblock 10 line 100 V for paging amplifier, maximum 500 W euroblock 10 line 100 V for background music amplifier, maximum 500 W euroblock 1 micro with zone selector, RJ45
OUTPUTS	10 speaker zones, euroblock 2 unbalanced lines, euroblock 10,000 Ω 775 mV 2 contact closure alarms, euroblock 1 expansion of zones, RJ45
RESPONSE	Microphones: 100-15,000 Hz Lines: 30-18,000 Hz
CONTROLS	Volume: microphones and musical warning tones Tone: Bass: ±10 dB Treble: ±10 dB Musical warning tones activation Selection of zones 1 to 10 and general Selection of music and paging
POWER SUPPLY	230 V AC, 40 W
DIMENSIONS	484 x 88 x 303 mm depth. 2 U rack 19"
WEIGHT	5.2 kg

ZONE SYSTEMS SWITCHING 100 V

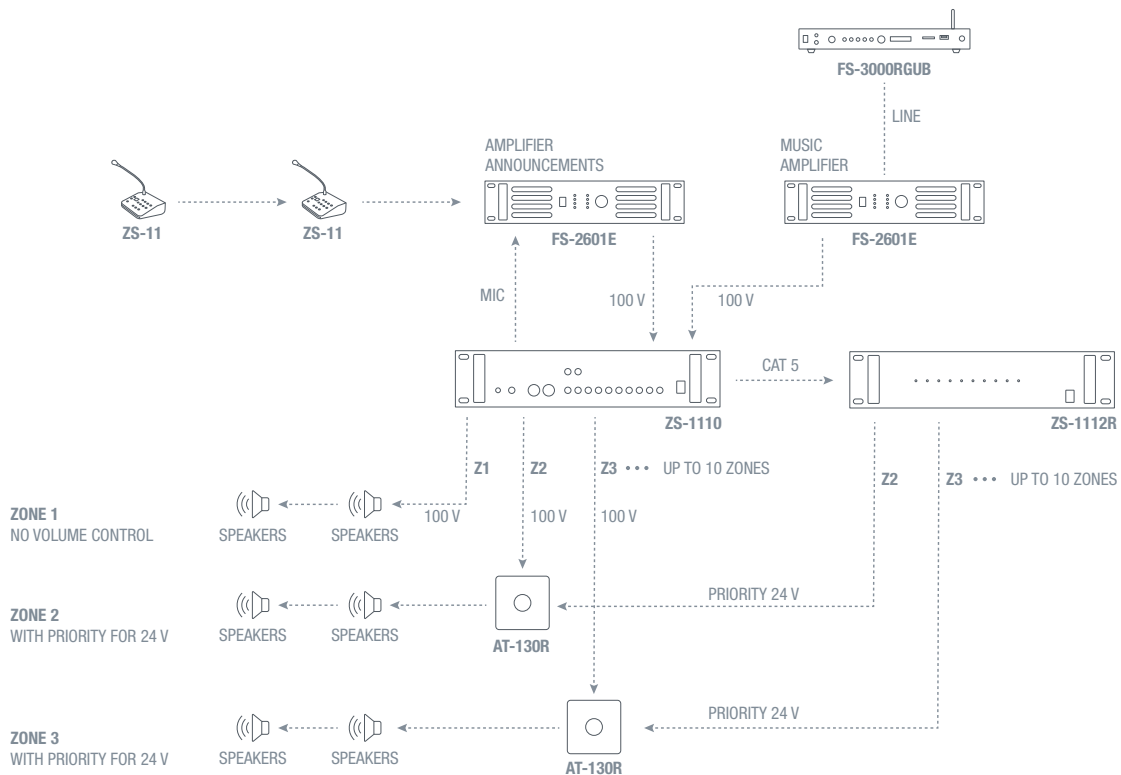
10 zone control unit for priority activation on attenuators with 24 V relay.



ZS-1112R

FEATURES	10 zone control unit for priority activation on attenuators with 24 V relay. Expandable to 300 zones.
INPUTS	1 expansion of zones, RJ45 2 contact closure alarm activation, screw terminals
OUTPUTS	10 24 V for relay activation on attenuators, screw terminals 1 expansion of zones, RJ45 2 contact closure alarms, screw terminals
POWER SUPPLY	230 V AC, 220 W
DIMENSIONS	484 x 88 x 303 mm depth. 2 U rack 19"
WEIGHT	6.2 kg

EXAMPLE OF THE MESSAGE SYSTEM WITH 10 ZONES



Microphones with zone or priority selector for zone amplifier MPZ-6480RGU. Play messages and music tones. Priority paging Zone or priority selector.



MZ-648

FEATURES	Microphone with 6 zone selector. Remote playback of 6 messages. Musical alert tones. Internal memory to store messages and chimes. Aux input. For the multizone amplifier mod. MPZ-6480RGU.
MICROPHONE	Electret condenser with gooseneck
INPUTS	1 micro balanced 1 micro zone selector, RJ-45 1 aux, 2 x RCA
OUTPUTS	1 micro zone selector, RJ-45 1 PC connection, USB B
CONNECTION	RJ-45 cable, distance over 100 m
POWER SUPPLY	15 V DC, 0.8 A with adapter included, power supply through the amplifier or local power supply
DIMENSIONS	Microphone with gooseneck: 485 mm high Base: 200 x 55 x 160 mm depth
WEIGHT	1 kg
ACCESSORIES	-

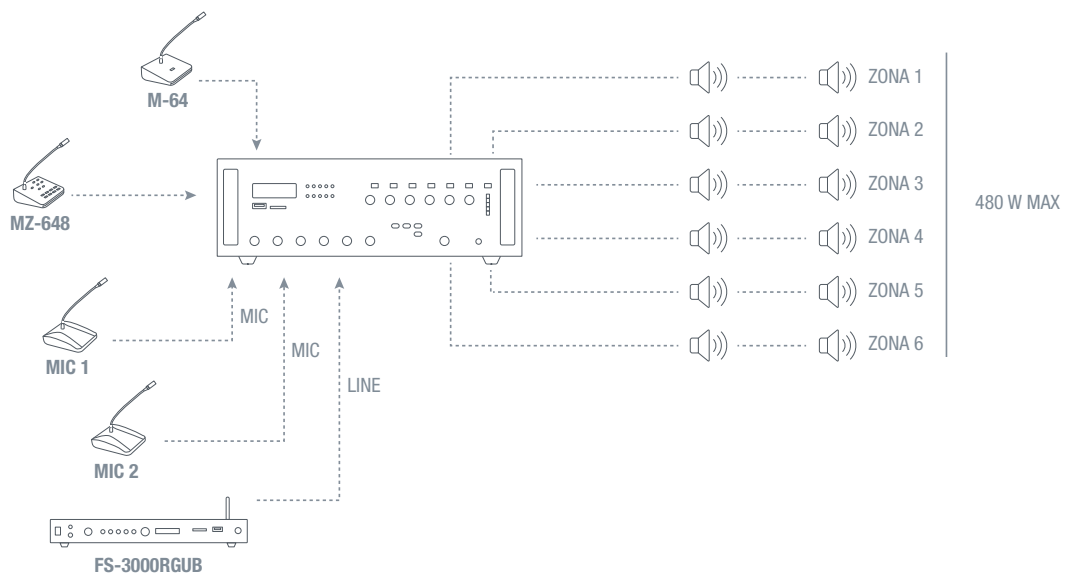


Zone selector microphone for MPZ-6241 amplifier. You can select up to 6 zones, broadcast announcements and musical tones on the amplifier.

M-62

FEATURES	Microphone with 6 zone selector. Musical alert tones. Ring and indicator lights for operation, zone selection and output level. Selection of zones and paging of announcements on the amplifier mod. MPZ-6241.
MICROPHONE	Electret condenser with gooseneck
INPUTS	1 micro, 5-pin socket 1 link input , RJ-45
OUTPUTS	1 micro zone selector, RJ-45
CONNECTION	RJ-45 cable, maximum distance 500 m
POWER SUPPLY	24 V DC, 500 mA with adapter included, power supply from the amplifier or local power supply for distances over 50 m or more than 2 microphones
DIMENSIONS	Microphone with gooseneck: 415 mm high Base: 175 x 54 x 147 mm depth
WEIGHT	1 kg
ACCESSORIES	RJ-45 connection cable

EXAMPLE OF THE MPZ-6480RGU SYSTEM



ZONE SYSTEM SWITCHING 100 V

Zone amplifier with 6 output zones with independent volume control, pre-recorded message playback and USB/SD/MP3 player/recorder with digital FM tuner.

Possibility of paging and pre-recorded messages playback in zones through microphone with zone selector mod. MZ-648.

Operates in single or dual mode: in single mode, when paging in one or several zones, music playback will be interrupted in the rest of the zones; In dual mode, an external amplifier is necessary to play the announcements and background music is not interrupted.

Suitable for commercial installations with several loudspeaker zones with the need for pre-recorded message playback and paging in different zones.



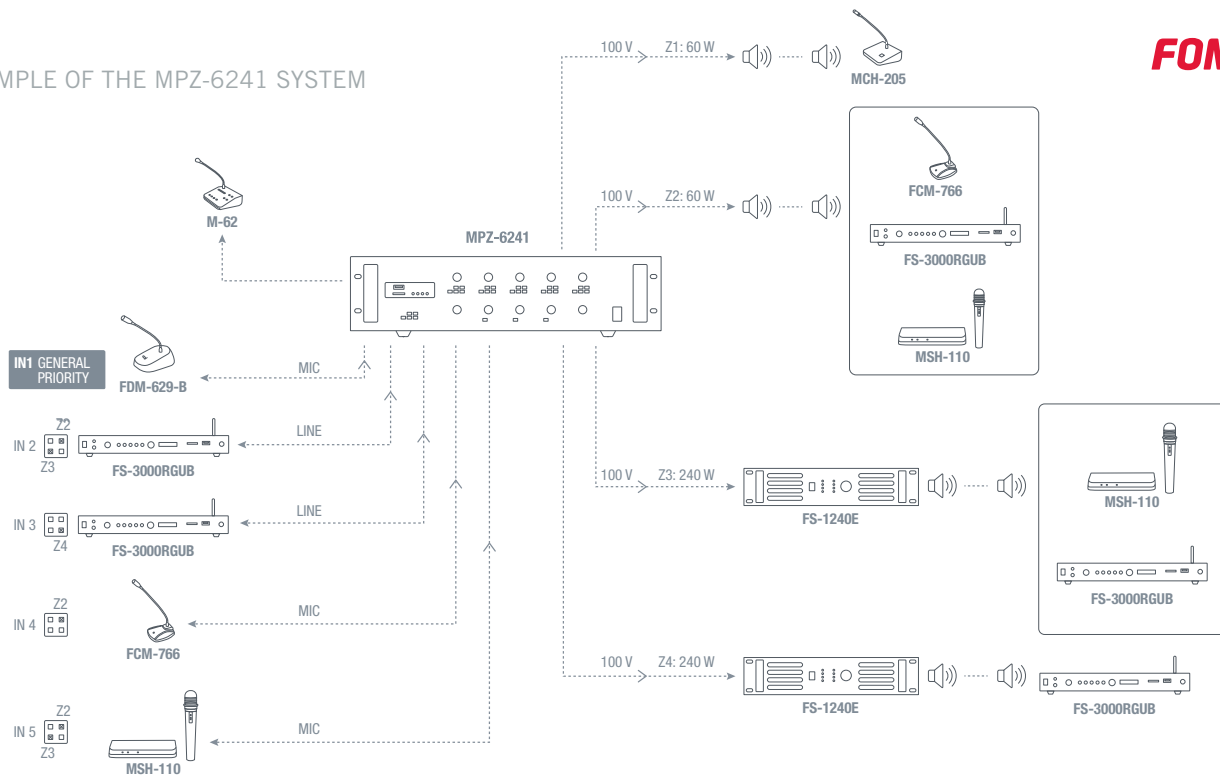
MPZ-648RGU

FEATURES

- Zone amplifier.
- 6 zones with independent volume control, maximum 120 W per zone.
- Playback of up to 6 prerecorded messages.
- USB/SD/MP3 recorder/player.
- Digital FM radio tuner.
- Internal memory to store messages and chimes.
- Phantom power supply.
- Priority paging.
- Connection of up to 3 MZ-648 paging microphones with zone selector 3 M-64 microphones with priority .

POWER	480 W RMS
RESPONSE	80-16,000 Hz ± 3 dB
DISTORTION	Harmonic: < 1%
INPUTS	4 balanced mics./lines, combo (XLR and 6.3 mm jack) 600 Ω 2.5 mV and 10,000 Ω 300 mV, switchable 2 aux, 2 x RCA 10,000 Ω 500 mV 1 insert, 6.3 mm jack 1 V 1 paging tel., screw terminals 10,000 Ω 250 mV 1 mic with zone selector, RJ-45 1 mic. with priority, RJ-45
OUTPUTS	1 paging out, 6.3 mm jack 1 V RMS 1 rec out, 2 x RCA 1 V RMS
S/N RATIO	Mic > 60 dB Line > 70 dB
PROTECTIONS	Temperature and overload
PHANTOM	24 V in mics. 1 to 4, selectable
PRIORITY	Mic 1 and paging from M-64. Mic 2, avisos desde MZ-648, mic 3, mic 4, aux 1, aux 2, tel ring, tel voice, chime (frontal), siren (frontal), reproductor USB/MP3/FM, mensajes pregrabados de MZ-648, nivel de prioridad 1 a 4 seleccionable mediante menú.
IMPEDANCE	4 Ω 100 V line, screw terminals
POWER SUPPLY	230 V AC, 960 W max
DIMENSIONS	483 x 133 x 433 mm depth. 3 U rack 19"
WEIGHT	15.9 kg
ACCESSORIES	Mount for assembly in 19" rack FM antenna
OPTIONAL	MZ-648: microphone with zone selector M-64: priority microphone

EXAMPLE OF THE MPZ-6241 SYSTEM



Zone amplifier with 6 output zones with independent volume control, BT/USB/SD/MP3 recorder/player with digital FM tuner. Possibility for paging via microphone with zone selector mod. M-62. Suitable for commercial installations with several loudspeaker zones with the need for piped music and paging in different zones.



MPZ-6241

FEATURES

- Class D zone amplifier.
- 6 selectable speaker zones with independent volume control, max. 50 W per zone.
- USB/SD/MP3 recorder/player.
- Digital FM radio tuner.
- Phantom power supply.
- Priority paging.
- Musical alert tones.
- Up to 6 microphones with M-62 zone selector can be connected.
- Remote control of the player.

POWER	240 W RMS
RESPONSE	80-16,000 Hz ±3 dB
DISTORTION	Harmonic: < 0.1%
INPUTS	4 balanced micro/line, combo (XLR and 6.3 mm jack) 600 Ω 5 mV RMS and 10,000 Ω 350 mV RMS, switchable 2 aux, 2 x RCA, 47,000 Ω 150 mV RMS 1 TEL, screw terminals 10,000 Ω 700 mV RMS 1 EMC, screw terminals 10,000 Ω 700 mV RMS 2 micro with zone selector, RJ-45
OUTPUTS	1 aux, 2 x RCA 1 V RMS
CONTROLS	Inputs 1 to 6: bass, treble and volume TEL: volume Siren: volume Chime: volume Zones 1 to 6: volume
S/N RATIO	Mic > 65 dB Line > 70 dB
PROTECTIONS	Temperature and overload
PHANTOM	48 V in mics. 1 to 4, selectable
PRIORITY	EMC, siren, TEL and paging from M-62, chime and Mic 1
IMPEDANCE	4 -16 Ω 100 and 70 V lines, screw terminals
POWER SUPPLY	230 V AC, 320 W max. and 24 V DC, 8 A 115 V AC on request
DIMENSIONS	484 x 88 x 353 mm depth. 2 U rack 19"
WEIGHT	8.2 kg
ACCESSORIES	FM antenna
OPTIONAL	M-62: microphone with zone selector

ZONE SYSTEM SWITCHING 100 V

Zone selector microphone for MPZ-461 amplifier.

You can select up to 4 zones, broadcast announcements and musical tones on the amplifier.



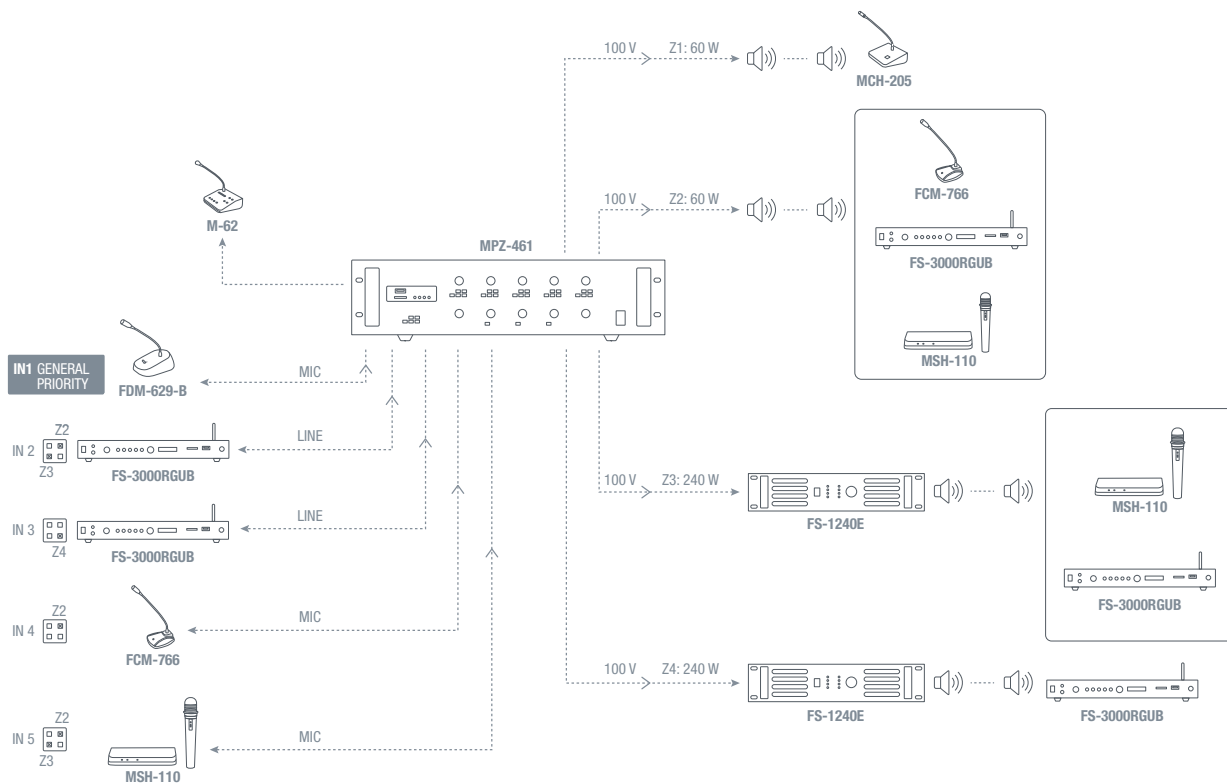
M-46

FEATURES

Microphone with 4 zone selector.
Musical alert tones.
Ring and indicator lights for operation, zone selection and output level.
Selection of zones and paging of announcements on the amplifier mod. MPZ-461.

MICROPHONE	Electret condenser with gooseneck
INPUTS	1 micro, 5-pin socket 1 link input , RJ-45
OUTPUTS	1 micro zone selector, RJ-45
CONNECTION	RJ-45 cable, distance over 100 m
PHANTOM	12 V
POWER SUPPLY	24 V DC, 2 A with adapter included, power supply from the amplifier or local power supply
DIMENSIONS	Microphone with gooseneck: 470 mm high Base: 220 x 55 x 140 mm depth
WEIGHT	1.4 kg
ACCESSORIES	RJ-45 connection cable

EXAMPLE OF THE MPZ-461 SYSTEM



5-channel input matrix amplifier, USB/SD/MP3 player and Bluetooth receiver with FM digital tuner assignable to 4 output zones with independent volume control.

Possibility to give remote announcements via microphone with zone selector mod. M-46.

Suitable for commercial installations with various zones and different music programs.



MPZ-461

FEATURES

- Matrix amplifier with zone microphone.
- USB/SD/MP3 player.
- Digital FM radio tuner.
- 5-channel input and player allocation matrix
- USB/SD/MP3/FM to 4 output zones.
- 4 zones with independent volume control and line output.
- Phantom power supply.
- Priority paging.
- Up to 4 microphones with M-46 zone selector can be connected.
- Remote control for USB/SD/MP3/FM player.

POWER	4 x 90 W RMS
RESPONSE	80-16,000 Hz ±3 dB
DISTORTION	Harmonic: < 0.1%
INPUTS	3 balanced micro/line, combo (XLR and 6.3 mm jack) 600 Ω 6.5 mV RMS and 10,000 Ω 400 mV RMS, switchable 2 aux, 2 x RCA, 10,000 Ω 400 mV RMS 1 paging tel., screw terminals 10,000 Ω 350 mV RMS 1 mic with zone selector, RJ-45
OUTPUTS	4 balanced or unbalanced line zones 1 to 4, screw terminals, 600 Ω 350 mV RMS 1 monitor, screw terminals 1 W 8 Ω
CONTROLS	Channels 1 to 5: gain, bass, treble, volume and zone assignment USB/SD/MP3/FM player: zone allocation Tel. paging: volume and zone selector Zones 1 to 4: volume and monitor selector Monitor volume GND lift ground disconnection
S/N RATIO	> 65 dB
PROTECTIONS	Temperature, overload and short circuit
PHANTOM	48 V in mics. 1 to 3, selectable
PRIORITY	Input 1, Tel. paging and microphone with zone selector through signal level
IMPEDANCE	4 zones: 4 Ω and 100 and 70 V lines, screw terminals
POWER SUPPLY	230 V AC, 450 W max
DIMENSIONS	483 x 138 x 440 mm depth. 3 U rack 19"
WEIGHT	15.5 kg
ACCESSORIES	FM antenna
OPTIONAL	M-46: microphone with zone selector

SOUND KITS

STEREO WALL AMPLIFIERS

2 speaker and 4 speaker sound kits



KS-WALL **NI**

FEATURES

Sound kit: compact stereo amplifier with 2 x 6" ceiling speakers.
 Bluetooth receiver.
 USB player.
 FM tuner with 50 presets and automatic search.
 2 auxiliary line level inputs.
 Autoplay, starts playback automatically when switched on.
 Memory of the last selected mode.
 Memory of playback mode (random, repeat).
 2.15" LCD display of mode and playback information.
 Configurable maximum volume.
 Power off timer.
 Bass and treble equalisation.
 Mono/stereo selector.
 Control via touch buttons or via included remote control.
 For universal standard square and round box.

POWER	15 + 15 W RMS@8 Ω
SPEAKERS	2 x 6" speakers @8 Ω ABS case Round aluminium frameless grille
INPUTS	1 x auxiliary line, 3.5 mm jack, 200 mV RMS 1 x auxiliary line, euroblock, 200 mV RMS 1 x FM antenna
OUTPUTS	Loudspeakers 4-8 Ω, euroblock
COLOUR	White (RAL 9003)
POWER SUPPLY	100-240 V CA
DIMENSIONS	Amplifier: Exterior: 83 x 83 x 39 mm depth Assembly: 47 x 47 x 27 mm depth Distance between screws: 60 mm Speakers: 186 mm Ø x 70 mm depth Cut-out hole: 170 mm
WEIGHT	1.22 kg
ACCESSORIES	Speaker wiring 2 x 5 m FM antenna cable Remote control Batteries included
OPTIONAL	DOT-BOX-B: surface-mounting box

KS-WALL-4 **NI**

FEATURES

Sound kit: compact stereo amplifier with 4 x 6" ceiling speakers.
 Bluetooth receiver.
 USB player.
 FM tuner with 50 presets and automatic search.
 2 auxiliary line level inputs.
 Autoplay, starts playback automatically when switched on.
 Memory of the last selected mode.
 Memory of playback mode (random, repeat).
 2.15" LCD display of mode and playback information.
 Configurable maximum volume.
 Power off timer.
 Bass and treble equalisation.
 Mono/stereo selector.
 Control via touch buttons or via included remote control.
 For universal standard square and round box.

POWER	25 + 25 W RMS@4 Ω
SPEAKERS	4 x 6" speakers @8 Ω ABS case Round aluminium frameless grille
INPUTS	1 x auxiliary line, 3.5 mm jack, 200 mV RMS 1 x auxiliary line, euroblock, 200 mV RMS 1 x FM antenna
OUTPUTS	Loudspeakers 4-8 Ω, euroblock
COLOUR	White (RAL 9003)
POWER SUPPLY	100-240 V CA
DIMENSIONS	Amplifier: Exterior: 83 x 83 x 39 mm depth Assembly: 47 x 47 x 27 mm depth Distance between screws: 60 mm Speakers: 186 mm Ø x 70 mm depth Cut-out hole: 170 mm
WEIGHT	2.25 kg
ACCESSORIES	4 x 5 m speaker wiring FM antenna cable Remote control Batteries included
OPTIONAL	DOT-BOX-B: surface-mounting box

Wall stereo amplifier



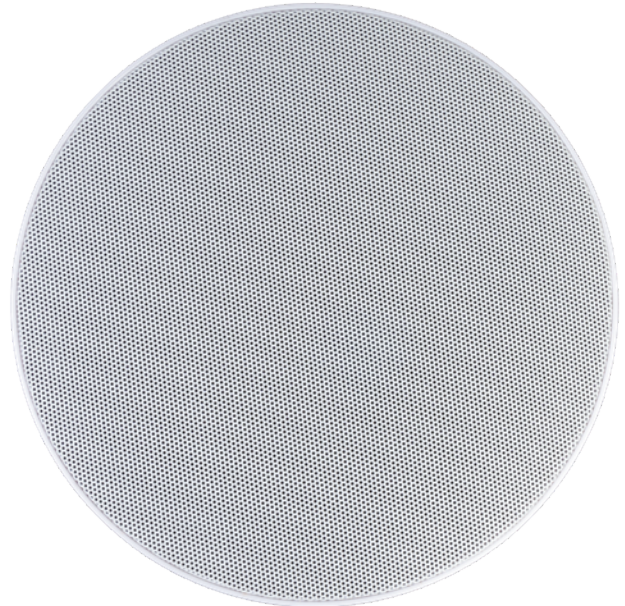
KS-AMP N!

FEATURES

Wall stereo amplifier.
 Bluetooth receiver.
 USB player.
 FM tuner with 50 presets and automatic search.
 2 auxiliary line level inputs.
 Autoplay, starts playback automatically when switched on.
 Memory of the last selected mode.
 Memory of playback mode (random, repeat).
 2.15" LCD display of mode and playback information.
 Configurable maximum volume.
 Power off timer.
 Bass and treble equalisation.
 Mono/stereo selector.
 Control via touch buttons or via included remote control.
 For universal standard square and round box.

POWER	25 + 25 W RMS@4 Ω 15 + 15 W RMS@8 Ω
INPUTS	1 x auxiliary line, 3.5 mm jack, 200 mV RMS 1 x auxiliary line, euroblock, 200 mV RMS 1 x FM antenna
OUTPUTS	Loudspeakers 4-8 Ω, euroblock
COLOUR	White (RAL 9003)
POWER SUPPLY	100-240 V CA
DIMENSIONS	Exterior: 83 x 83 x 39 mm depth Assembly: 47 x 47 x 27 mm depth Distance between screws: 60 mm
WEIGHT	0.12 kg
ACCESSORIES	FM antenna cable Remote control Batteries included
OPTIONAL	DOT-BOX-B: surface-mounting box

Speaker for stereo wall amplifier



KS-SPEAK N!

FEATURES

Low impedance ceiling loudspeaker
 Round, frameless aluminium grille.
 Crisp and clean sound, perfect for background music.

POWER	15 W RMS
SPEAKERS	6" double cone
RESPONSE	140-18,000 Hz (-3 dB)
IMPEDANCE	8 Ω
SENSITIVITY	92 dB at 1 W/1 m
MATERIAL	ABS and aluminum grille
COLOUR	White (RAL 9003)
DIMENSIONS	185 mm Ø x 75 mm depth
HOLE	170 mm Ø
WEIGHT	0.7 kg
	Quick installation system

SOUND KITS

STEREO WALL AMPLIFIERS

Sound kit ideal for offices and home, medium-sized rooms, kitchens, bathrooms, etc.

Easy integration and installation, great sound quality, comes with all the necessary elements to carry out its installation; stereo amplifier with bluetooth, which plays music from smartphones, tablets and other bluetooth devices, USB/MicroSD/MP3 player, FM radio.



KS-06

FEATURES	Wall amplifier and pair of ceiling loudspeakers.
COMPONENTS	Compact stereo amplifier 2 x 10 W RMS with flush-mounting box. USB/MicroSD/MP3 player FM radio with 30 automatic presets. Maximum volume configurable through PC connection. 2 aux inputs, screw terminals. Aux input 1 priority by signal level Only 100-240 V AC power supply required. 2 speakers 6 1/2" 10 W 8 Ω, made of ABS with round aluminium grille
TUNER	Digital FM with presets and auto scan
OUTPUTS	Loudspeakers 8 Ω, screw terminals
DIMENSIONS	Amplifier and box total: 86 x 86 x 62 mm depth Flush-mounting box: 80 x 80 x 50 mm depth Speakers: 186 mm Ø x 70 mm depth Cutting hole: 165 mm
WEIGHT	1.2 kg
ACCESSORIES	Flush-mounting box 5 m loudspeaker cable Remote control
OPTIONAL	46066: surface-mounting box 46067: box for cardboard-plaster partition

KS-064

FEATURES	Wall amplifier and 4 ceiling loudspeakers.
COMPONENTS	Compact stereo amplifier 2 x 10 W RMS with flush-mounting box. USB/MicroSD/MP3 player FM radio with 30 automatic presets. 2 aux inputs, screw terminals. Aux input 1 priority by signal level Only 100-240 V AC power supply required. 4 speakers 6 1/2" 6 W RMS 16 Ω, made of ABS with round aluminium grille
DIMENSIONS	Amplifier and box total: 86 x 86 x 62 mm depth Flush-mounting box: 80 x 80 x 50 mm depth Speakers: 186 mm Ø x 70 mm depth Cutting hole: 165 mm
WEIGHT	3.3 kg
ACCESSORIES	Flush-mounting box Speaker wiring 4 x 5 m Remote control
OPTIONAL	46066: surface-mounting box

Wall amplifier with bluetooth, USB/MicroSD/MP3 player, FM radio and 2 aux inputs.
Plays music from smartphones, tablets and other bluetooth devices.
Ideal for small sound systems.



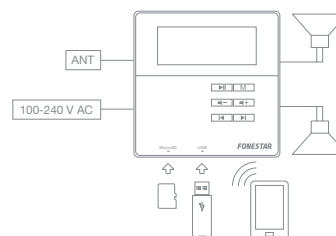
WA-66R

FEATURES

Wall stereo amplifier.
Maximum volume configurable through PC connection.
USB/MicroSD/MP3 player.
FM radio.
Display showing selected source and track, FM frequency.
Remote control.
For flush or surface-mounting box of 86 x 86 mm.



POWER	2 x 10 W RMS at 8 Ω
MP3 PLAYER	USB port and MicroSD
TUNER	Digital FM with 30 presets, storage and auto scan
INPUTS	2 aux, screw terminal
OUTPUTS	Loudspeakers 8 Ω, screw terminals
PRIORITY	AUX 1 through signal level
POWER SUPPLY	100-240 V AC, 23 W
COLOUR	White (RAL 9003)
DIMENSIONS	Total: 86 x 86 x 38 mm depth Socket: 62 x 67 x 28 mm depth Flush-mounting box: 80 x 80 x 50 mm depth
WEIGHT	0.1 kg
ACCESSORIES	Flush-mounting box Remote control



46066

FEATURES

ABS surface installation box for wall amplifier mod. WA-66R.

DIMENSIONS

86 x 86 x 40 mm depth



Ceiling speaker with round grille, for sound systems.

GA-266

FEATURES

Low-impedance ceiling loudspeaker with round grille.

POWER

6 W RMS

SPEAKERS

6 1/2" double cone

RESPONSE

140-18,000 Hz

IMPEDANCE

16 Ω

SENSITIVITY

93 dB at 1 W/1 m

MATERIAL

ABS and aluminum grille

COLOUR

White (RAL 9003)

DIMENSIONS

186 mm Ø x 70 mm depth

HOLE

170 mm Ø

WEIGHT

0.5 kg

Quick installation system



SOUND KITS

AMPLIFIED SPEAKERS

Ideal sound kit for offices and home, medium sized rooms, kitchens, etc.

Easy integration and installation, great sound quality, it comes with all the necessary elements to carry out its installation; pair of 6'5" coaxial ceiling speakers with Wi-Fi receiver and amplifier.



App
iOS/ANDROID

MULTIROOM

KS-07WIFI

FEATURES

Pair of Wi-Fi ceiling speakers.
Multiroom audio system.
APP for control from smartphones and tablets.
Wi-Fi playback of playlists, online music services and internet radio.
Active loudspeaker with amplifier and passive speaker output.
Priority in selectable aux input.
Maximum volume selector (50%, 100%).
Selectable stereo/mono mode.
Low profile, frameless magnetic grille.
Remote control.



SPEAKERS	2 x 2-way coaxial 6'5" and tweeter 1"
POWER	2 x 20 W RMS
INPUTS	1 aux, 2 x RCA 7,700 Ω 1.7 V RMS
OUTPUTS	1 aux, 2 x RCA 1 loudspeaker, euroblock
S/N RATIO	≤ 87 dB
CUTTING HOLE	210 mm Ø
POWER SUPPLY	18 V DC, 2.5 A with adapter included
DIMENSIONS	Amplified: 245 mm Ø x 120 mm depth Passive: 245 mm Ø x 105 mm depth
WEIGHT	4 kg
ACCESSORIES	3 m loudspeaker cable Batteries for remote control

Pair of ceiling speakers, ideal for offices and home, medium sized rooms, kitchens, etc.

Easy integration and installation, great sound quality, they come with all the necessary elements to carry out their installation. 6 1/2" coaxial speakers.



KS-11B

FEATURES

Pair of ceiling loudspeakers.
Active loudspeaker with integrated amplifier and passive loudspeaker output.
Low-profile protective aluminium grille.

AMPLIFIER	2 x 5 W RMS
SPEAKERS	2 x 6 1/2" speakers
RESPONSE	110-15,000 Hz
INPUTS	1 stereo aux, euroblock
OUTPUTS	1 loudspeaker, euroblock
S/N RATIO	> 81 dB
CONTROLS	Volume limiter Auxiliary input Stereo/mono selector
COLOUR	White (RAL 9003)
POWER SUPPLY	100-240 V CA
DIMENSIONS	190 mm Ø x 105 mm depth
CUTTING HOLE	170 mm Ø
WEIGHT	1.5 kg
ACCESSORIES	3 m loudspeaker cable

COMPACT AMPLIFIER COMPACT

FONESTAR

Compact stereo amplifier, 2 x 15 W RMS with one micro and one auxiliary line input. Specially designed for use in audio installations, highly reliable with high quality audio. Compact and robust construction. Class D highly efficient amplification circuit.

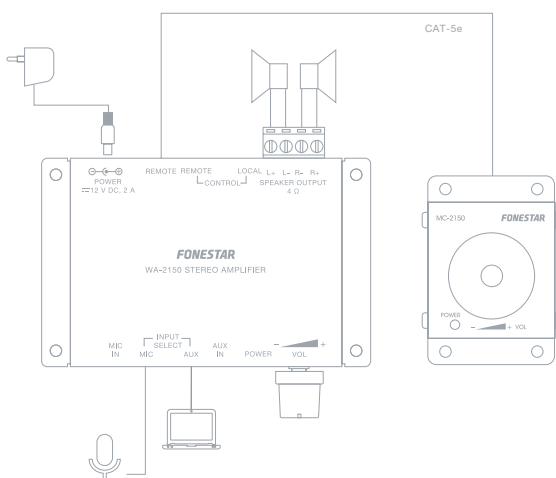


STEREO CLASS-D

WA-2150

FEATURES	Class D stereo amplifier Steel housing for surface mounting. Remote control output for power and volume adjustment. Stereo speaker output.
POWER	15 + 15 W RMS at 4 Ω
PROTECTIONS	Short circuit and temperature
RESPONSE	20-20,000 Hz
DISTORTION	Harmonic: 0.06% at 1 kHz
INPUTS	1 dynamic microphone, 6.3 mm mono jack 1 auxiliary line, 3.5 mm stereo jack
OUTPUTS	4-8 Ω loudspeakers, euroblock 1 remote control, RJ-45
CONTROLS	Master volume Input signal type selector: mic or line Volume control selector: local or remote
INDICATOR LIGHTS	LED power indicator
POWER SUPPLY	12 V DC, 2 A including adapter
DIMENSIONS	113 x 31 x 98 mm depth
WEIGHT	0.34 kg (incl. adapter)
OPTIONAL	Remote control mod. MC-2150

Remote control for wall amplifier mod. WA-2150.



MC-2150

FEATURES	Remote control to power on and adjust volume of wall amplifier mod. WA-2150. Connection with Cat 5e cable.
INPUTS	1 remote control, RJ-45
CONTROLS	On/off Master volume
DIMENSIONS	48 x 61 x 41.5 mm depth
INDICATOR LIGHTS	LED power indicator

COMPACT AMPLIFIERS

COMPACT

Stereo amplifier. Compact and versatile, amplifies signal from microphones, mobile telephones, MP3 players, etc.

STEREO

WA-2030

FEATURES	Stereo amplifier. Surface mounting case.
POWER	2 x 1.5 W RMS at 8 Ω
PROTECTION	Short circuit
RESPONSE	40-40,000 Hz
DISTORTION	Harmonic: 0.4% at 1 kHz
INPUT	1 mic/line, 3.5 mm stereo jack
OUTPUT	Loudspeaker 4-8 Ω, 3.5 mm stereo jack
POWER SUPPLY	12 V DC, 1 A including adapter
DIMENSIONS	100 x 28 x 91 mm depth
WEIGHT	0.2 kg



Class D stereo amplifier, 2 x 15 W RMS with remote control.
Compact and robust construction. Remote control for power and volume.
Volume control with motorised potentiometer. Class D highly efficient amplification circuit.
Specially designed for audio installations where high reliability and sound quality are required.

CLASS-D STEREO



WA-2151RC

FEATURES	Class D stereo amplifier Steel housing for surface mounting. Remote control. Volume control with motorised potentiometer. Stereo speaker output.
POWER	2 x 15 W RMS at 4 Ω
PROTECTIONS	Short circuit and temperature
RESPONSE	20-20,000 Hz
DISTORTION	Harmonic: 0.06% at 1 kHz
INPUTS	1 aux line, 2 x RCA
OUTPUTS	4-8 Ω loudspeakers, euroblock
CONTROLS	Standby and master volume
INDICATOR LIGHTS	Power on, standby, volume level, mute and IR LED indicator
POWER SUPPLY	12 V DC, 2 A including adapter
DIMENSIONS	145 x 41 x 97 mm depth
WEIGHT	0.5 kg (incl. adapter)
ACCESSORIES	Remote control extension cable



Stereo amplifier 2 x 15 W RMS with one optical digital audio or SPDIF input and two aux. lines. Headphone output. Suitable for amplifying TV digital audio output or headphone listening. Great reliability and sound quality. Compact and robust construction. Class D highly efficient amplification circuit.



CLASS-D STEREO

WA-2154D

FEATURES	Class D stereo compact amplifier Steel housing for surface mounting. Digital and analogue audio inputs. Stereo speaker output. Headphone output.
POWER	2 x 15 W RMS at 4 Ω
PROTECTIONS	Short circuit and temperature
RESPONSE	20-20,000 Hz
DISTORTION	Harmonic: 0.06% at 1 kHz
INPUTS	1 optical SPDIF, toslink 1 coaxial SPDIF, RCA 2 auxiliary lines, 2 x RCA and 3.5 mm stereo jack
OUTPUTS	4-8 Ω loudspeakers, euroblock 1 aux line, 2 x RCA 1 headphones, 3.5 mm stereo jack
CONTROLS	Input audio signal selector Digital input signal type selector: optical or coaxial Master volume Headphone volume
INDICATOR LIGHTS	LED power indicator Input 1 signal LED indicator
POWER SUPPLY	12 V DC, 2 A including adapter
DIMENSIONS	205 x 25 x 108 mm depth
WEIGHT	0.6 kg (incl. adapter)

Wi-Fi stereo amplifier, great reliability and sound quality. A multiroom audio system that allows you to control various amplifiers and play different music programs. Playback via Wi-Fi, USB player and aux input and output. APP for control from smartphones and tablets. Compact construction for installation. Class D highly efficient amplification circuit.

WA-225W

FEATURES	Wi-Fi stereo amplifier. Multiroom audio system. APP for control from smartphones and tabl Wi-Fi playback of playlists, online music se and internet radio. 6 customisable preset buttons. USB player and auxiliary input. Steel housing for surface mounting. Stereo speaker output.
POWER	2 x 20 W RMS at 4 Ω
RESPONSE	20-17,000 Hz -3 dB
DISTORTION	Harmonic: < 0.04% at 1 kHz
INPUTS	1 aux, 3.5 mm jack 7,700 Ω 1 V 1 RJ-45 Ethernet
OUTPUTS	Loudspeakers: 4-8 Ω, press-in terminals
CONTROLS	Playback control and 6 customisable prese buttons
S/N RATIO	≤ 80 dB
POWER SUPPLY	15 V DC, 3 A including adapter
DIMENSIONS	227 x 38 x 100 mm depth
WEIGHT	0.8 kg (adapter included)

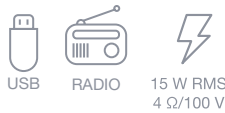


CLASS-D Wi-Fi USB App iOS/ANDROID MULTIROOM

PUBLIC ADDRESS AMPLIFIERS

BASICS

Public address amplifier with USB/MP3/FM player A perfect solution integrating amplifier, mixer, player, microphone and auxiliary inputs in a single unit, for PA installations with 100 V or low impedance loudspeakers requiring intuitive operation.



PROX-15

FEATURES

Public address amplifier.
USB/MP3/FM player.
Microphone input with mix, gain and priority level control.
Tone controls.
100 V and 4 Ω outputs.
Mounting on vehicles and desktop.



PROX-30

Public address amplifier.
USB/MP3/FM player.
Microphone input with mix, gain and priority level control.
Tone controls.
100 V and 4 Ω outputs.



PROX-60

Public address amplifier.
USB/MP3/FM player.
Microphone input with mix, gain and priority level control.
Tone controls.
100 V and 4 Ω outputs.

POWER	15 W RMS	30 W RMS	60 W RMS
RESPONSE	20-20,000 Hz ±3 dB		
DISTORTION	Harmonic: <1% at 1 kHz		
INPUTS	1 balanced/unbalanced micro, 6.3 mm jack/euroblock, 600 Ω 6 mV RMS 1 aux, 2 x RCA/euroblock, 47,000 Ω 300 mV RMS 1 x 100 V line, euroblock	1 balanced/unbalanced micro, 6.3 mm jack/euroblock, 600 Ω 6 mV RMS 2 aux, 2 x RCA/euroblock, 47,000 Ω 300 mV RMS 1 x 100 V line, euroblock	1 balanced mic, euroblock, 600 Ω 6 mV RMS 2 aux, 2 x RCA/euroblock, 47,000 Ω 300 mV RMS 1 x 100 V line, euroblock
FUNCTIONS	Forced ventilation with temperature sensitive speed Power on, protection, signal peak and output signal LED indicators 100 V input priority Mute by contact closure, euroblock		
CONTROLS	Microphone volume Selected input volume Input selector USB/MP3/FM player controls Tone: Bass and treble Microphone gain and priority		
PLAYER	USB/MP3 player with background music playback mode. When powered on, playback automatically starts in successive order Digital tuner with presets and auto scan Memory of last selected mode (USB/MP3 or FM), last played song or last tuned station and last selected play mode		
IMPEDANCE	4 Ω and 100 V line, euroblock		
POWER SUPPLY	230/115 V AC, 50 W and 12 V DC, 15 W	230/115 V AC, 100 W	230/115 V CA, 200 W
DIMENSIONS	254 x 84 x 260 mm depth		
WEIGHT	3.4 kg	3.8 kg	4.4 kg
ACCESSORIES	FM antenna		
OPTIONAL	PROX-15SP: surface assembly mount		

Mount for assembly in 19" rack PROX-15

PROX-15SP **NI**

FEATURES	"PROX-15 mount to install inside the car, van, etc. It is assembled and disassembled with great ease and speed in any type of vehicle."
DIMENSIONS	53 x 78 x 48 mm depth
WEIGHT	0.3 kg



PUBLIC ADDRESS AMPLIFIERS PREMIUM

FONESTAR

Public address amplifier with 6 auxiliary input selector and microphone with priority.
Suitable for commercial installations with multiple audio sources and priority announcements.




60 W RMS
8 Ω/100 V

MAX-62

FEATURES	Public address amplifier. Phantom power supply. Priority paging. 6 auxiliary inputs selector.
POWER	90 W max., 60 W RMS
RESPONSE	50-15,000 Hz
INPUTS	1 balanced micro, combo (XLR and 6.3 mm jack) 600 Ω 1 mV 6 aux, 2 x RCA , 47,000 Ω 650 mV 1 amp in, RCA 47,000 Ω 1 V RMS
OUTPUTS	1 aux, 2 x RCA, 47,000 Ω 1 V 1 pre out, RCA 600 Ω 1 V
CONTROLS	Tones: Bass: ±10 dB to 100 Hz Treble: ±10 dB to 10,000 Hz Volume: micro and aux 1 to 6 on back panel, master volume GND lift ground disconnection
PHANTOM	16 V in mic. 1, selectable
PRIORITY	Mic. 1 depending on signal level, selectable
IMPEDANCE	8 Ω 100 V line, screw terminals
POWER SUPPLY	230 V AC, 160 W 115 V AC on request
DIMENSIONS	425 x 85 x 275 mm depth. 2 U rack 19"
WEIGHT	6.2 kg
ACCESSORIES	Mounts for assembly in 19" rack

PUBLIC ADDRESS AMPLIFIERS

PREMIUM

Public address amplifier with 3 auxiliary input selector and microphone with priority.
Suitable for commercial installations with background music in multiple audio sources and priority announcements.



120 W RMS
4 Ω/100 V/70 V

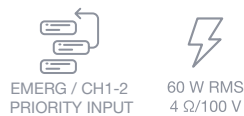
MPA-124U	
FEATURES	Public address amplifier. USB/SD/MP3 player. Phantom power supply. Tone control in each input. 3 auxiliary inputs selector. Individually selectable microphone priority. Chimes and alarm. Priority activation output in attenuators with 24 V relay.
POWER	180 W max., 120 W RMS
RESPONSE	50-16,000 Hz ±3 dB
DISTORTION	Harmonic: < 0.5% at 1 kHz
INPUTS	1 remote micro with PTT and warning tones, RJ45 4 balanced mics, XLR 2,000 Ω 2.5 - 200 mV, adjustable 3 aux, 2 x RCA 470 Ω 200 mV 1 amp in, RCA 10,000 Ω 1 V
OUTPUTS	1 rec out, 2 x RCA 470 Ω 200 mV 1 pre out RCA 470 Ω 1 V 1 master out, XLR 47,000 Ω 1 V 1 priority on 24 V DC attenuators, euroblock
CONTROLS	Tone: bass and treble per input, trimmer type Volume: inputs 1 to 4, aux and general volume
PHANTOM	48 V in mics. 1 to 4, selectable
PRIORITY	Mic.1 to 4 depending on signal level, selectable Contact closure warning ring tones. Contact closure remote microphone. Priority activation in attenuators with 24 V relay
CHIMES	2 chimes, advance notice and contact closure.
PROTECTIONS	Temperature, overload and short circuit
IMPEDANCE	4 Ω and 100 and 70 V lines, euroblock
POWER SUPPLY	230 V AC, 200 W and 24 V DC, 192 W
DIMENSIONS	483 x 89 x 340 mm depth. 2 U rack 19"
WEIGHT	9.7 kg



180 W RMS
4 Ω/100 V/70 V

MA-181RU	
FEATURES	Public address amplifier. USB/SD/MP3 player. Digital FM radio tuner. Phantom power supply. Priority paging.
POWER	180 W RMS
RESPONSE	Microphones: 80-18,000 Hz Auxiliary: 50-20,000 Hz
DISTORTION	Harmonic: < 1%
S/N RATIO	Microphones: > 60 dB Auxiliaries: > 70 dB
INPUTS	2 balanced micro/lines, combo (XLR and 6.3 mm jack) 600 Ω 1 mV and 10,000 Ω 45 mV, switchable 1 auxiliary, 2 x RCA, 90 mV RMS and 3.5 mm jack, 45 mV
OUTPUTS	1 line out, 2 x RCA, 700 mV
CONTROLS	Tone: Bass: ±10 dB Treble: ±10 dB Volume: inputs 1 to 2, aux/mp3, general volume and USB/SD/MP3/FM player
PLAYER	USB/SD/MP3 player and digital FM tuner with preset channels and auto scan
PHANTOM	24 V in mics. 1 to 2, selectable
PRIORITY	Mic. 1 and 2 through signal level
IMPEDANCE	4 Ω and 100 and 70 V lines, screw terminals
POWER SUPPLY	230/115 V AC, 250 W
DIMENSIONS	420 x 100 x 320 mm depth. 2 U rack 19"
WEIGHT	8.3 kg
ACCESSORIES	FM antenna 2 mounts for rack 19"

Public address single zone amplifier



PROX-60S N!

FEATURES	Public address amplifier Microphone inputs with mix, gain and priority level control. Input priorities by signal level. Tone controls. 100 V and 4 Ω outputs.
POWER	60 W RMS
RESPONSE	60-20,000 Hz (-10 dB)
DISTORTION	THD+N: < 1% @ 1 kHz
S/N RATIO	>77 dB
PROTECTIONS	Overcurrent, DC and short-circuit at the output
INPUTS	CH 1 balanced mic/line with 48V Phantom, Combo (XLR + 6.3mm) connector and euroblock. CH 2 balanced mic/line with 48V Phantom, Euroblock connector. Mic signal level: 6 mV RMS (-44 dBV) / 600 Ω Line signal level: 250 mV RMS (-12 dBV) / 100k Ω 2 AUX. 2 x RCA and euroblock connector. Signal level 300 mV RMS (-10 dBV) / 47,000 Ω 1 emergency. Euroblock connector. Signal level loudspeaker line 100 V 1 Mute (Emergency Priority) by contact closure. Euroblock connector
OUTPUTS	1 line, 2 x RCA connector. Signal level 1.25 V RMS (+2 dBV) 100 V or 4 Ω speaker output. Euroblock connector
IMPEDANCE	4 Ω and 100 V line (166 Ω)
FUNCTIONS	Input priority (voice over VOX inputs): 100 V Emergency input with highest priority, attenuates all other inputs Mute by contact closure, attenuates all inputs except the 100 V Emergency input. Channel 1 with priority over all other inputs, selectable level. Channel 2 with priority over auxiliary inputs, selectable level. Other functions: Power on, protection, signal peak and output signal indicator lights. Fanless induction cooling
CONTROLS	Microphone volume Mic/line/phantom selector Master volume Aux input selector Tone: bass and treble (+/- 10 dB 100 Hz and 10k Hz) Microphone gain Priority activation signal level (VOX)
TEMPERATURE	Operation: 0° ~ 40°C
MAXIMUM HUMIDITY	95%
POWER SUPPLY	230/115 V AC 50-60 Hz, 200 W Fuse AC 230 V 1.5 A / 115 V 3.15 A
DIMENSIONS	320 x 94 x 281 mm depth
WEIGHT	5 kg
ACCESSORIES	Power cable

PUBLIC ADDRESS AMPLIFIERS

PREMIUM

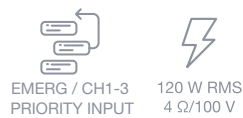
PA multi-zone amplifier



PROX-60Z **NI**

FEATURES	Public address amplifier Bluetooth®/USB/FM player. Microphone input with mix, gain and priority level control. Input priorities by signal level. Tone controls. 100 V and 4 Ω outputs. 2 output zones with volume and Off control.
POWER	60 W RMS
RESPONSE	60-20,000 Hz (-10 dB)
DISTORTION	THD+N: < 1% @ 1 kHz
S/N RATIO	>77 dB
PROTECTIONS	Overcurrent, DC and short-circuit at the output
INPUTS	CH 1 balanced mic/line with 48V Phantom, Combo (XLR + 6.3mm) connector and euroblock. CH 2 balanced mic/line with 48V Phantom, Euroblock connector. Mic signal level: 6 mV RMS (-44 dBV) / 600 Ω Line signal level: 250 mV RMS (-12 dBV) / 100k Ω 2 AUX. 2 x RCA and euroblock connector. Signal level 300 mV RMS (-10 dBV) / 47,000 Ω 1 emergency. Euroblock connector. Signal level loudspeaker line 100 V 1 Mute (Emergency Priority) by contact closure. Euroblock connector
OUTPUTS	1 line, 2 x RCA connector. Signal level 1.25 V RMS (+2 dBV) 100 V or 4 Ω speaker output, or 2 100 V speaker zones with 5-position volume selector and OFF. Euroblock connector
IMPEDANCE	4 Ω and 100 V line (166 Ω)
FUNCTIONS	Input priority (voice over VOX inputs): 100 V Emergency input with highest priority, attenuates all other inputs Mute by contact closure, attenuates all inputs except the 100 V Emergency input. Channel 1 with priority over all other inputs, selectable level. Channel 2 with priority over auxiliary inputs, selectable level. Other functions: Power on, protection, signal peak and output signal indicator lights. Fanless induction cooling
PLAYER	Bluetooth®/USB/FM player for background music playback MP3 and WAV files supported Maximum USB memory capacity 64 GB Autoplay, starts playback automatically on power on Memory of last selected mode Play mode memory (random, repeat)
CONTROLS	Microphone volume Mic/line/phantom selector Master volume Aux input or player selector Zone volume Tone: bass and treble (+/- 10 dB 100 Hz and 10k Hz) Microphone gain Priority activation signal level (VOX)
TEMPERATURE	Operation: 0° ~ 40°C
MAXIMUM HUMIDITY	95%
POWER SUPPLY	230/115 V AC 50-60 Hz, 200 W Fuse AC 230 V 1.5 A / 115 V 3.15 A
DIMENSIONS	320 x 94 x 281 mm depth
WEIGHT	5 kg
ACCESSORIES	FM antenna, Bluetooth® antenna, power cable

Public address single zone amplifier



PROX-120S N!

FEATURES	Public address amplifier Microphone inputs with mix, gain and priority level control. Input priorities by signal level. Tone controls. 100 V and 4 Ω outputs.
POWER	120 W RMS
RESPONSE	40-20,000 Hz (-10 dB)
DISTORTION	THD+N: < 1% @ 1 kHz
S/N RATIO	>77 dB
PROTECTIONS	Overcurrent, DC and short-circuit at the output
INPUTS	CH 1 balanced mic/line with 48V Phantom, Combo (XLR + 6.3mm) connector and euroblock. CH 2 and 3 mic/line balanced with 48V Phantom. Euroblock connector. Mic signal level: 6 mV RMS (-44 dBV) / 600 Ω Line signal level: 250 mV RMS (-12 dBV) / 100k Ω 2 AUX. 2 x RCA and euroblock connector. Signal level 300 mV RMS (-10 dBV) / 47,000 Ω 1 emergency. Euroblock connector. Signal level loudspeaker line 100 V 1 Mute (Emergency Priority) by contact closure. Euroblock connector
OUTPUTS	1 line, 2 x RCA connector. Signal level 1.25 V RMS (+2 dBV) 100 V or 4 Ω speaker output. Euroblock connector
IMPEDANCE	4 Ω and 100 V line (83 Ω)
FUNCTIONS	Input priority (voice over VOX inputs): 100V Emergency input with highest priority, attenuates all other inputs Mute by contact closure, attenuates all inputs except the 100V Emergency input Channel 1 with priority over all other inputs, level selectable Channel 2 and 3 with priority over auxiliary inputs, level selectable Other functions: Power on, protection, signal peak and output signal indicator lights Temperature-controlled forced ventilation cooling
CONTROLS	Microphone volume Mic/line/phantom selector Master volume Aux input selector Tone: bass and treble (+/- 10 dB 100 Hz and 10k Hz) Microphone gain Priority activation signal level (VOX)
TEMPERATURE	Operation: 0° ~ 40°C
MAXIMUM HUMIDITY	95%
POWER SUPPLY	230/115 V AC 50-60 Hz, 320 W Fuse AC 230 V 3.15 A / 115 V 6 A
DIMENSIONS	433 x 89 x 360 mm depth
WEIGHT	9.5 kg
ACCESSORIES	Power cable Rack mounts

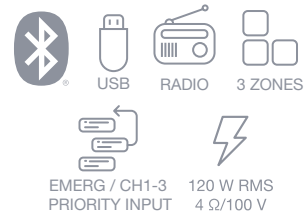
PUBLIC ADDRESS AMPLIFIERS

PREMIUM

PA multi-zone amplifier



Designed by
FONESTAR



PROX-120Z **N!**

FEATURES	Public address amplifier Bluetooth®/USB/FM player. Microphone input with mix, gain and priority level control. Input priorities by signal level. Tone controls. 100 V and 4 Ω outputs. 3 output zones with volume and Off control.
POWER	120 W RMS
RESPONSE	40-20,000 Hz (-10 dB)
DISTORTION	THD+N: < 1% @ 1 kHz
S/N RATIO	>77 dB
PROTECTIONS	Overcurrent, DC and short-circuit at the output
INPUTS	CH 1 balanced mic/line with 48V Phantom, Combo (XLR + 6.3mm) connector and euroblock. CH 2 and 3 mic/line balanced with 48V Phantom. Euroblock connector. Mic signal level: 6 mV RMS (-44 dBV) / 600 Ω Line signal level: 250 mV RMS (-12 dBV) / 100k Ω 2 AUX. 2 x RCA and euroblock connector. Signal level 300 mV RMS (-10 dBV) / 47,000 Ω 1 emergency. Euroblock connector. Signal level loudspeaker line 100 V 1 Mute (Emergency Priority) by contact closure. Euroblock connector
OUTPUTS	1 line, 2 x RCA connector. Signal level 1.25 V RMS (+2 dBV) 100 V or 4 Ω speaker output, or 3 100 V speaker zones with 5-position volume selector and OFF. Euroblock connector
IMPEDANCE	4 Ω and 100 V line (83Ω)
FUNCTIONS	Input priority (voice over VOX inputs): 100V Emergency input with highest priority, attenuates all other inputs Mute by contact closure, attenuates all inputs except the 100 V Emergency input Channel 1 with priority over all other inputs, level selectable Channel 2 and 3 with priority over auxiliary inputs and player, level selectable Other functions: Power on, protection, signal peak and output signal indicator lights Temperature-controlled forced ventilation cooling
PLAYER	Bluetooth®/USB/FM player for background music playback MP3 and WAV files supported Maximum USB memory capacity 64 GB Autoplay, starts playback automatically on power on Memory of last selected mode Play mode memory (random, repeat)
CONTROLS	Microphone volume Mic/line/phantom selector Master volume Aux input or player selector Zone volume Tone: bass and treble (+/- 10 dB 100 Hz and 10k Hz) Microphone gain Priority activation signal level (VOX)
TEMPERATURE	Operation: 0° ~ 40°C
MAXIMUM HUMIDITY	95%
POWER SUPPLY	230/115 V AC 50-60 Hz, 320 W Fuse AC 230 V 3.15 A / 115 V 6 A
DIMENSIONS	433 x 89 x 360 mm depth
WEIGHT	9.6kg
ACCESSORIES	FM antenna, Bluetooth® antenna, power cable, rack mounts

Public address single zone amplifier



EMERG / CH1-4
PRIORITY INPUT

240 W RMS
4 Ω/100 V

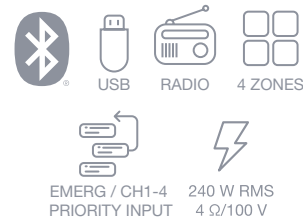
PROX-240S N!

FEATURES	Public address amplifier Microphone inputs with mix, gain and priority level control. Tone controls. 100 V and 4 Ω outputs.
POWER	240 W RMS
RESPONSE	40-20,000 Hz (-10 dB)
DISTORTION	THD+N: < 1% @ 1 kHz
S/N RATIO	>77 dB
PROTECTIONS	Overcurrent, DC and short-circuit at the output
INPUTS	CH 1 balanced mic/line with 48V Phantom, Combo (XLR + 6.3mm) connector and euroblock. CH 2, 3 and 4 mic/line balanced with 48V Phantom. Euroblock connector. Mic signal level: 6 mV RMS (-44 dBV) / 600 Ω Line signal level: 250 mV RMS (-12 dBV) / 100k Ω 2 AUX. 2 x RCA and euroblock connector. Signal level 300 mV RMS (-10 dBV) / 47,000 Ω 1 emergency. Euroblock connector. Signal level loudspeaker line 100 V 1 Mute (Emergency Priority) by contact closure. Euroblock connector
OUTPUTS	1 line, 2 x RCA connector. Signal level 1.25 V RMS (+2 dBV) 100 V or 4 Ω speaker output. Euroblock connector
IMPEDANCE	4 Ω and 100 V line (42 Ω)
FUNCTIONS	Input priority (voice over VOX inputs): 100V Emergency input with highest priority, attenuates all other inputs Mute by contact closure, attenuates all inputs except the 100 V Emergency input Channel 1 with priority over all other inputs, level selectable Channel 2, 3 and 4 with priority over auxiliary inputs, level selectable Other functions: Power on, protection, signal peak and output signal indicator lights Temperature-controlled forced ventilation cooling
CONTROLS	Microphone volume Mic/line/phantom selector Master volume Aux input selector Tone: bass and treble (+/- 10 dB 100 Hz and 10k Hz) Microphone gain Priority activation signal level (VOX)
TEMPERATURE	Operation: 0° ~ 40°C
MAXIMUM HUMIDITY	95%
POWER SUPPLY	230/115 V AC 50-60 Hz, 480 W Fuse AC 230 V 4 A / 115 V 8 A
DIMENSIONS	433 x 89 x 360 mm depth
WEIGHT	11.3 kg
ACCESSORIES	Power cable, rack mounts

PUBLIC ADDRESS AMPLIFIERS

PREMIUM

PA multi-zone amplifier



PROX-240Z

FEATURES	Public address amplifier Bluetooth®/USB/FM player. Microphone input with mix, gain and priority level control. Input priorities by signal level. Tone controls. 100 V and 4 Ω outputs. 4 output zones with volume and Off control.
POWER	240 W RMS
RESPONSE	40-20,000 Hz (-10 dB)
DISTORTION	THD+N: < 1% @ 1 kHz
S/N RATIO	>77 dB
PROTECTIONS	Overcurrent, DC and short-circuit at the output
INPUTS	CH 1 balanced mic/line with 48V Phantom, Combo (XLR + 6.3mm) connector and euroblock. CH 2, 3 and 4 mic/line balanced with 48V Phantom. Euroblock connector. Mic signal level: 6 mV RMS (-44 dBV) / 600 Ω Line signal level: 250 mV RMS (-12 dBV) / 100k Ω 2 AUX. 2 x RCA and euroblock connector. Signal level 300 mV RMS (-10 dBV) / 47,000 Ω 1 emergency. Euroblock connector. Signal level loudspeaker line 100 V 1 Mute (Emergency Priority) by contact closure. Euroblock connector
OUTPUTS	1 line, 2 x RCA connector. Signal level 1.25 V RMS (+2 dBV) 100 V or 4 Ω speaker output, or 4 100 V speaker zones with 5-position volume selector and OFF(Maximum 120 W RMS per zone). Euroblock connector
IMPEDANCE	4 Ω and 100 V line (42Ω)
FUNCTIONS	Input priority (voice over VOX inputs): 100V Emergency input with highest priority, attenuates all other inputs Mute by contact closure, attenuates all inputs except the 100V Emergency input Channel 1 with priority over all other inputs, level selectable Channel 2, 3 and 4 with priority over auxiliary inputs and player, level selectable Other functions: Power on, protection, signal peak and output signal indicator lights Temperature-controlled forced ventilation cooling
PLAYER	Bluetooth®/USB/FM player for background music playback MP3 and WAV files supported Maximum USB memory capacity 64 GB Autoplay, starts playback automatically on power on Memory of last selected mode Play mode memory (random, repeat)
CONTROLS	Microphone volume Mic/line/phantom selector Master volume Aux input or player selector Zone volume Tone: bass and treble (+/- 10 dB 100 Hz and 10k Hz) Microphone gain Priority activation signal level (VOX)
TEMPERATURE	Operation: 0° ~ 40°C
MAXIMUM HUMIDITY	95%
POWER SUPPLY	230/115 V AC 50-60 Hz, 480 W Fuse AC 230 V 4 A / 115 V 8 A
DIMENSIONS	433 x 89 x 360 mm depth
WEIGHT	11.5 kg
ACCESSORIES	FM antenna, Bluetooth® antenna, power cable, rack mounts

Public address amplifiers with excellent features and a variety of inputs and outputs.

Suitable for commercial, PA systems and distributed audio installations.

This model integrates a loudspeaker zone selector and also features a USB/SD/MP3 recorder/player and digital FM radio tuner.



MA-400RGUZ

FEATURES

Public address amplifier.
 USB/SD/MP3 recorder/player.
 Digital FM radio tuner.
 5 selectable speaker zones.
 Phantom power supply.
 Priority paging.
 Musical alert tones.
 Siren.
 Echo effect.

MA-680RGUZ

Public address amplifier.
 USB/SD/MP3 recorder/player.
 Digital FM radio tuner.
 5 selectable speaker zones.
 Phantom power supply.
 Priority paging.
 Musical alert tones.
 Siren.
 Echo effect.

POWER	450 W max., 400 W RMS	720 W max., 680 W RMS
RESPONSE	50-17,000 Hz ±3 dB	50-17,000 Hz ±3 dB
DISTORTION	Harmonic: < 0.5%	Harmonic: < 0.5%
INPUTS	4 balanced, combo mic/line (XLR and 6.3 mm jack) 600 Ω/47,000 Ω 3 mV RMS/300 mV RMS, 10 mV RMS/1 V RMS and euroblock 3 mV RMS/300 mV RMS 2 aux, 2 x RCA euroblock, 47,000 Ω 700 mV RMS 1 amp in, RCA 10,000 Ω 1 V RMS 1 tel. input, euroblock 600 Ω 320 mV RMS	4 balanced microphones/lines, combo (XLR and 6.3 mm jack) and euroblock 600 Ω 3 mV RMS and 47,000 Ω 200 mV RMS, switchable 2 aux, 2 x RCA euroblock, 47,000 Ω 750 mV RMS 1 amp in, RCA 10,000 Ω 1 V RMS 1 tel. input, euroblock 600 Ω 320 mV RMS
OUTPUTS	1 line out, 2 x RCA 47,000 Ω 500 mV RMS 1 pre out, RCA 600 Ω 1 V RMS	1 line out, 2 x RCA 47,000 Ω 500 mV RMS 1 pre out, RCA 600 Ω 1 V RMS
CONTROLS	Tone: Bass: ±10 dB Treble: ±10 dB Volume: 1 to 4 aux inputs, general volume and USB/SD/MP3 player	Tone: Bass: ±10 dB Treble: ±10 dB Volume: 1 to 4 aux inputs, general volume and USB/SD/MP3 player
PLAYER	USB/SD/MP3 recorder/player and digital FM tuner with pre-tuned channels and auto scan	USB/SD/MP3 recorder/player and digital FM tuner with pre-tuned channels and auto scan
PHANTOM	48 V in mics. 1 to 4, selectable	48 V in mics. 1 to 4, selectable
PRIORITY	Musical warning tones and siren by push-button and contact closure Tel. input by signal level Inputs 1 depending on signal level, selectable	Musical warning tones and siren by push-button and contact closure Tel. input by signal level Inputs 1 depending on signal level, selectable
ZONE SELECTOR	5 selectable speaker zones	5 selectable speaker zones
IMPEDANCE	4, 8 and 16 Ω and 100 and 70 V line, screw terminals	4, 8 and 16 Ω and 100 and 70 V line, screw terminals
POWER SUPPLY	230/115 V AC, 900 W	230/115 V AC, 1,100 W
DIMENSIONS	482 x 133 x 480 mm depth. 3 U rack 19"	482 x 133 x 480 mm depth. 3 U rack 19"
WEIGHT	17.4 kg	19.7 kg
ACCESSORIES	Antenna cable	Antenna cable

PUBLIC ADDRESS AMPLIFIERS

MASTER

PA multi-zone amplifier



MAX-120Z **NI**

FEATURES	<p>Class D public address amplifier and switch-mode power supply SMPS</p> <p>USB/FM player</p> <p>Microphone inputs with mix, gain and priority level control</p> <p>Ring tone generator (Chime)</p> <p>3 auxiliary inputs</p> <p>Emergency and mute input for connection to alarm and evacuation systems</p> <p>24 V attenuator priority</p> <p>Tone controls</p> <p>100 V, 70 V and 4 Ω outputs</p> <p>Output zones with volume and Off control</p>
POWER	120 W RMS
RESPONSE	45-22,000 Hz -10 dB (@5W)
DISTORTION	THD+N: <0.5% at 1 kHz
S/N RATIO	Mic >75 dB, Line >83 dB, Aux >81 dB
PROTECTIONS	Soft start, overcurrent, overload, temperature and short-circuit
INPUTS	<p>CH 1 mic/line balanced with 48V phantom. Combo connector (XLR + 6.3mm) and euroblock. Contact closure ring tones.</p> <p>CH 2 and 3 microphone/line balanced with Phantom 48V, euroblock. Mic: 600 Ω, 5.6 mV RMS (-45 dBV). Line: 100k Ω, 250 mV RMS (-12 dBV). Contact closure ring tones.</p> <p>3 aux, 2 x RCA, 47,000 Ω 316 mV RMS (-10 dBV)</p> <p>1 emergency line/100 V euroblock. Line: 326 mV RMS (-10 dBV). 100 V line</p> <p>Mute (Emergency Priority) by contact closure, euroblock</p> <p>1 Amp-in, RCA, 1.2 V RMS (+ 1.5 dBV)</p>
OUTPUTS	<p>1 REC, 2 x RCA, 316 mV RMS (-10 dBV). Pre-master</p> <p>1 Pre-out, RCA, 1.2 V RMS (+1.5 dBV)</p> <p>3 x 100 V loudspeaker zones with 7-position volume selector and OFF, euroblock</p> <p>1 attenuator priority, 24 V and contact closure</p>
FUNCTIONS	<p>Input priority:</p> <p>100 V Emergency input with highest priority, attenuates all other inputs</p> <p>Mute by contact closure, attenuates all inputs except the 100 V Emergency input</p> <p>Channel 1 with priority over all other inputs, level selectable</p> <p>Channel 2 and 3 with priority over aux and player inputs, level selectable</p> <p>Indicator lights for power, signal, clip, priority and protection activation</p> <p>Induction cooling, fanless. Silent and maintenance-free</p>
CONTROLS	<p>Microphone volume</p> <p>Mic/line/phantom selector, ring tones and priority</p> <p>Master volume</p> <p>Selector for auxiliary inputs or player</p> <p>Zones with power on and 7 volume positions</p> <p>Tone: bass and treble (+/- 10 dB 100 Hz and 10k Hz)</p> <p>Ring tone level</p> <p>Priority activation signal level (VOX)</p>
PLAYER	<p>USB/FM player for ambient music playback</p> <p>Autoplay, starts playback automatically when switched on</p> <p>Memory of last selected mode</p> <p>Playback mode memory (random, repeat)</p>
IMPEDANCE	4 Ω, 100 V line (42 Ω) and 70 V (20 Ω), euroblock
TEMPERATURE	<p>Operation: -10° ~ 40°C</p> <p>Storage: -20° to 60°C</p>
MAXIMUM HUMIDITY	90%
POWER SUPPLY	<p>230/115 V AC, 50-60Hz</p> <p>Power consumption: 175 W</p> <p>AC fuse 230 V 2 A / 115 V 4 A</p>
DIMENSIONS	430 x 89 x 320 mm depth.
WEIGHT	7 kg
ACCESSORIES	FM antenna, power cable, rack mounts

PA multi-zone amplifier



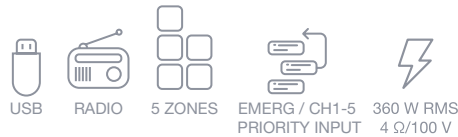
MAX-240Z NI

FEATURES	Class D public address amplifier and switch-mode power supply SMPS USB/FM player Microphone inputs with mix, gain and priority level control Ring tone generator (Chime) 3 auxiliary inputs Emergency and mute input for connection to alarm and evacuation systems 24 V attenuator priority Tone controls 100 V, 70 V and 4 Ω outputs Output zones with volume and Off control
POWER	240 W RMS
RESPONSE	45-22,000 Hz -10 dB (@5W)
DISTORTION	THD+N: <0.5% at 1 kHz
S/N RATIO	Mic >75 dB, Line >83 dB, Aux >81 dB
PROTECTIONS	Soft start, overcurrent, overload, overload, temperature and short-circuit
INPUTS	CH 1: 1 balanced mic/line with 48 V Phantom, Combo (XLR + 6.3 mm) and euroblock. Mic: 600 Ω, 5.6 mV RMS (-45 dBV). Line: 100k Ω, 250 mV RMS (-12 dBV). Contact closure ring tones. CH 2, 3 and 4: 3 balanced mic/line with Phantom 48V, euroblock. Mic: 600 Ω, 5.6 mV RMS (-45 dBV). Line: 100k Ω, 250 mV RMS (-12 dBV). Contact closure ring tones. 3 aux, 2 x RCA, 47,000 Ω 316 mV RMS (-10 dBV) 1 emergency line/100 V euroblock. Line: 326 mV RMS (-10 dBV). 100 V line Mute (Emergency Priority) by contact closure, euroblock 1 Amp-in, RCA, 1.2 V RMS (+ 1.5 dBV)
OUTPUTS	1 REC, 2 x RCA, 316 mV RMS (-10 dBV). Pre-master 1 Pre-out, RCA, 1.2 V RMS (+1.5 dBV) 4 x 100 V loudspeaker zones with 7-position volume selector and OFF, euroblock 1 attenuator priority, 24 V and contact closure
FUNCTIONS	Input priority: 100 V Emergency input with highest priority, attenuates all other inputs Mute by contact closure, attenuates all inputs except the 100 V Emergency input Channel 1 with priority over all other inputs, level selectable Channel 2, 3 and 4 with priority over aux and player inputs, level selectable Indicator lights for power, signal, clip, priority and protection activation Induction cooling, fanless. Silent and maintenance-free
CONTROLS	Microphone volume Mic/line/phantom selector, ring tones and priority Master volume Selector for auxiliary inputs or player Zones with power on and 7 volume positions Tone: bass and treble (+/- 10 dB 100 Hz and 10k Hz) Ring tone level Priority activation signal level (VOX)
PLAYER	USB/FM player for ambient music playback Autoplay, starts playback automatically when switched on Memory of last selected mode Playback mode memory (random, repeat)
IMPEDANCE	4 Ω, 100 V line (42 Ω) and 70 V (20 Ω), euroblock
TEMPERATURE	Operation: -10° ~ 40°C Storage: -20° to 60°C
MAXIMUM HUMIDITY	90%
POWER SUPPLY	230/115 V AC, 50-60Hz Power consumption: 345 W AC fuse 230 V 4 A / 115 V 8 A
DIMENSIONS	430 x 89 x 320 mm depth.
WEIGHT	10 kg
ACCESSORIES	FM antenna, Power cable, Rack mounts

PUBLIC ADDRESS AMPLIFIERS

MASTER

PA multi-zone amplifier



MAX-360Z **N!**

FEATURES	<p>Class D public address amplifier and switch-mode power supply SMPS</p> <p>USB/FM player</p> <p>Microphone inputs with mix, gain and priority level control</p> <p>Ring tone generator (Chime)</p> <p>3 auxiliary inputs</p> <p>Emergency and mute input for connection to alarm and evacuation systems</p> <p>24 V attenuator priority</p> <p>Tone controls</p> <p>100 V, 70 V and 4 Ω outputs</p> <p>Output zones with volume and Off control</p>
POWER	360 W RMS
RESPONSE	45-22,000 Hz -10 dB (@5W)
DISTORTION	THD+N: <0.5% at 1 kHz
S/N RATIO	Mic >75 dB, Line >83 dB, Aux >81 dB
PROTECTIONS	Soft start, overcurrent, overload, overload, temperature and short-circuit
INPUTS	<p>CH 1: 1 balanced mic/line with 48 V Phantom, Combo (XLR + 6.3 mm) and euroblock. Mic: 600 Ω, 5.6 mV RMS (-45 dBV). Line: 100k Ω, 250 mV RMS (-12 dBV). Contact closure ring tones.</p> <p>CH 2, 3, 4 and 5: 2 balanced mic/line with Phantom 48V, euroblock. Mic: 600 Ω, 5.6 mV RMS (-45 dBV). Line: 100k Ω, 250 mV RMS (-12 dBV). Contact closure ring tones.</p> <p>3 aux, 2 x RCA, 47,000 Ω 316 mV RMS (-10 dBV)</p> <p>1 emergency line/100 V euroblock. Line: 326 mV RMS (-10 dBV). 100 V line</p> <p>Mute (Emergency Priority) by contact closure, euroblock</p> <p>1 Amp-in, RCA, 1.2 V RMS (+ 1.5 dBV)</p>
OUTPUTS	<p>1 REC, 2 x RCA, 316 mV RMS (-10 dBV). Pre-master</p> <p>1 Pre-out, RCA, 1.2 V RMS (+1.5 dBV)</p> <p>5 x 100 V loudspeaker zones with 7-position volume selector and OFF, euroblock Maximum 240 W per zone</p> <p>1 Attenuator priority, 24 V and contact closure</p>
FUNCTIONS	<p>Input priority:</p> <p>100 V Emergency input with highest priority, attenuates all other inputs</p> <p>Mute by contact closure, attenuates all inputs except the 100 V Emergency input</p> <p>Channel 1 with priority over all other inputs, level selectable</p> <p>Channel 2, 3, 4 and 5 with priority over auxiliary and player inputs, level selectable</p> <p>Indicator lights for power, signal, clip, priority and protection activation</p> <p>Induction cooling, fanless. Silent and maintenance-free</p>
CONTROLS	<p>Microphone volume</p> <p>Mic/line/phantom selector, ring tones and priority</p> <p>Master volume</p> <p>Selector for auxiliary inputs or player</p> <p>Zones with power on and 7 volume positions</p> <p>Tone: bass and treble (+/- 10 dB 100 Hz and 10k Hz)</p> <p>Ring tone level</p> <p>Priority activation signal level (VOX)</p>
PLAYER	<p>USB/FM player for ambient music playback</p> <p>Autoplay, starts playback automatically when switched on</p> <p>Memory of last selected mode</p> <p>Playback mode memory (random, repeat)</p>
IMPEDANCE	4 Ω, 100 V line (27 Ω) and 70 V (13 Ω), euroblock
TEMPERATURE	<p>Operation: -10° ~ 40°C</p> <p>Storage: -20° to 60°C</p>
MAXIMUM HUMIDITY	90%
POWER SUPPLY	<p>230/115 V AC, 50-60Hz</p> <p>Power consumption: 490 W</p> <p>AC fuse 230 V 6 A / 115 V 12 A</p>
DIMENSIONS	430 x 89 x 320 mm depth.
WEIGHT	12 kg
ACCESSORIES	FM antenna, power cable, rack mounts

PUBLIC ADDRESS AMPLIFIERS

MULTI-CHANNEL AUDIO MATRIX

FONESTAR

5-channel input to 6-zone output matrix amplifier with independent volume control. USB/SD/MP3 player and digital FM radio tuner. Suitable for commercial installations with various zones and different music programs.



MAZ-6600RU

FEATURES

Matrix and multi-channel amplifier.
Allocation matrix of 5 input channels to 6 output zones.
USB/SD player for MP3 files.
Digital FM tuner.
6 zones with independent volume control.
Phantom power supply.
Musical alert tones.
Priority paging.
Remote control for USB/SD/MP3/FM player.

POWER	6 x 100 W RMS
RESPONSE	80-18,000 Hz ± 3 dB
DISTORTION	Harmonic: < 1%
S/N RATIO	Microphones: > 65 dB Auxiliaries: > 75 dB
INPUTS	1 unbalanced micro, 6.3 mm jack, 5 mV 2 balanced micro/lines, combo (XLR and 6.3 mm jack) 5 mV and 175 mV, switchable 1 stereo aux TAPE/CD/AUX, 2 x RCA 220 mV, 150 mV, 110 mV, selectable 1 stereo aux, 3.5 mm jack, 100 mV
OUTPUTS	1 stereo monitor, 6.3 mm jack
CONTROLS	6 zone buttons 1 to 6 for each input channel 2 to 5 and USB/SD/MP3/FM player Channels 1 to 4: volume, bass and treble control Zones 1 to 6: volume controls and monitor selector Monitor volume
PLAYER	USB/SD/MP3 player and digital FM tuner with preset channels and auto scan
PHANTOM	48 V in mics 2 to 3, selectable
PRIORITY	Mic. 1 through signal level or contact closure, selectable
IMPEDANCE	6 zones: 8 Ω and 100 and 70 V lines, screw terminals
POWER SUPPLY	230-115 V AC, 1,000 W max
DIMENSIONS	481 x 133 x 341 mm depth. 3 U rack 19"
WEIGHT	17.5 kg
ACCESSORIES	FM antenna Mounts for assembly in 19" rack

PUBLIC ADDRESS AMPLIFIERS

MULTI-CHANNEL AUDIO MATRIX

5-channel input to 6-zone output matrix amplifier with independent volume control. USB/SD/MP3 player and digital FM radio tuner. Suitable for commercial installations with various zones and different music programs.



MAZ-4160/MAZ-4480



MAZ-4160



MAZ-4480

MAZ-4160

MAZ-4480

FEATURES	MAZ-4160	MAZ-4480
POWER	4 x 60 W maximum, 4 x 45 W RMS	4 x 135 W maximum, 4 x 120 W RMS
RESPONSE	50-17,000 Hz ± 3 dB	60-17,000 Hz ± 3 dB
DISTORTION	Harmonic: < 0.5%	Harmonic: < 1%
INPUTS	3 balanced micro/line, combo (XLR and 6.3 mm jack) 600 Ω 2 mV RMS and 15,000 Ω 300 mV RMS, switchable 2 aux, 2 x RCA, 50,000 Ω 300 mV RMS 1 paging tel., screw terminals 600 Ω 100-300 mV RMS	4 balanced micro/lines, combo (XLR and 6.3 mm jack) 600 Ω 7 mV and 15,000 Ω 100 mV, switchable 1 aux, 2 x RCA 50,000 Ω 300 mV 1 paging tel., screw terminals 600 Ω 100-300 mV
OUTPUTS	4 balanced or unbalanced line zones 1 to 4, screw terminals 1 monitor, screw terminals 600 Ω 900 mV RMS and 1 W 8 Ω 1 stereo headphones, jack 3.5 mm 47 Ω 0.5 W	4 balanced or unbalanced line zones 1 to 4, screw terminals 1 monitor, screw terminals 600 Ω 775 mV and 1 W 8 Ω 1 stereo headphones, jack 3.5 mm 47 Ω 0.5 W
CONTROLS	Channels 1 to 5: gain, bass, treble, volume and zone assignment Tel. paging: volume and zone selector Zones 1 to 4: volume and monitor selector Monitor headphones volume	Channels 1 to 5: gain, bass, treble, volume and zone assignment Tel. paging: volume and zone selector Zones 1 to 4: volume and monitor selector Monitor headphones volume
PHANTOM	15 V in mics. 1 to 3, selectable	48 V in mics. 1 to 4, selectable
PRIORITY	Paging tel. and input 1 per signal level, selectable Input 1 by contact closure.	Paging tel. and input 1 per signal level, selectable Input 1 by contact closure, selectable
IMPEDANCE	4 zones: 4 and 8 Ω and 100, 70 and 25 V lines, screw terminals	4 zones: 4 and 8 Ω and 100, 70 and 25 V lines, screw terminals
POWER SUPPLY	230-115 V AC, 800 W max	230/115 V AC, 1,200 W max
DIMENSIONS	483 x 133 x 335 mm depth. 3 U rack 19"	483 x 133 x 410 mm depth. 3 U rack 19"
WEIGHT	15.5 kg	20.7 kg

PUBLIC ADDRESS AMPLIFIER LOOP AMPLIFIER

FONESTAR

Induction loop monozone amplifier for window



AUDIFON-V **N!**

FEATURES	Tele-coil hearing aid loop amplifier. Complete kit for installation on counter and or teller window.
FUNCTIONS	1.2 m ² counter loop Extendable up to 20 m ² (using a 4.5 x 4.5 m loop in 4 turns) LED operation indicators. Countertop or under-counter installation.
POWER	5 W RMS, THD 2.5%
FREQUENCY RESPONSE	35 – 20k Hz, -10 dBA
DISTORTION	THD+N <0.2%, 1 kHz, 1W
PROTECTIONS	Overheating and overloading
CONTROLS	On/off Microphone and AUX volume Output volume
INPUTS	1 clip-on microphone, 3.5 mm TS jack, 1.5 mV, Phantom 5 V 1 mA 1 AUX, 3.5 mm TRS jack, 250 mV
OUTPUT	1 Loop, Euroblock
LOOP	Loop for counter 1.2 m ² included. For loop extension use recommended cable 0.22 - 1.5 mm ² , maximum length 70 m, impedance 0.5 - 3 Ohm
CURRENT	2:00 AM
POWER SUPPLY	12 V DC, 1 A with adapter included Power consumption: 10 W Standby power consumption: 0.5 W
DIMENSIONS	Amplifier: 155 x 35 x 75 mm depth Clip-on microphone cable: 1.40 m 70 x 70 cm loop cable (1.2 m ² coverage) with 1.8 m extension cable
WEIGHT	0.3 kg
ACCESSORIES	Unidirectional clip-on microphone Loop cable Adhesive T
CERTIFICATION	CE marked In compliance with EN IEC 60118-4:2015-A1:2018 (Electroacoustics. Hearing aids. Part 4: Induction loop systems for hearing aids. System operating requirements).

MIXER/PREAMPLIFIER

MULTI-CHANNEL AUDIO MATRIX

Microphone/line mixer with output zones and independent volume control.



MX-867RU

FEATURES

Mixer/preamplifier.
Microphone input with paging priority.
Allocation matrix of 5 input channels to 4 output zones.
USB/SD player for MP3 files.
Digital FM radio tuner.
4 speaker zones with independent volume control.
Remote zone volume control.
Phantom power supply.

INPUTS

1 balanced micro, 6.3 mm jack, 3 mV
1 balanced micro, combo (XLR and 6.3 mm jack), 3 mV
2 balanced micro/lines, combo (XLR and 6.3 mm jack) adjustable, mV and 175 mV
1 stereo aux, 2 x RCA , 175 mV
1 stereo aux, 3.5 mm jack

OUTPUTS

4 balanced zones, XLR, 2.5 V maximum
Remote zone volume control
1 stereo monitor, 6.3 mm jack, 1 V

CONTROLS

4 zone allocation microswitches 1 to 4
Inputs 1 to 4: volume control
Inputs 2 and 3: gain control
Zones 1 to 4: volume control
Monitor: volume and zone allocation control
USB/SD player
FM tuner

RESPONSE

20-20,000 Hz

DISTORTION

Harmonic: < 0.2 % at 1 kHz

S/N RATIO

Microphone > 65 dB
Auxiliary/Line > 80 dB

PHANTOM

48 V in mics 2 and 3, selectable

PRIORITY

Mic. 1 depending on signal level, selectable

POWER SUPPLY

230/115 V AC, 9 W

DIMENSIONS

483 x 44.5 x 200 mm depth. 1 U rack 19"

WEIGHT

3 kg

MIXER/PREAMPLIFIER FOR INSTALLATIONS

FONESTAR



Professional mixer/preamplifier with 9 channels, 6 of them switchable between microphone or auxiliary line and 3 line channels. Phantom power supply and priority. 1 stereo or mono output zone.

MX-848

FEATURES	Mixer/preamplifier. Microphone input with paging priority. Phantom power supply. Output level indicator lights.
INPUTS	6 balanced micro/lines, combo (XLR and 6.3 mm jack), 1,500 Ω 7.7 mV and 10,000 Ω 775 mV, switchable 3 aux stereo, 2 x RCA, 10,000 Ω 775 mV
OUTPUTS	1 balanced stereo master, XLR, 120 Ω 2.5 V maximum 1 balanced mono master, 6.3 mm jack, 120 Ω 2.5 V maximum 1 mix out balanced mono, 120 Ω 6.3 mm jack 1 line out, 2 x RCA 1,000 Ω 775 mV
CONTROLS	Tone: bass, middle and treble at master output Volume: inputs 1 to 12 and master volume (stereo and mono master)
RESPONSE	10-20,000 Hz
DISTORTION	Harmonic: < 0.05 % at 1 kHz
S/N RATIO	Microphone > 70 dB Auxiliary/Line > 103 dB
PHANTOM	18 V in mics. 1 to 6, selectable
PRIORITY	Mic. 1 depending on signal level, selectable
POWER SUPPLY	230 V AC, 18 W and 24 V DC, 500 mA 115 V AC on request
DIMENSIONS	483 x 44 x 220 mm depth. 1 U rack 19"
WEIGHT	3 kg



7-channel microphone/line mixer with acoustic feedback suppressor via frequency shift. Independent volume and acoustic feedback suppression controls. Effectively eliminates acoustic feedback or coupling with minimal distortion. Easy to use.

MX-875-SR

FEATURES	Mixer/preamplifier. 7 channels, 6 microphones and 1 aux line. Phantom power supply for the XLR inputs. Feedback suppressor.
INPUTS	6 balanced micro XLR and unbalanced, 6.3 mm jack 5,000 Ω 2.5 mV 1 mono line, 2 x RCA 5,000 Ω 1 V
OUTPUTS	1 balanced stereo master, 2 x XLR, 10,000 Ω 1.7 V maximum 1 unbalanced mono line, 2 x RCA 600 Ω 2.5 V
CONTROLS	Volume, feedback suppression, phantom power supply and master output volume
RESPONSE	20-20,000 Hz without feedback suppression 150-15,000 Hz with feedback suppression
FEEDBACK SUPPRESSOR	Frequency displacement 5 Hz ±1 Hz
PHANTOM	48 V in mics. 1 to 6, selectable
POWER SUPPLY	230/115 V AC, 12 W
DIMENSIONS	483 x 44.5 x 225 mm depth. 1 U rack 19"
WEIGHT	2.6 kg
ACCESSORIES	1 cable 2 x RCA 2 cables XLR

MIXER/PREAMPLIFIER FOR INSTALLATIONS

Passive microphone mixer and auxiliary input.



CB-119

FEATURES	Passive mixer with 3 microphones and 1 aux input. Mic. level output for connection to 1 microphone input.
INPUTS	3 unbalanced mic, 6.3 mm jack 1 aux, 2 x RCA
OUTPUTS	1 unbalanced mic, 6.3 mm jack
CONTROLS	Volume through input
DIMENSIONS	145 x 31 x 76 mm depth
WEIGHT	0.2 kg
ACCESSORIES	1 audio cable, 6.3 mm mono plug to 6.3 mm mono plug, 1.8 m

12-channel microphone mixer with independent volume control and 48 V phantom power.
Allows you to easily expand the number of microphones in a sound system.



MX-824

FEATURES	12-channel professional mixer/preamplifier. Phantom power supply.
INPUTS	12 balanced mics, XLR 600 Ω 2.5 mV
OUTPUTS	1 balanced master XLR 600 Ω 7 mV and unbalanced 2 x RCA 4,700 Ω 150 mV
CONTROLS	Volume per master input and output
RESPONSE	50-20,000 Hz
S/N RATIO	> 60 dB
PHANTOM	48 V in mics. 1 to 12, selectable
POWER SUPPLY	230/115 V AC, 10 W
DIMENSIONS	483 x 44.5 x 225 mm depth. 1 U rack 19"
WEIGHT	2.7 kg
ACCESSORIES	1 RCA cable 1 XLR cable

PUBLIC ADDRESS POWER AMPLIFIER SINGLE-CHANNEL

Single-channel power amplifier with 100 V line output.

FONESTAR



1,000 W RMS
4 Ω/100 V/70 V

FS-11000E

FEATURES	Mono power amplifier.
POWER	1,250 W max., 1,000 W RMS
RESPONSE	30-20,000 Hz ±3 dB
DISTORTION	Harmonic: < 1 %
INPUTS	1 balanced/unbalanced auxiliary line, XLR, euroblock/jack 6'3 mm and 2 x RCA 10.000 Ω, 1.4 V RMS/1 V RMS
OUTPUTS	1 balanced/unbalanced aux line, XLR, euroblock/6.3 mm jack and 2 x RCA
FUNCTIONS	Forced ventilation with temperature sensitive speed Protection, signal peak and output signal LED indicators
PROTECTIONS	2 circuits: temperature and short circuit
CONTROLS	Master volume on the rear panel GND lift ground disconnection
IMPEDANCE	4 Ω and 100 and 70 V lines, screw terminals
POWER SUPPLY	230-115 V AC, 1,400 W max
DIMENSIONS	483 x 133 x 440 mm depth. 3 U rack 19"
WEIGHT	21.5 kg

PUBLIC ADDRESS POWER AMPLIFIER SINGLE-CHANNEL

Single-channel power amplifier with 100 V line output.



FS-1240E



FS-2601E



240 W RMS
4 y 8 Ω/100 V/70 V



600 W RMS
4 y 8 Ω/100 V/70 V

FS-1240E

FS-2601E

FEATURES	Mono power amplifier	Mono power amplifier.
POWER	300 W max., 240 W RMS	700 W max., 600 W RMS
RESPONSE	50-22,000 Hz ±3 dB	50-22,000 Hz ±3 dB
DISTORTION	Harmonic: < 0.5%	Harmonic: < 0.5%
INPUTS	1 balanced aux line, XLR and 6.3 mm jack 20,000 Ω, 1 V RMS	1 balanced aux line, XLR and 6.3 mm jack 20,000 Ω, 1 V RMS
OUTPUTS	1 balanced auxiliary line, XLR and 6.3 mm jack	1 balanced auxiliary line, XLR and 6.3 mm jack
FUNCTIONS	Forced ventilation with temperature sensitive speed Automatic input signal compression Protection, signal peak and output signal LED indicators	Forced ventilation with temperature sensitive speed Automatic input signal compression Indicator lights for temperature, protection, signal peak and output signal
PROTECTIONS	3 circuits: temperature, short-circuit, and overload	3 circuits: temperature, short-circuit, and overload
CONTROLS	Tone: bass, middle and treble ± 12 dB Master volume	Tone: bass, middle and treble ± 12 dB Master volume
IMPEDANCE	4 and 8 Ω and 100 and 70 V lines, screw terminals and bananas	4 and 8 Ω and 100 and 70 V lines, screw terminals and bananas
POWER SUPPLY	230/115 V AC, 600 W maximum and 24 V DC, 480 W	230 V AC, 1,000 W max Resettable fuse 6 A
DIMENSIONS	483 x 89 x 329 mm depth. 2 U rack 19"	483 x 89 x 435 mm depth. 2 U rack 19"
WEIGHT	11.9 kg	17 kg

PUBLIC ADDRESS POWER AMPLIFIER MULTI-CHANNEL

FONESTAR

Multi-channel power amplifier with 100 V output.



FSD-2150E



FSD-2500E



CLASS-D 2 CH 2 x 135 W RMS 100 V/70 V DANTE COMPATIBLE 1U

CLASS-D 2 CH 2 x 400 W RMS 100 V/70 V DANTE COMPATIBLE 1U

FSD-2150E

FSD-2500E

FEATURES	FSD-2150E	FSD-2500E
POWER	2 x 135 W RMS or 1 x 150 W RMS (single channel)	2 x 400 W RMS or 1 x 480 W RMS (single channel)
RESPONSE	100-15,000 Hz ±3 dB	100-15,000 Hz ±3 dB
DISTORTION	Harmonic: < 0.1 %	Harmonic: < 0.1 %
INPUTS	2 balanced/unbalanced auxiliary lines, euroblock, 20,000 Ω/10,000 Ω, 0.9-1.1 V RMS 1 emergency/test, euroblock	2 balanced/unbalanced auxiliary lines, euroblock, 20,000 Ω/10,000 Ω, 0.9-1.1 V RMS 1 emergency/test, euroblock
OUTPUTS	1 GPIO fault signalling output, 5 V DC, euroblock	1 GPIO fault signalling output, 5 V DC, euroblock
FUNCTIONS	Forced ventilation with temperature sensitive speed Power on, protection, priority and signal peak indicator lights Emergency input priority/test by contact closure, euroblock Disable/mute by contact closure, euroblock	Forced ventilation with temperature sensitive speed Power on, protection, priority and signal peak indicator lights Emergency input priority/test by contact closure, euroblock Disable/mute by contact closure, euroblock
PROTECTIONS	Short circuit, open circuit, temperature, ultrasound and radio frequency	Short circuit, open circuit, temperature, ultrasound and radio frequency
CONTROLS	Volume of each channel 100/70 V selector switch on rear panel	Volume of each channel 100/70 V selector switch on rear panel
IMPEDANCE	100 and 70 V lines, euroblock	100 and 70 V, euroblock
POWER SUPPLY	230-115 V AC, 400 W max	230/115 V AC, 1,200 W max
DIMENSIONS	483 x 44 x 380 mm depth. 1 U rack 19"	483 x 44 x 380 mm depth. 1 U rack 19"
WEIGHT	4.75 kg	5.15 kg
OPTIONAL	FSD-22D: DANTE expansion module	FSD-22D: DANTE expansion module
ACCESSORIES	Anti-slip adhesive pads	Anti-slip adhesive pads



DANTE COMPATIBLE 2 IN x 2 OUT

FSD-22D

FEATURES	FSD-22D
FEATURES	DANTE expansion module. Connections via RJ-45, Cat 5e cable. 2 DANTE ports, 2 x RJ-45 (Primary and Secondary) Device auto-discovery.
CHANNELS	2 x 2 digital audio input/output
SAMPLING RATE	44.1 kHz, 48 kHz, 88.2 kHz and 96 kHz
BIT DEPTH	16, 24 and 32 bits
CONNECTION	Cable RJ-45, Cat 5e
LATENCY	1 ms
DIMENSIONS	90 x 20 x 88 mm depth
WEIGHT	0.12 kg

PUBLIC ADDRESS POWER AMPLIFIER MULTI-CHANNEL

Multi-channel power amplifier with 100 V output.



FSD-4500E

FEATURES	4-channel public address power amplifier. 100 V or 70 V output for public address installations. Highly efficient class D amplifier with high reliability due to low-maintenance protection circuits. Euroblock connectors, safe and easy to connect. Great sound quality and low noise.
POWER	4 x 400 W RMS or 2 x 480 W RMS (with single channel of either A/B or C/D)
RESPONSE	30-15,000 Hz ± 3 dB
DISTORTION	Harmonic: < 0.1 %
INPUTS	4 balanced/unbalanced auxiliary lines, euroblock, 20,000 Ω /10,000 Ω , 0.9-1.1 V RMS 1 emergency/test, euroblock
OUTPUTS	1 GPIO fault signalling output, 5 V DC, euroblock
FUNCTIONS	Forced ventilation with temperature sensitive speed Power on, protection, priority and signal peak indicator lights Emergency input priority/test by contact closure, euroblock Disable/mute by contact closure, euroblock
PROTECTIONS	Short circuit, open circuit, temperature, ultrasound and radio frequency
CONTROLS	Volume of each channel 100/70 V selector switch on rear panel
IMPEDANCE	100 and 70 V, euroblock
POWER SUPPLY	230-115 V AC, 1,500 W max
DIMENSIONS	483 x 44 x 380 mm depth. 1 U rack 19"
WEIGHT	6.35 kg
ACCESSORIES	Anti-slip adhesive pads

FSD-44D

FEATURES	"DANTE expansion module. Compatible with FSD-4500E public address power amplifier. Connections via RJ-45, Cat 5e cable. 2 DANTE ports, 2 x RJ-45 (Primary and Secondary) Device auto-discovery."
CHANNELS	4 x 4 digital audio input/output
SAMPLING RATE	44.1 kHz, 48 kHz, 88.2 kHz and 96 kHz
BIT DEPTH	16, 24 and 32 bits
CONNECTION	Cable RJ-45, Cat 5e
LATENCY	1 ms
DIMENSIONS	90 x 20 x 88 mm depth
WEIGHT	0.12 kg
CONTROLS	Volume of each channel 100/70 V selector switch on rear panel
IMPEDANCE	100 and 70 V, euroblock
POWER SUPPLY	230-115 V AC, 1,500 W max
DIMENSIONS	483 x 44 x 380 mm depth. 1 U rack 19"
WEIGHT	6.35 kg
ACCESSORIES	Anti-slip adhesive pads



CONFERENCE SYSTEM BASIC

FONESTAR

Conference system designed for rooms equipped with public address.
The system allows a telephone to be connected to intervene in the conference.
The control unit provides an output signal for recording, amplifying or distribution.
Allows connection of up to 64 microphones.



SCF-260P

SCF-270D

SCF-250

	SCF-250	SCF-260P	SCF-270D
FEATURES	Control unit for power supply system. Telephone connection input. Allows connection of up to 64 microphones. Selector of maximum number of microphones in use.	President microphone with speech priority and the possibility of cancelling delegate microphones. Metal microphone base.	Delegate microphone. Metal microphone base.
MICROPHONE	-	Unidirectional electret condenser	Unidirectional electret condenser
RESPONSE	20-18,000 Hz	20-18,000 Hz	20-18,000 Hz
CONTROLS	Master volume Bass, mid and treble control Selector for number of active microphones	Push-to-talk button Priority over delegate microphones.	Push-to-talk button
INDICATOR LIGHTS	On/off	Operating and indicator LED ring	Operating and indicator LED ring
INPUTS	1 telephone switchboard extension, RCA 4 groups of microphones, female DIN 8 for system interconnection	Power and audio, interconnecting cable 1.1 m DIN 8 male	Power and audio, interconnecting cable 1.1 m DIN 8 male
OUTPUTS	1 extension, DIN 8 1 line, XLR and 2 x RCA 1 telephone switchboard extension, RCA	Audio, interconnection cable	Audio, interconnection cable
POWER SUPPLY	230/115 V AC, 100 W	18 V DC, supplied by control unit	18 V DC, supplied by control unit
DIMENSIONS	482 x 44 x 353 mm depth. 1 U rack 19"	Gooseneck microphone: 390 mm high Base: 115 x 45 x 160 mm depth	Gooseneck microphone: 390 mm high Base: 115 x 45 x 160 mm depth
WEIGHT	5 kg	0.9 kg	0.9 kg
ACCESSORIES	1 extension cable 13 m for interconnection with microphones, DIN 8 male to DIN 8 female 2 audio cables 1.6 m, RCA to 6.3 mm mono jack 1 audio cable 2 m, XLR 1 DIN 8 male terminal connector	1 Y interconnecting cable, 2 m DIN 8 male to 2 DIN 8 female Foam windshield	1 Y interconnecting cable, 2 m DIN 8 male to 2 DIN 8 female Foam windshield
OPTIONAL	560789B: custom extension cable. PLEASE ENQUIRE	-	-

CONFERENCE SYSTEM AMPLIFIED

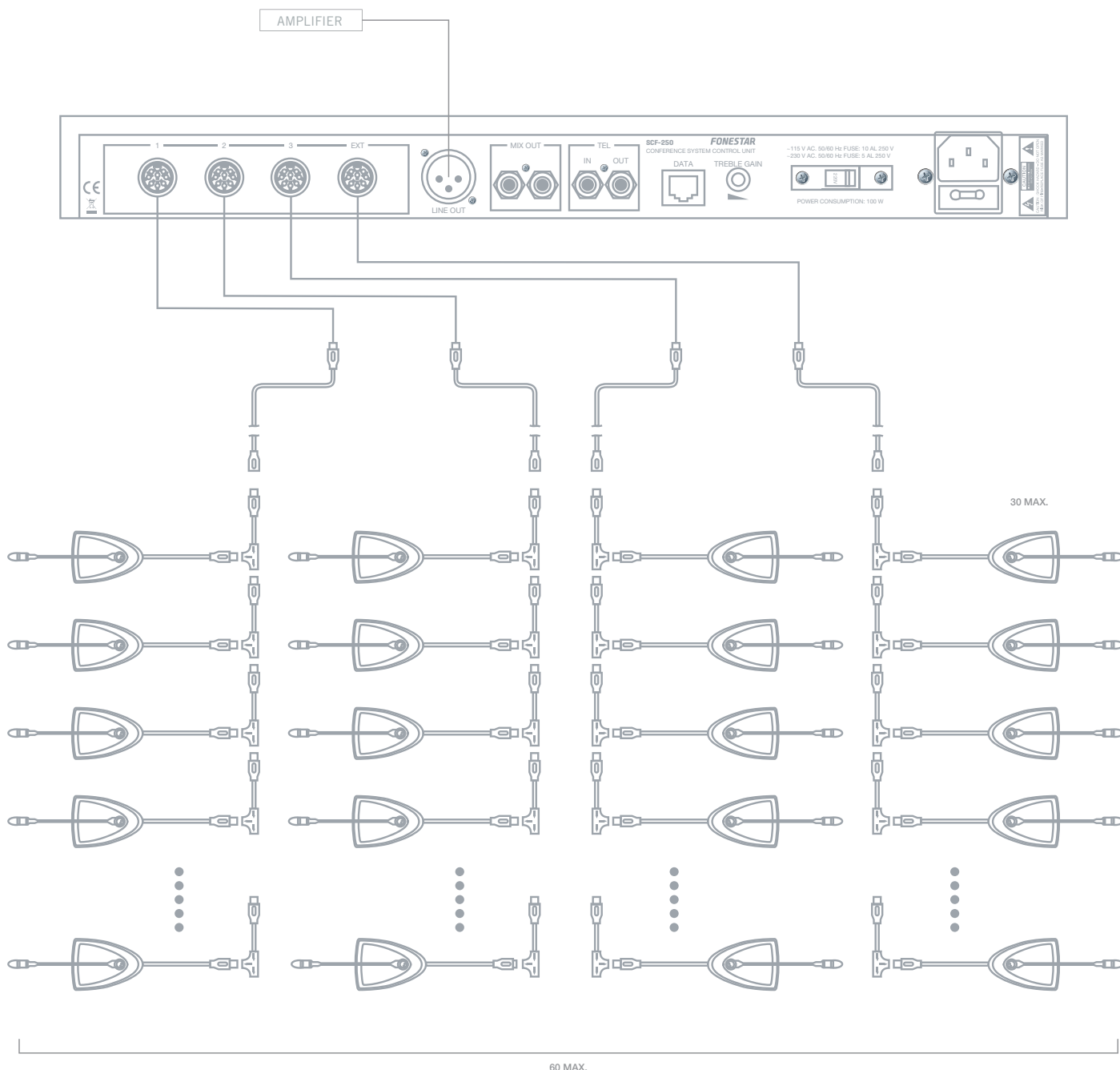
Conference system with loudspeaker monitor in each microphone.

The control unit incorporates an amplifier with microphone inputs, aux line and loudspeaker output.

Provides an output signal for recording or distribution.

Allows connection of up to 64 microphones in total [extendable up to 250, CONSULT].

EXAMPLE OF THE SCF-250 ZONE SYSTEM



CONFERENCE SYSTEM AMPLIFIED

FONESTAR

Conference system with loudspeaker monitor in each microphone.

The control unit incorporates an amplifier with microphone inputs, aux line and loudspeaker output.

Provides an output signal for recording or distribution.

Allows connection of up to 64 microphones in total [extendable up to 250, CONSULT].



SCF-550



SCF-560P



SCF-570D

	SCF-550	SCF-560P	SCF-570D
FEATURES	Control unit for conference system. Control of the number of active microphones: 1, 2, 3, 5 or unlimited. Allows connection of up to 64 microphones in total (extendable up to 250, CONSULT). Amplifier incorporated. It offers great versatility thanks to the variety of inputs and outputs. Easy and intuitive installation.	Chairman microphone with speech priority and the possibility of cancelling delegate microphones. Loudspeaker monitor incorporated. Metal microphone base. Unidirectional electret condenser capsule. LED ring and buttons with backlight.	Delegate microphone. Loudspeaker monitor incorporated. Metal microphone base. One-way electret condenser capsule. LED ring and buttons with backlight.
POWER	50 + 50 W RMS at 4-16 Ω	2 W RMS	2 W RMS
RESPONSE	40-18,000 Hz	40-18,000 Hz	40-18,000 Hz
CONTROLS	Mic: volume Aux: volume Monitor: volume Microphone monitor speaker: volume Amplifier monitor speaker: volume Bass and treble control Master volume Selector for number of active microphones	Push-to-talk button Priority over delegate microphones. Microphone volume	Push-to-talk button Microphone volume
INPUTS	4 microphone groups, DIN 8 1 unbalanced mic, 6.3 mm jack 1 efx in, 6.3 mm jack 1 aux, RCA	Power supply and audio, female DIN 8 interconnection 1 microphone, 3.5 mm jack	Power supply and audio, female DIN 8 interconnection
OUTPUTS	1 balanced master, XLR (recording) 2 line out, RCA 1 efx out, 6.3 mm jack	1 headphones, 3.5 mm stereo jack 1 audio, DIN 8 female interconnection	1 headphones, 3.5 mm stereo jack 1 audio, DIN 8 female interconnection 1 recording, 3.5 mm jack
POWER SUPPLY	230/115 V AC, 500 W	-	-
DIMENSIONS	483 x 87 x 400 mm depth. 2 U rack 19"	Gooseneck microphone: 480 mm high Base: 170 x 67 x 150 mm depth	Gooseneck microphone: 410 mm high Base: 170 x 67 x 150 mm depth
WEIGHT	12 kg	1 kg	1 kg
ACCESSORIES	1 extension cable 13 m for interconnection with microphones, DIN 8 male to DIN 8 female. Other lengths PLEASE ENQUIRE 1 audio cable 2 m XLR 2 audio cables 1.5 m RCA to 6.3 mm mono jack 1 DIN 8 male terminal connector	1 Y interconnecting cable, 2 DIN 8 male to DIN 8 female Mono headphone Foam windshield 1 clip-on microphone	1 Y interconnecting cable, 2 DIN 8 male to DIN 8 female Mono headphone Foam windshield

CONFERENCE SYSTEM AMPLIFIED

Microphone extension for conference system SCF-550.
Allows connection of up to 250 microphones.



SCF-580EXT

FEATURES

"Microphone extension for conference system SCF-550.
Allows connection of up to 250 microphones."

POWER SUPPLY

230 V AC, 500 W

DIMENSIONS

488 x 87 x 400 mm depth. 2 U rack 19"

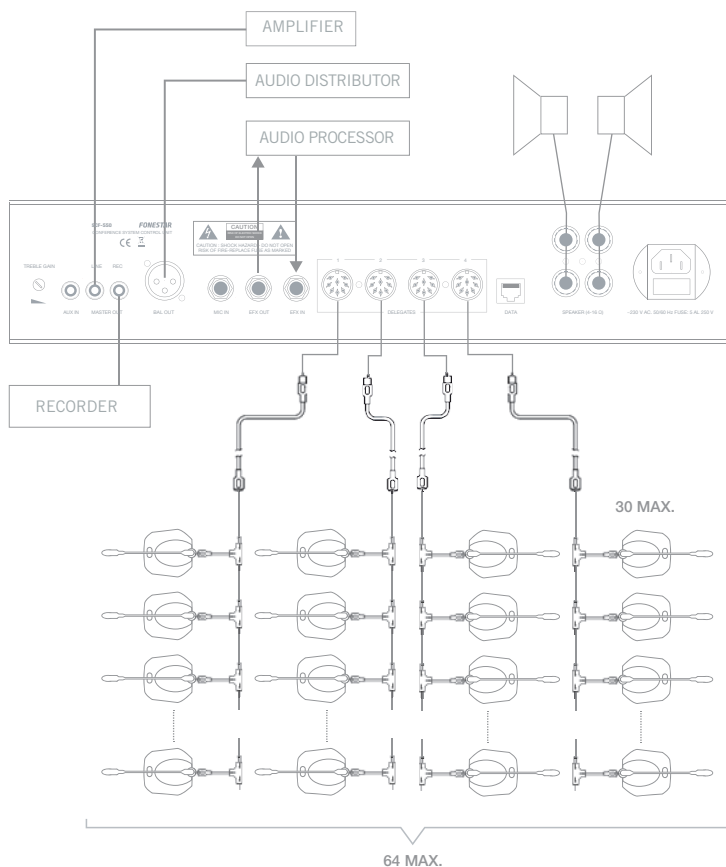
WEIGHT

10 kg

ACCESSORIES

"2 13 m extension cables for interconnection with microphones, DIN 8 male to DIN 8 female
2 cables for interconnection with microphones, DIN 8 male to DIN 8 male
Other lengths PLEASE ENQUIRE
1 terminal connector DIN 8 male"

EXAMPLE OF THE SCF-550 CONFERENCE SYSTEM



CONFERENCE SYSTEM WIRELESS

FONESTAR

Wireless conference system SCI-750.

Combines the characteristics of a conference system [priority and selection of maximum number of open microphones] with those of a wireless microphone system [mobility and ease of installation].

Up to 256 microphones in total, 5 active at the same time.



SCI-750

FEATURES

Control unit.
UHF 610-665 MHz.
LCD information display.
USB/MP3 recorder/player.
Priority control with delegate cut-off while president has priority.
Maximum number of microphones in use selector.
Up to 256 microphones in total, 5 active at the same time.
Audio and control signal transition between the switchboard and the microphones.

RESPONSE	50-15,000 Hz
OUTPUTS	1 balanced line, XLR 12,000 Ω 200 mV 1 unbalanced line, 6.3 mm jack 12,000 Ω 200 mV RS-232 port
POWER SUPPLY	12-15 V DC, 7 W
DIMENSIONS	483 x 89 x 380 mm depth. 2 U rack 19"
WEIGHT	7 kg
ACCESSORIES	4 antennas 6.3 mm mono jack cable
OPTIONAL	SCI-760P: president wireless desktop microphone SCI-770D: delegate desktop wireless microphone SCI-780C: battery charger case SCI-790C: battery charger case

CONFERENCE SYSTEM WIRELESS

Wireless conference system microphones



SCI-760P

FEATURES Wireless president microphone.
Priority and control over delegate microphones.
Information display.
Gooseneck microphone.
Automatic channel selection.
Data and audio transmission.
60 m range in favourable conditions.

CAPSULE	Unidirectional electret condenser
POWER	10 mW max
POWER SUPPLY	Rechargeable battery 3.7 V, 1,950 mAh included or 3 x 1.5 V batteries LR6-AA
DIMENSIONS	Gooseneck microphone: 430 mm Base: 180 x 58 x 120 mm depth
WEIGHT	0.7 kg
ACCESSORIES	Foam windshield Adapter for operating with LR6-AA batteries

SCI-770D

Wireless delegate microphone.
Information display.
Gooseneck microphone.
Automatic channel selection.
Data and audio transmission.
60 m range in favourable conditions.

CAPSULE	Unidirectional electret condenser
POWER	10 mW max
POWER SUPPLY	Rechargeable battery 3.7 V, 1,950 mAh included or 3 x 1.5 V batteries LR6-AA
DIMENSIONS	Gooseneck microphone: 430 mm Base: 180 x 58 x 120 mm depth
WEIGHT	0.7 kg
ACCESSORIES	Foam windshield Adapter for operating with LR6-AA batteries

Battery charging case for wireless system



SCI-780C

FEATURES Charging case for wireless conference system microphone batteries SCI-750, SCI-760P and SCI-770D.
Allows up to 16 batteries to be charged.

POWER SUPPLY	110-240 V AC, 200 W Recharge time 8-10 h
COLOUR	Black
DIMENSIONS	620 x 175 x 380 mm depth
WEIGHT	9.8 kg

SCI-790C

Charging case for wireless conference system microphone batteries SCI-750: SCI-760P and SCI-770D.
Allows up to 8 batteries to be charged.

POWER SUPPLY	110-240 V AC, 100 W Recharge time 8-10 h
COLOUR	Black
DIMENSIONS	400 x 150 x 380 mm depth
WEIGHT	6.05 kg

CONFERENCE SYSTEM DIGITAL

FONESTAR

SCD-600 digital conference system. Connection of up to 32 microphones with the possibility of extending up to 128 microphones in total with microphone extension SCD-630EXT. Live voting possible. DSP function and feedback suppressor.



SCD-600

FEATURES	Control unit. LCD information display. USB/MP3 recorder/player. Priority control with delegate cut-off while chairman has priority. Maximum number of microphones in use selector. Up to 128 microphones in total with the microphone extension SCD-630EXT. Audio and control signal transition between the switchboard and the microphones. Live voting possible. DSP function and feedback suppressor.
RESPONSE	20- 20,000 Hz
INPUTS	1 balanced mic, XLR 1 unbalanced line, 2 x RCA
OUTPUTS	2 recording, 2 x RCA 1 unbalanced line, 2 x RCA
POWER SUPPLY	230/115 V AC, 350 W
DIMENSIONS	483 x 88 x 360 mm depth. 2 U rack 19"
WEIGHT	5.5 kg
OPTIONAL	SCD-610P: president desktop microphone SCD-620D: delegate desktop microphone SCD-630EXT: microphone extension SCD-640DT: DANTE expansion Module



SCD-630EXT

FEATURES	Extension of delegate and president microphones. Connection of up to 32 microphones. Possibility of extending up to 128 microphones in total with microphone extension SCD-630EXT.
INPUTS	2 ports for connection to microphones SCD-610P or SCD-620D, RJ-45
OUTPUTS	2 ports for connection to microphones SCD-610P or SCD-620D, RJ-45
POWER SUPPLY	230/115 V AC, 350 W
DIMENSIONS	196 x 43 x 306 mm depth
WEIGHT	2.5 kg
ACCESSORIES	2 network cables

SCD-640DT

FEATURES	DANTE expansion module. 2 x 2 digital audio input/output channels. Connections via RJ-45, Cat 5e cable. 2 DANTE ports, 2 x RJ-45 (Primary and Secondary)
CONNECTION	Cable RJ-45, Cat 5e
DIMENSIONS	122 x 32 x 120 mm depth
WEIGHT	0.2 kg

CONFERENCE SYSTEM DIGITAL

Digital conference system microphones

SCD-620D

FEATURES

Delegate microphone.
Information display.
Voting buttons.
Loudspeaker monitor incorporated.
Gooseneck microphone.
Data and audio transmission.

MICROPHONE	Unidirectional electret condenser with LED ring
DIMENSIONS	Gooseneck microphone: 440 mm Base: 170 x 39 x 172 mm depth
WEIGHT	0.7 kg
ACCESSORIES	Foam windshield Network cable



SCD-610P

FEATURES

President microphone.
Priority and control over delegate microphones.
Information display.
Voting buttons.
Loudspeaker monitor incorporated.
Gooseneck microphone.
Data and audio transmission.

MICROPHONE	Unidirectional electret condenser with LED ring
DIMENSIONS	Gooseneck microphone: 440 mm Base: 170 x 39 x 172 mm depth
WEIGHT	0.7 kg



SIMULTANEOUS TRANSLATION SYSTEM

FONESTAR

Translation system for up to 5 languages with transmission through IR radiators. Allows connection of up to 6 translation desks. High quality audio without interference with lighting systems.



SCT-600

FEATURES	SCT simultaneous translation system transmitter. Up to 5 languages in addition to the original language. Up to 10 x SCT-61M or SCT-122M microphones can be connected in cascade. Automatic control of output volume.
RESPONSE	100-14,000 Hz
INDICATOR LIGHTS	Output level of each channel
INPUTS	6 lines, RCA 18,000 Ω 2 V
OUTPUTS	6 lines, RCA 600 Ω 1 V 2 radiators, BNC 50 Ω 2 interpretation units, DB25
S/N RATIO	> 75 dB
POWER SUPPLY	110-240 V AC, 40 W
DIMENSIONS	483 x 89 x 355 mm depth
WEIGHT	7 kg
ACCESSORIES	10 m interpretation unit interconnection cable, DB25 2 audio cables, 6.3 mm mono jack to RCA

Desktop microphone for 1 interpreter. Eases original channel selection for translating, and output channel. Microphone and speaker incorporated.

SCT-61M

FEATURES	Desktop microphone with gooseneck for simultaneous translation. Input and output channel selection. Mute function (cough). Monitor loudspeaker. Information display. Cascade connection. Operating light ring.
INPUTS	1 external microphone, 3.5 mm stereo jack 1 interconnection with control unit, DB25 and DIN13
OUTPUTS	1 headphones, 3.5 mm stereo jack 1 interconnection, DB25
DIMENSIONS	Gooseneck microphone: 425 mm Base: 278 x 65 x 140 mm depth
WEIGHT	1.5 kg
ACCESSORIES	3 m interconnection cable, DB25

Desktop base for 2 interpreters. External microphone connection. Allows interpreters to alternate during translation.

SCT-122M

FEATURES	Desktop base for two simultaneous translation microphones in the same output channel. Input and output channel selection. Mute function (cough). Cascade connection.
INPUTS	2 microphones, 3.5 mm stereo jack 1 interconnection, DB25
OUTPUTS	2 headphones, 3.5 mm stereo jack 2 rec out, 3.5 mm stereo jack 1 interconnection, DB25
DIMENSIONS	330 x 65 x 200 mm depth
WEIGHT	2.2 kg
ACCESSORIES	10 m interconnection cable, DB25



SIMULTANEOUS TRANSLATION SYSTEM

IR radiator for simultaneous translation system. Wide coverage, extendable with cascade connection.

IR-600T

FEATURES	IR radiator for SCT simultaneous translation system. Coverage area of up to 600 m ² per radiator.
INPUTS	Signal In, BNC, for connection with the transmitter 50 Ohm shielded coaxial cable recommended, RG-58. Maximum length of a single cable is 100 m. If there are more cables with more receivers, the total length must not exceed 200 m.
OUTPUTS	Signal Out, BNC, for connection to other IR-600T radiators in cascade
OUTPUT POWER	25 W
RANGE	Up to 30 m
COVERAGE ANGLE	135°
POWER SUPPLY	110-240 V AC, 55 W
DIMENSIONS	440 x 232 X 125 mm depth
WEIGHT	4.3 kg
ACCESSORIES	Wall mount Interconnection cable, BNC



Personal IR receiver for SCT simultaneous translation system.

SCT-6R

FEATURES	IR receiver for SCT simultaneous translation system. 6 selectable channels. Simple and intuitive handling. Information display.
CONTROLS	Power on Channel selection Volume
OUTPUTS	1 headphones, 3.5 mm stereo jack
POWER SUPPLY	3 x 800 mAh AAA-R03 batteries, included Integrated recharge function via SCT-24CH charging station
DIMENSIONS	155 x 45 x 20 mm
WEIGHT	0.1 kg
ACCESSORIES	Mono headphone Hanger for receiver



Charger for 24 SCT-6R receivers with carrying case.



SCT-24CH

FEATURES	Recharge docking station for 24 SCT-6R receivers. Reinforced structure and wheels for transporting.
INDICATOR LIGHTS	Power and charge/end LED indicator
POWER SUPPLY	110-240 V AC, 200 W
DIMENSIONS	620 x 285 x 380 mm depth
WEIGHT	10.75 kg



SCT-16M

FEATURES	Transport case for 16 SCT-6R receivers.
DIMENSIONS	380 x 110 x 400 mm depth
WEIGHT	1.6 kg

AUXILIARY EQUIPMENT PLAYERS

FONESTAR

USB/SD/MP3 players with USB port and SD card reader with special features for normal playback or ambient music. Autoplay with selectable playback mode, random or play all.



FS-2911UB



FS-2911UBRK



FS-2911UB FS-2911UBRK

FEATURES

USB/SD/MP3 player.
USB/SD player in MP3, WMA, WAV, AAC and FLAC formats.
Digital FM radio tuner with 30 pre-set stations.
ID3 tag information in MP3 files.
USB port for connection of flash drives with FAT 32 format.
USB/SD memory sticks up to 64 GB.
SD/SDHC card reader.
Remote control.

RESPONSE	20-20,000 Hz	
DISTORTION	Harmonic: < 0.3 % at 1 kHz	
S/N RATIO	> 70 dB at 1 kHz	
INPUTS	1 stereo aux, 3.5 mm jack, 820 mV RMS	
OUTPUTS	1 aux, 2 x RCA 1.2 V	
POWER SUPPLY	12 V DC, 500 mA including adapter	
DIMENSIONS	174 x 47 x 135 mm depth	483 x 47 x 135 mm depth (with rack mounts). 1 U rack 19"
WEIGHT	0.65 kg	0.65 kg
ACCESSORIES	2 x RCA connection cable Batteries for remote control	2 x RCA connection cable Mounts for assembly in 19" rack Batteries for remote control

AUXILIARY EQUIPMENT PLAYERS

IR radiator for simultaneous translation system. Wide coverage, extendable with cascade connection.



DVD-7900

FEATURES	DVD/CD/USB player. DVD, CD audio and MP3 player with tray loading mechanism. USB host port for connection of USB flash drives with FAT32 file format. Auto-play function on power-on and memory of last file played. Remote control.
OUTPUTS	Audio/Video: VGA, D15 female. Stereo audio, 2 x RCA 2 mono audio, RCA. Coaxial digital audio, RCA Component video Y, Pb, Pr, 3 x RCA Composite video, RCA S-Video, DIN 4
FUNCTIONS	USB player for flash drives up to 32 GB
POWER SUPPLY	115-230 V AC, 15 W
DIMENSIONS	482 x 44.5 x 240 mm depth. 1 U rack 19"
WEIGHT	2.5 kg
ACCESSORIES	2 x RCA connection cable Batteries for remote control

Professional CD/USB/SD/MP3 player with pitch control and gapless function with no pauses between songs. Compact size 1 U rack 19". For gyms, pubs, commercial audio, etc.



CD-2000UDJ

FEATURES	CD/USB/SD/MP3 player. CD player mechanism with front slot-in loading system. USB port for memory and hard drive connection FAT32 format. SD card reader. Pitch control playback speed setting $\pm 16\%$. Gapless function, no pause between songs on CD Audio and MP3. Remote control.
RESPONSE	20-20,000 Hz
OUTPUTS	1 stereo audio, 2 x RCA 1 stereo balanced line, 2 x XLR
POWER SUPPLY	230/115 V AC, 20 W
DIMENSIONS	483 x 44 x 266 mm depth. 1 U rack 19"
WEIGHT	4.3 kg
ACCESSORIES	2 x RCA connection cable Batteries for remote control

AUXILIARY EQUIPMENT PLAYERS

FONESTAR

Player and mixer in one device, with mic. and aux input, USB/SD/MP3 player/recorder, digital FM tuner and bluetooth receiver.



FS-3000RUB

FEATURES	<p>USB/SD/MP3/FM player and mixer. Mixer with mic and aux input. USB/SD/MP3 recorder/player. FM radio. Bass, treble and balance control. Remote control of the player.</p>
RESPONSE	20-20,000 Hz
CONTROLS	GND lift ground disconnection
INPUTS	<p>1 balanced micro, combo (XLR and 6.3 mm jack) 1 stereo audio, 2 x RCA and 3.5 mm jack 3 aux, 2 x RCA 1 tape in, 2 x RCA</p>
OUTPUTS	<p>1 balanced stereo audio, 2 x XLR 2 stereo audio, 2 x RCA 1 tape out, 2 x RCA 1 headphones aux, 6.3 mm jack</p>
POWER SUPPLY	230/115 V AC, 7 W
DIMENSIONS	430 x 44.5 x 150 mm depth. 1 U rack 19"
WEIGHT	1.5 kg
ACCESSORIES	<p>Mounts for assembly in 19" rack FM and AM antenna</p>

AUXILIARY EQUIPMENT

AUDIO PROCESSORS

Frequency shift acoustic feedback suppressor.

Effectively eliminates acoustic feedback or coupling with minimal distortion.

Easy to use, no user-manipulable configuration controls. The feedback suppression function is activated by a push button.



SR-1590

FEATURES	Feedback suppressor. Frequency displacement 5Hz ±1Hz. Mono mode.
RESPONSE	20-20,000 Hz without feedback suppression 150-15,000 Hz with feedback suppression
INPUTS	1 balanced mics, XLR 5,000 Ω 2.5 mV 1 unbalanced line, 6.3 mm jack 5,000 Ω 1 V 1 aux, 2 x RCA 5,000 Ω 1 V
OUTPUTS	1 balanced micro, XLR 600 Ω 100 mV 1 unbalanced line, 6.3 mm jack 600 Ω 1.5 V 1 aux, 2 x RCA 600 Ω 1.5 V
CONTROLS	GND Lift ground disconnection
POWER SUPPLY	230/115 V AC, 12 W
DIMENSIONS	483 x 44.5 x 210 mm depth. 1 U rack 19"
WEIGHT	2.4 kg
ACCESSORIES	2 cables RCA 1 XLR cable 1 6.3 mm jack to RCA

AUXILIARY EQUIPMENT

POWER SUPPLY

Power sequencer that allows sequential switch-on of audio devices. For protection, avoid power-on spikes and eliminate noise.

Selectable switch-on delay between outputs. Remote power on/off through contact closure.



PD-708

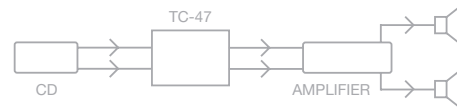
OUTPUTS	8 female schuko connectors, 15 A total
INDICATOR LIGHTS	On and auto on/off indicator lights Selected output indicator light Inter-device delay display Operating voltage display
CONTROLS	Auto on/off Switch-on delay selectors (0.5 to 4.5 s) Output selectors
POWER SUPPLY	100-240 V AC, 5,000 W maximum
DIMENSIONS	483 x 88 x 180 mm depth. 2 U rack 19"
WEIGHT	4.8 kg

AUXILIARY EQUIPMENT ACCESSORIES

Stereo pre-amplifiers for CDs and microphones.

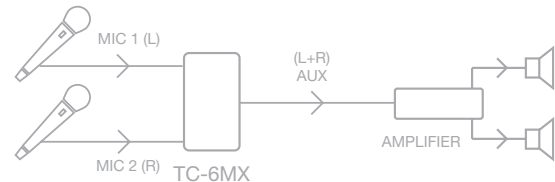
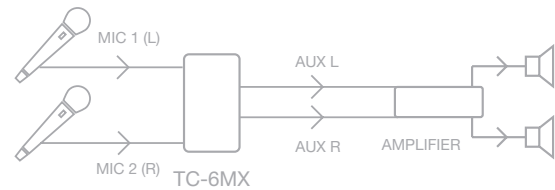
TC-47

FEATURES	Stereo pre-amplifier for line signal.
INPUTS	1 aux, 2 x RCA, 3 V 47,000 Ω
OUTPUTS	1 aux, 2 x RCA 100 Ω
CONTROLS	Gain 0 to 15 dB
RESPONSE	20-20,000 Hz
S/N RATIO	> 85 dB
INDICATOR LIGHTS	LED power on indicator
POWER SUPPLY	12 V DC, 0.2 A with adapter included
DIMENSIONS	73 x 43 x 109 mm depth
WEIGHT	0.2 kg



TC-6MX

FEATURES	Auxiliary to microphone pre-amplifier. Individual volume control in each channel. Individual or mixed output selection.
INPUTS	2 mics., 6.3 mm mono jack, 600 Ω 7 mV maximum
OUTPUTS	2 aux, RCA 47,000 Ω 1.6 V
RESPONSE	20-20,000 Hz
S/N RATIO	> 80 dB
GAIN	50 dB
INDICATOR LIGHTS	LED power on indicator
POWER SUPPLY	12 V DC, 0.2 A with adapter included
DIMENSIONS	133 x 31 x 85 mm depth
WEIGHT	0.3 kg



AUXILIARY EQUIPMENT ACCESSORIES

Stereo to mono signal converter.

Converts 1 stereo signal to 2 mono signals to connect to 2 mono amplifiers.



TC-3SM

FEATURES	Stereo to 2 mono signals converter. Adapts impedances and distributes the signal.
INPUTS	1 stereo aux, 2 x 4,700 Ω RCA
OUTPUTS	2 mono aux, RCA.
RESPONSE	20-20,000 Hz
DIMENSIONS	42 x 31 x 67 mm depth
WEIGHT	0.1 kg

4 line 100 V mono loudspeaker selector, with independent volume control and input selection.



SL-400V

FEATURES	4 line 100 V mono loudspeaker selector, with independent volume control and input selection A or B. Attenuation with autotransformer. Each output can be individually activated/deactivated.
POWER	300 W maximum, 150 W RMS per channel
INPUTS	2 x 100 V line amplifiers
OUTPUTS	4 x 100 V loudspeaker lines
CONTROLS	On/off, A/B input selector and 12-position independent volume control, 42 dB attenuation
DIMENSIONS	432 x 76 x 190 mm depth. 1.7 U 19" rack
WEIGHT	2.8 kg
ACCESSORIES	19" rack mounts

Stereo loudspeaker switchers.



CB-2

FEATURES

2-way stereo switcher for 2 pairs of loudspeakers.
Converts 1 output to 2.
Selection via switches.
Connection through spring terminals.
For low Z 4-8 Ω loudspeakers.

WEIGHT

0.4 kg



CB-4

4-way stereo switcher for 4 pairs of loudspeakers.
Converts 1 output to 4.
Selection via switches.
Connection through spring terminals.
For low Z 8 Ω loudspeakers.

0.5 kg

4-line 8 Ω stereo loudspeaker switcher with independent volume control and input selection.



CB-400V

FEATURES

4-line 8 Ω stereo loudspeaker switcher with independent volume control and input selection A or B.
Attenuation with autotransformer.
Each output can be individually activated/deactivated.

POWER

100 W maximum per channel

INPUTS

2 x 8 Ω amplifier lines

OUTPUTS

4 x 8 Ω loudspeaker lines

CONTROLS

On/off, A/B input switcher and 12-position independent volume control

DIMENSIONS

430 x 58 x 158 mm depth. 1.5 U 19" rack

WEIGHT

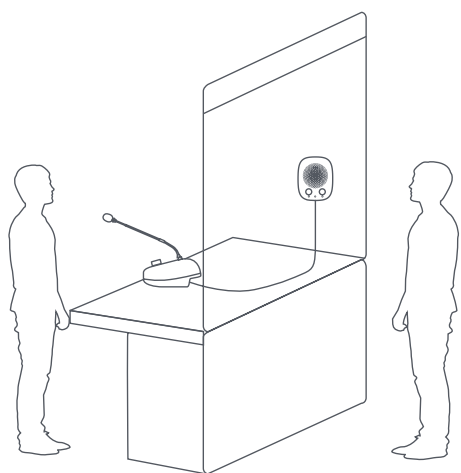
2.8 kg

ACCESSORIES

19" rack mounts

PUBLIC ADDRESS MICROPHONES WINDOW INTERCOMS

Window intercom system composed of a desktop intercom microphone and an external intercom to ease communication through counter windows, glass partitions or windows in box offices, banks, offices, checkpoints, private accesses, car parks, etc.



INTERFON-V

WINDOW INTERCOM
Clear and limitless communication

PUBLIC ADDRESS MICROPHONES WINDOW INTERCOMS

Window intercom

FONESTAR



INTERFON-V

FEATURES	Window intercom. Two-way sound.
FUNCTIONS	Automatic control of communication, internal intercom priority Anti-feedback LED operation indicator lights on the desktop intercom Optimal speaking distance to the window intercom microphone 20 cm Headphone input The window intercom can be hung or attached to the glass with the supplied double-sided stickers.
POWER	2 x 5 W maximum
CONTROLS	On/off Independent window and interior volume Window and interior mute button
INPUTS	1 x window intercom, 3.5 mm 4-pin jack 1 x headset micro headset, 3.5 mm 4-pin jack 1 x line, 3.5 mm stereo jack for playback through window intercom
OUTPUT	1 REC, 3.5 mm 3-pin jack
POWER SUPPLY	12 V DC, 1 A including adapter
DIMENSIONS	Desktop intercom: 105 x 60 x 139 mm depth Gooseneck microphone: 396 mm height Window intercom: 87 x 109 x 35 mm depth
WEIGHT	0.64 kg

PUBLIC ADDRESS MICROPHONES

PAGING

Desktop microphone with chimes and pre-amplifier.



MCH-205

FEATURES Desktop microphone with chimes and pre-amplifier.

CAPSULE	Electret condenser
RESPONSE	22-16,000 Hz
SENSITIVITY	-29 dB (V/Pa) at 1 kHz
IMPEDANCE	600 Ω
OUTPUTS	Pre-amplified: 1 balanced line, XLR 10-230 mV 1 unbalanced line, 6.3 mm jack 10-110 mV
POWER SWITCH	On/off
CONTROLS	Mic. volume and chime volume
INDICATORS	LED power ring and push button
GENERATOR	4 chimes: 440, 554, 659 and 880 Hz
POWER SUPPLY	15 V DC with adapter included
DIMENSIONS	Height: 380 mm Base: 130 x 155 mm depth
WEIGHT	0.7 kg
ACCESSORIES	1.5 m with 6.3 mm mono jack connectors Foam windshield

PORTABLE PUBLIC ADDRESS EQUIPMENT

PUBLIC ADDRESS FOR VEHICLES

FONESTAR

Portable public address system for street sales, advertising, etc.
Quick installation in vehicles.



PEM-15

USB/SD/FM PLAYER

1 PROX-15: Public address amplifier with USB/SD/FM player and 15 W RMS Microphone input with mix, gain and priority level control Tone controls	1: Mount for vehicles	1 MCD-364: Communications microphone	2 FE-1210: Horn loudspeakers, 30 W maximum
WEIGHT: 9.1 kg			
ACCESSORIES: Speaker wiring and lighter socket connector 12 V DC			

Loudspeaker mount.



SAV-4

SAV-6

FEATURES

Square mount for loudspeakers with suction pads and adjustable safety strap for installation on the roof of a car, van, etc. With holes for horn loudspeakers, mods. FE-1210, FE-107, FE-149 or similar. Quick and easy to assemble and dismantle from any type of vehicle.

Rectangular mount for loudspeakers with suction pads and adjustable safety strap for installation on the roof of a car, van, etc. With holes for horn loudspeakers, mods. FE-1210, FE-107, FE-149 or similar. Quick and easy to assemble and dismantle from any type of vehicle.

DIMENSIONS

31 x 5 x 31 cm depth

66 x 5 x 18 cm depth

WEIGHT

1.7 kg

2.1 kg

PORTABLE PUBLIC ADDRESS EQUIPMENT

MEGAPHONES

Megaphone line with siren.



MF-114SU

Megaphone with siren and USB/SD/MP3 player.

FEATURES	Megaphone with siren and USB/SD/MP3 player.
POWER	25 W max., 10 W RMS
POWER SUPPLY	8 x LR14-C batteries 12 V DC input, 5.5 x 2.1 mm connector
DIMENSIONS	23 cm Ø x 37 cm length
WEIGHT	1 kg



MF-600SGU

Megaphone with siren, USB/SD/MP3 player, 15-second recorder, rechargeable Lithium battery and hand-held microphone.

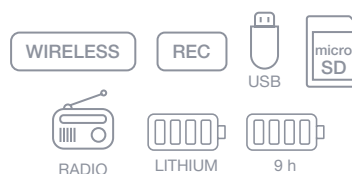
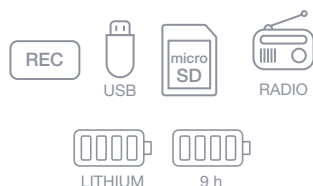
FEATURES	Megaphone with siren, USB/SD/MP3 player, 15-second recorder, rechargeable Lithium battery and hand-held microphone.
MICROPHONE	Hand-held with coiled cable
POWER	25 W max., 10 W RMS
POWER SUPPLY	Rechargeable 1,300 mAh lithium battery (included) Autonomy with rechargeable battery: more than 3 hours at maximum volume Battery full-load time: 2 hours approx. 8 x LR14-C batteries 12 V DC input, 5.5 x 2.1 mm connector
DIMENSIONS	23 cm Ø x 34 cm length
WEIGHT	1.3 kg

PORTABLE PUBLIC ADDRESS EQUIPMENT

FONESTAR

PORTABLE AMPLIFIERS

USB/microSD/MP3 portable amplifier.



ALTA-VOZ-30 **N!**

FEATURES

Portable waist amplifier.
USB/MicroSD/MP3 recorder/player.
Digital FM tuner.
Recording 128 Kbps.
Autonomy: 9 h average volume.
Huge range.
Ultra-lightweight.

ALTA-VOZ-W30 **N!**

Portable waist amplifier.
UHF wireless microphone.
USB/MicroSD/MP3 recorder/player.
Digital FM tuner.
Recording 128 Kbps.
Up to 35 m between microphone and amplifier.
Autonomy: 9 h average volume.
Huge range.
Ultra-lightweight.

POWER	30 W max	30 W max
SPEAKERS	3" with neodymium magnet	3" with neodymium magnet
RESPONSE	120-12,000 Hz	350-6,500 Hz
MICROPHONE	1 m cable. 3.5 mm stereo jack connector	Unidirectional electret condenser hands-free head-worn with UHF 600-700 MHz transmitter (60 channels)
INPUTS	1 electret microphone, 3.5 mm stereo jack 680 Ω 3 mV 1 aux, 3.5 mm jack stereo 22,000 Ω 600 mV	1 electret microphone, 3.5 mm stereo jack 680 Ω 3 mV 1 aux, 3.5 mm jack stereo 22,000 Ω 600 mV
CONTROLS	On/off volume Touch-sensitive for recorder/player	On/off volume Touch-sensitive for recorder/player
POWER SUPPLY	Rechargeable Li-ion battery, 2,000 mAh 3.7V Charging time: 3	Amplifier: Rechargeable Li-ion battery, 2,000 mAh 3.7V Charging time: 3 Wireless microphone: Rechargeable Li-ion battery, 560 mAh 3.7V Charging time: 2
DIMENSIONS	90 x 116 x 32 mm depth	90 x 116 x 32 mm depth
WEIGHT	0.2 kg	0.25 kg
ACCESSORIES	USB to micro USB cable for recharging Carrying belt Transport case	Microphone with cable USB to micro USB cable for recharging Carrying belt Transport case

LOUDSPEAKERS

SURFACE SPEAKERS, ELIPSE

Pair of loudspeakers with 100 V line transformer and low impedance.

Excellent finish, elegant design, high power capacity and durability.

Adjustable wall mount for easy installation and positioning in all directions.



ELIPSE-8BT



ELIPSE-8T



IP-56

ELIPSE-8T ELIPSE-8BT

FEATURES	Pair of low impedance loudspeakers with 100 V line transformer and low impedance. Prepared for outdoor use, water protection and anti-corrosion materials.
POWER	120 W max., 60 W RMS
SPEAKERS	1 x polypropylene 8" woofer 1 x 1" dome silk tweeter
RESPONSE	30-20,000 Hz
IMPEDANCE	High Z 100 V line : 200 Ω (50 W), 400 Ω (25 W), 800 Ω (12'5 W), 1.600 Ω (6'25 W) Low Z: 8 Ω .
SENSITIVITY	90 dB at 1 W/1 m
SWITCHER	W selector at high Z and low Z
PROTECTIONS	IP-56
MATERIAL	Aluminium grille Weatherproofed mount. Stainless steel screws
CONNECTORS	Push terminals
COLOUR	Black (RAL 9017) White (RAL 9003)
DIMENSIONS	244 x 378 x 240 mm depth
WEIGHT	2 x 5 kg
ACCESSORIES	Adjustable fixing mounts

LOUDSPEAKERS SURFACE SPEAKERS, CUBE

Pair of loudspeakers with 100 V line transformer and low impedance.
Great sound quality in a small size.



CUBE-62T



CUBE-62BT

CUBE-62T CUBE-62BT

FEATURES	Pair of low impedance loudspeakers with 100 V line transformer and low impedance.	
POWER	25 W max., 12 W RMS	
SPEAKERS	2 x 1/2"	
RESPONSE	150-20,000 Hz	
IMPEDANCE	High Z 100 V line 1,666 Ω (6 W) Low Z: 8 Ω	
SENSITIVITY	88 dB at 1 W/1 m	
CONNECTORS	Push terminals	
COLOUR	Black (RAL 9017)	White (RAL 9003)
DIMENSIONS	89 x 89 x 110 mm depth	
WEIGHT	2 x 0.7 kg	
ACCESSORIES	Adjustable fixing mounts	

LOUDSPEAKERS SURFACE SPEAKERS, BS

Surface installation loudspeakers.
Suitable for public address and background sound applications.



BS-17T

FEATURES	Surface loudspeaker with 100 V line transformer.
POWER	15 W max., 10 W RMS
SPEAKERS	1 x 5 1/2" woofer 1 x 2" dome tweeter
RESPONSE	160-18,000 Hz
IMPEDANCE	High Z 100 V line : 1,000 Ω (10 W), 1,666 Ω (6 W), 3,330 Ω (3 W)
SENSITIVITY	92 dB at 1 W/1 m
CONNECTORS	Push terminals
MATERIAL	ABS and aluminum grille
COLOUR	White (RAL 9003)
DIMENSIONS	182 x 272 x 115 mm depth
WEIGHT	1.75 kg

LOUDSPEAKERS

SURFACE SPEAKERS, SONORA

Pair of loudspeakers with 100 V line transformer and low impedance.
Great sound quality in a small size.



SONORA

INDOOR AND OUTDOOR SPEAKERS

SONORA is a series of loudspeakers specially designed for public address and ambient sound applications. Their excellent finish and elegant design allow a perfect integration in any space. They are fully prepared for outdoor use as they have an aluminium grille and protection against water (IP-66) and marine environments.

In addition, SONORA provides a great sound quality with a defined and distortion-free sound. They include all the necessary accessories for a simple and quick installation: adjustable fixing bracket with weatherproof treatment, stainless steel screws and steel safety cable.



BIG POWER

30 / 40 / 60 W RMS
Wide range of power for all your projects.



IP-66

Weatherproof design with high long-term reliability.



TWO POSITIONS

The bracket allows for horizontal and horizontal and vertical installation.



RESISTS SALT SPRAY

IEC 60068-2-11
Suitable for marine and industrial environments.



EUROBLOCK

Professional connectivity to facilitate the installation process.



UNIQUE DESIGN

Elegant design that fits in the most demanding places.



EASY ASSEMBLY

The clip system allows easy installation of the loudspeaker.



DESIGNED FOR EN 54

Designed to comply with EN 54.



SAFETY CABLE

The safety cable prevents any accidents after installing the loudspeaker.



OMNIDIRECTIONAL

The two axes of rotation allow precise adjustment of the orientation.



RUST FREE

Aluminium grille. Stainless steel bolts, nuts and screws.



TWO COLOURS

Available in white (RAL 9003) and black (RAL 9005).

As a result of careful attention to detail, the European Union Intellectual Property Office (EUIPO) has certified us the intellectual property of the design and models of our **SONORA series**

A true privilege that reaffirms our convictions.
Only when things are done right, they deserve an award.



SONORA

INDOOR AND OUTDOOR RANGE
 4.5" and 6" speakers



Public premises such as restaurants, cafés, supermarkets, shopping centres, etc.



IP-66
 IP-66 SALINE ENVIRONMENTS

IP-66
 IP-66 SALINE ENVIRONMENTS

IP-66
 IP-66 SALINE ENVIRONMENTS

SONORA-4TN **N!**
SONORA-4TB **N!**

SONORA-5TN **N!**
SONORA-5TB **N!**

SONORA-6TN **N!**
SONORA-6TB **N!**

FEATURES	Low-impedance, 100 V line transformer loudspeaker. Prepared for outdoor use, waterproof and anti-corrosive materials.		Low-impedance, 100 V line transformer loudspeaker. Prepared for outdoor use, waterproof and anti-corrosive materials.		Low-impedance, 100 V line transformer loudspeaker. Prepared for outdoor use, waterproof and anti-corrosive materials.	
POWER	30 W RMS		40 W RMS		60 W RMS	
SPEAKERS	1 x polypropylene 4" woofer 1 x 1/2 tweeter		1 x 5 1/4" polypropylene woofer 1 x 1" tweeter		1 x polypropylene 6" woofer 1 x 1" tweeter	
RESPONSE	120-20,000 Hz		80-20,000 Hz		75-20,000 Hz	
IMPEDANCE	30 W RMS@100 V (333 Ω) 15 W RMS@100 V (667 Ω) 7.5 W RMS@100 V (1,333 Ω) 3.75 W RMS@100 V (2.667 Ω) Low Z: 8 Ω		40 W RMS@100 V (250 Ω) 20 W RMS@100 V (500 Ω) 10 W RMS@100 V (1,000 Ω) 5 W RMS@100 V (2,000 Ω) Low Z: 8 Ω		60 W RMS@100 V (165 Ω) 30 W RMS@100 V (330 Ω) 15 W RMS@100 V (660 Ω) 7.5 W RMS@100 V (1,320 Ω) Low Z: 8 Ω	
SENSITIVITY	84 dB at 1 W/1 m		86 dB at 1 W/1 m		86 dB at 1 W/1 m	
SWITCHER	W selector at high Z and low Z		W selector at high Z and low Z		W selector at high Z and low Z	
PROTECTIONS	IP-66 IEC 60068-2-11 Environmental testing (salt mist)		IP-66 IEC 60068-2-11 Environmental testing (salt mist)		IP-66 IEC 60068-2-11 Environmental testing (salt mist)	
MATERIAL	Aluminium grille Weatherproofed mount. Stainless steel screws		Aluminium grille Weatherproofed mount. Stainless steel screws		Aluminium grille Weatherproofed mount. Stainless steel screws	
CONNECTORS	Euroblock		Euroblock		Euroblock	
COLOUR	Black (RAL 9004)	Black (RAL 9004)	Black (RAL 9004)	White (RAL 9003)	Black (RAL 9004)	White (RAL 9003)
DIMENSIONS	125 x 202 x 125 mm depth		162 x 262 x 147 mm depth		199 x 322 x 281 mm depth	
WEIGHT	1.7 kg		2.2 kg		3 kg	
ACCESSORIES	Full motion fixing mount ± 60° in all directions Steel safety cable		Full motion fixing mount ± 60° in all directions Steel safety cable		Full motion fixing mount ± 60° in all directions Steel safety cable	

LOUDSPEAKERS

INVISIBLE SURFACE SPEAKERS

Invisible speaker for installation in plasterboard or wood panels.

Create a musical ambience without any visual impact.

Wide coverage with great sound quality.

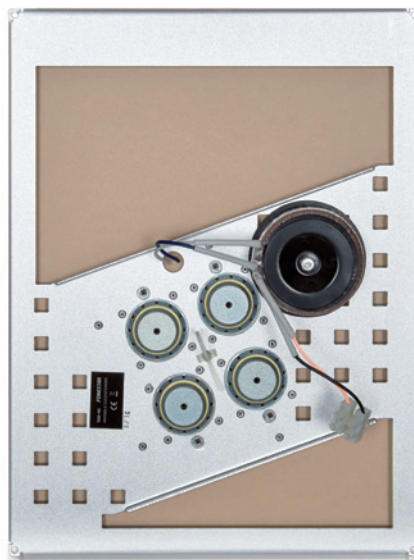


FEATURES

TDO-45

Invisible loudspeaker with 70 and 100 V line transformer
Installation in plasterboard panels.
Sound is produced via radiating surface vibration.
Non-directional sound.
Long product life.

POWER	40 W RMS
DRIVERS	4
RESPONSE	140-20,000 Hz
IMPEDANCE	40 W RMS@100V (250 Ω)
SENSITIVITY	90 dB ±3 dB at 1 W/1 m
COVERAGE ANGLE	180°
MATERIAL	Aluminium
DIMENSIONS	300 x 400 x 50 mm depth
WEIGHT	1.5 kg
OPTIONAL	TDO-45BOX: installation box





TDO-45BOX

FEATURES	Installation box for invisible loudspeaker TDO-45.
DIMENSIONS	304 x 450 x 71 mm depth
WEIGHT	1.5 kg



LOUDSPEAKERS

SURFACE SPEAKERS, POWERBASS

Subwoofer speaker with 100 V line transformer



POWERBASS-8TN **N!**

FEATURES	Subwoofer speaker for background music applications. Excellent bass response for reinforcement of bass music content. Bass-reflex reinforcement system. Unique FONESTAR design. 100/70 V line transformer and low impedance. Wall or floor/shelf installation.
POWER	120 W RMS (IEC 60258-5 Average rated power, 100 hours)
SPEAKERS	1 x 8" subwoofer
RESPONSE	47-300 Hz (-10 dB) @ FPB 150 Hz 47-400 Hz (-10 dB) @ FPB 400 Hz 47-650 Hz (-10 dB) @ Bypass
IMPEDANCE	120 W RMS @ 100 V (83 Ω) 85 W RMS @ 70 V (57 Ω) 60 W RMS @ 100 V/70 V (166 Ω/83 Ω) 30 W RMS @ 100 V/70V (333 Ω/166 Ω) 15 W RMS @ 100 V/70 V (666 Ω/333 Ω) 7'5 W RMS @ 70 V (666 Ω) Low Z: 6 Ω
SENSITIVITY	85 dB at 1 W/1 m
SOUND PRESSURE	103 dB @ Rated power/1 m
SWITCHER	W selector in high Z and low Z Low pass filter selector: 150 Hz / 400 Hz / Bypass
MATERIAL	MDF
CONNECTORS	Input and output Euroblock
TEMPERATURE RANGE	Operation: -10°C ~ 50°C Storage: -20°C to 50°C
COLOUR	Black (RAL 9005)
DIMENSIONS	545 x 150 x 337 mm depth
WEIGHT	9.4 kg
ACCESSORIES	Wall mounting brackets Screws and mounting accessories
OPTIONAL	Ceiling mount POWERBASS-CMB



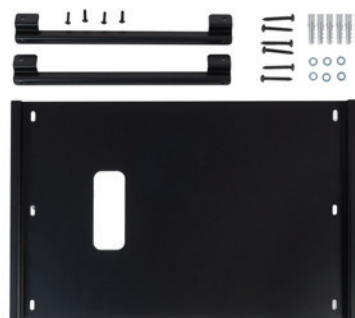
POWERBASS-8TB **N!**

FEATURES	Subwoofer speaker for background music applications. Excellent bass response for reinforcement of bass music content. Bass-reflex reinforcement system. Unique FONESTAR design. 100/70 V line transformer and low impedance. Wall or floor/shelf installation.
POWER	120 W RMS (IEC 60258-5 Average rated power, 100 hours)
SPEAKERS	1 x 8" subwoofer
RESPONSE	47-300 Hz (-10 dB) @ FPB 150 Hz 47-400 Hz (-10 dB) @ FPB 400 Hz 47-650 Hz (-10 dB) @ Bypass
IMPEDANCE	120 W RMS @ 100 V (83 Ω) 85 W RMS @ 70 V (57 Ω) 60 W RMS @ 100 V/70 V (166 Ω/83 Ω) 30 W RMS @ 100 V/70V (333 Ω/166 Ω) 15 W RMS @ 100 V/70 V (666 Ω/333 Ω) 7'5 W RMS @ 70 V (666 Ω) Low Z: 6 Ω
SENSITIVITY	85 dB at 1 W/1 m
SOUND PRESSURE	103 dB @ Rated power/1 m
SWITCHER	W selector in high Z and low Z Low pass filter selector: 150 Hz / 400 Hz / Bypass
MATERIAL	MDF
CONNECTORS	Input and output Euroblock
TEMPERATURE RANGE	Operation: -10°C ~ 50°C Storage: -20°C to 50°C
COLOUR	White (RAL 9003)
DIMENSIONS	545 x 150 x 337 mm depth
WEIGHT	9.4 kg
ACCESSORIES	Wall mounting brackets Screws and mounting accessories
OPTIONAL	Ceiling mount POWERBASS-CMB

Ceiling mount for POWERBASS-8TB and POWERBASS-8TN subwoofers. The sturdy steel construction provides a firm and secure hold for the POWERBASS-8TB and POWERBASS-8TN subwoofers. It's the perfect solution for any installation, restaurants, bars, pubs, event halls, gyms, among others.

POWERBASS-CMB **N!**

FEATURES	Ceiling mount for subwoofer. Made of steel. Screw fixing. Powder coated.
COLOUR	Black (RAL 9005)
DIMENSIONS	Subwoofer bars: 2 u. of 32 x 24 x 277 mm depth Roof plate: 439 x 16 x 279 mm depth
ACCESSORIES	Screws and mounting accessories
WEIGHT	1 kg



LOUDSPEAKERS

ANALOGUE SOUND COLUMNS

Sound column in slim format, compact size with reduced visual impact. Excellent acoustic performance, high sound quality and directivity to direct the sound to the listening area. Aluminium built with 2" humidity resistant speakers.



FCS-16

FCS-21

FEATURES	Column speaker with 100 V line transformer and low impedance. High quality audio and reduced visual impact.	
POWER	15 W	20 W
SPEAKERS	6 x 2"	12 x 2"
RESPONSE	152-20,000 Hz	152-20,000 Hz
IMPEDANCE	High Z 100 V line : 670 Ω (15 W) 1,000 Ω (10 W) 2,000 Ω (5 W) 4,000 Ω (2.5 W) Low Z: 8 Ω	High Z 100 V line : 500 Ω (20 W) 670 Ω (15 W) 1,000 Ω (10 W) 2,000 Ω (5 W) Low Z: 8 Ω
SENSITIVITY	88 dB at 1 W/1 m	89 dB at 1 W/1 m
COVERAGE ANGLE	130° H x 55°	140° h x 30° V
SWITCHES	W selector in high Z, low Z and off	W selector in high Z, low Z and off
CONNECTORS	Screw terminals	Screw terminals
MATERIAL	Grey anodized aluminium	Grey anodized aluminium
DIMENSIONS	7 x 46.7 x 9 cm depth	7 x 83.6 x 9 cm depth
WEIGHT	2.2 kg	3.5 kg
ACCESSORIES	Adjustable fixing mounts	

LOUDSPEAKERS

ANALOGUE SOUND COLUMNS

Sound column with 100V line transformer optimized for voice playback and maximum clarity delivery. Your speaker setup gives you the focus of sound in your target audience area. It avoids the feedback production and therefore increases the capacity of amplification of the sound system. They do not need maintenance to last long, surround and aluminium grid to avoid rusting. Protection IP-44 for outdoor under cover, For installations for voice and background music. Especially in enclosures with a lot of reverberation. Such as religious centres, conference rooms, theatres.



IP-44

ALUMINIUM



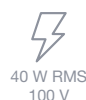
TOWER-20TB **N!**

FEATURES	Sound column with 100V line transformer
POWER	30 W max., 20 W RMS
SPEAKERS	4 x 2 1/2" speakers
RESPONSE	170-15,000 Hz
IMPEDANCE	20 W RMS@100 V (500 Ω) 10 W RMS@100 V (1,000 Ω)
SENSITIVITY	91 dB at 1 W/1 m
COVERAGE ANGLE	170° H x 95° V (1 kHz) 150° H x 75° V (4 kHz)
PROTECTIONS	IP-44
MATERIAL	Aluminium enclosure Aluminium grille
COLOUR	White (RAL 9016)
DIMENSIONS	10.6 x 40.5 x 7.5 cm depth
WEIGHT	2 kg
ACCESSORIES	Fixing mounts



IP-44

ALUMINIUM



TOWER-40TB **N!**

FEATURES	Sound column with 100V line transformer
POWER	60 W max., 40 W RMS
SPEAKERS	8 x 2 1/2" speakers
RESPONSE	170-15,000 Hz
IMPEDANCE	40 W RMS@100 V (250 Ω) 20 W RMS@100 V (500 Ω)
SENSITIVITY	93 dB at 1 W/1 m
COVERAGE ANGLE	155° H x 110° V (1 kHz) 180° H x 70° V (4 kHz)
PROTECTIONS	IP-44
MATERIAL	Aluminium enclosure Aluminium grille
COLOUR	White (RAL 9016)
DIMENSIONS	10.6 x 69.5 x 7.5 cm depth
WEIGHT	3.4 kg
ACCESSORIES	Fixing mounts

LOUDSPEAKERS

DIGITAL SOUND COLUMNS

FONESTAR

Sound column designed for speech and background music applications in rooms with high reverberation.

Software-configurable directivity pattern, selection of acoustic centre, aperture angle, tilt and sound beam shape. Up to 3 sound beams.

High power, high sound quality and high signal-to-noise ratio integrated multi-channel class D amplifier. Digital Signal Processing [DSP].

Remote control via Local Area Network [LAN].

Suitable for public address installations, professional audio or voice evacuation systems.

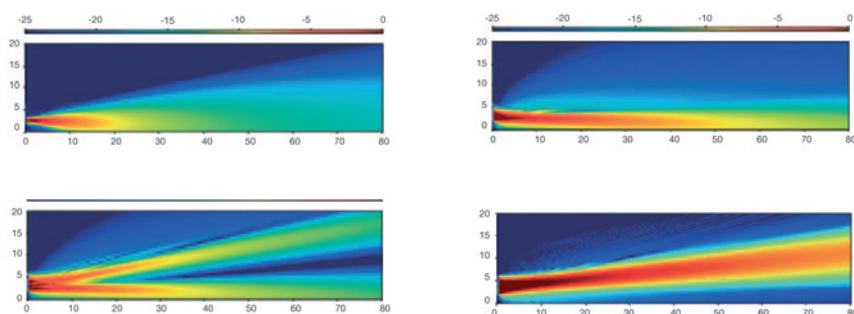
The digital columns

focus sound in the audience area.

Medium - large installations:

FCS-1200D: 940 W Range 40 m.

FCS-1800D: 1,260 W Range 48 m.



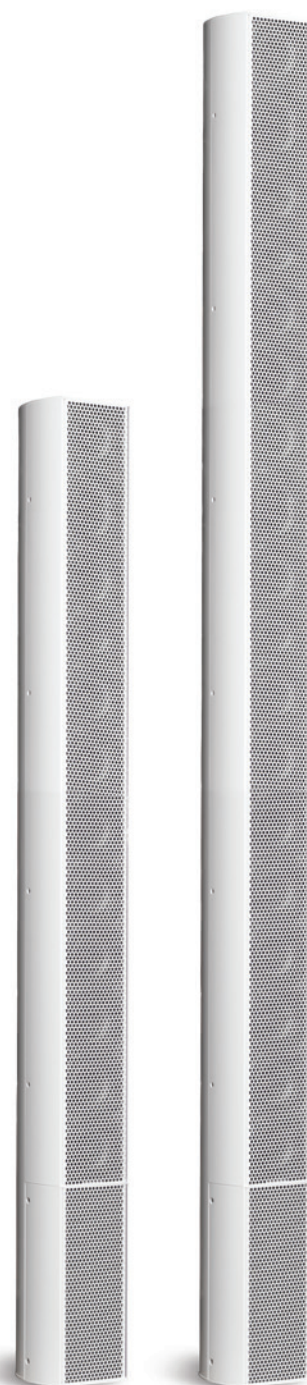
FCS-1200D

FCS-1800D

FEATURES

Column speaker with configurable steering pattern.
Class D multichannel amplifier.
32-bit digital signal processor (DSP).
Configurable beam steering pattern via software.
Emergency power supply source connection.
Remote control through the local area network (LAN) via software.

AMPLIFIER	2 x 6 channel class D amplifiers 12 x 70 W RMS	3 x 6 channel class D amplifiers 18 x 70 W RMS
SPEAKERS	12 x 4 1/4" aluminium double cone, damp-proof	18 x 4 1/4" aluminium double cone, damp-proof
INPUTS	2 balanced line, XLR 600 Ω 775 mV 1 ethernet, 45 RJ 1 RS-485 control, Sub-D	
OUTPUTS	1 balanced line, XLR 600 Ω 775 mV 2 pin opening for fault indication	
FUNCTIONS	Adjustable directivity: acoustic centre, coverage angle (5° to 25°), tilt (-25° to 25°), shape (symmetrical/asymmetrical), up to 3 sound beams 7-band parametric equalisation Noise gate Delay up to 1,000 ms Peak limiter with adjustable level Mute Supervision of amplifiers, input signal and emergency power supply Trim indicator light, limiter and noise door	
RESPONSE	90-18,000 Hz	
S/N RATIO	> 110 dB	
COVERAGE ANGLE	Vertical: 5 to 25°, adjustable via software Horizontal: 145°	
MAXIMUM SPL	93 dB ±1 dB	
SOUND PRESSURE	90 dB ±3 dB at 40 m	90 dB ±3 dB at 48 m
POWER SUPPLY	115-240 V AC 211 W, 16-27 V DC 8.5 A 115-240 V AC 277 W, 16-27 V DC 11 A	
DIMENSIONS	17.7 x 196.8 x 18 cm depth 17.7 x 237 x 18 cm depth	
WEIGHT	27 kg 38 kg	
COLOUR	White (RAL 9016)	
ACCESSORIES	Fixing mounts	



FCS-1200D

FCS-1800D

LOUDSPEAKERS

DIGITAL SOUND COLUMNS

Column speaker with configurable steering designed to focus the sound in the audience area and improve speech intelligence in voice applications and background music, and in premises with high reverberation.



FCS-10101D



FCS-10101D



FCS-10151D



FCS-10151D



FEATURES

FCS-RC01

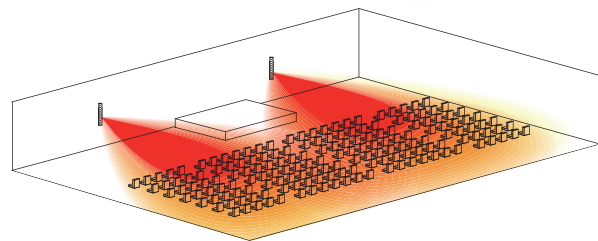
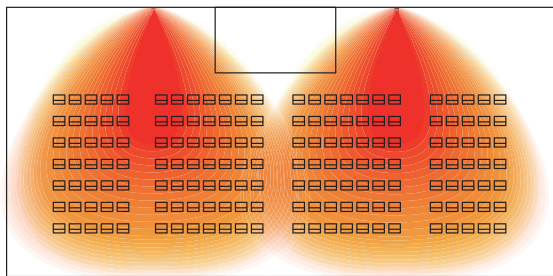
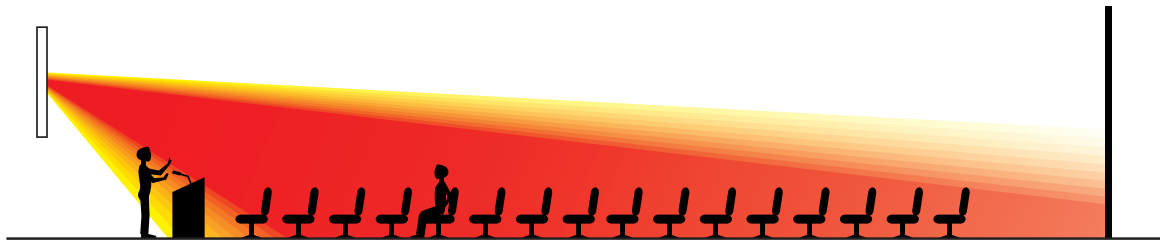
Remote control with display to program column speakers mod. FCS-10101D and FCS-10151D.

The digital columns focus sound in the audience area.

Small - medium installations:

FCS-10101D: 100 W Range 30 m.

FCS-10151D: 150 W Range 40 m.



FCS-10101D

FEATURES

Column speaker with configurable steering pattern.
 10 channel class D amplifier.
 Digital Signal Processing (DSP).
 Input for connection to public address system.
 Configuration using the FCS-RC01 control knob.
 Protected against accidental programming.
 Uniform dispersion in the whole audience area.

FCS-10151D

Column speaker with configurable steering pattern.
 10 channel class D amplifier.
 Digital Signal Processing (DSP).
 Input for connection to public address system.
 Configuration using the FCS-RC01 control knob.
 Protected against accidental programming.
 Uniform dispersion in the whole audience area.

AMPLIFIER	10 x 10 W RMS	10 x 15 W RMS
SPEAKERS	10 x 4"	10 x 5"
INPUTS	1 unbalanced line, XLR 300 mV, 500 mV and 1 V 1 line 100 V, screw or banana plug terminals	1 unbalanced line, XLR 300 mV, 500 mV and 1 V 1 line 100 V, screw or banana plug terminals
OUTPUTS	1 unbalanced line, XLR 300 mV	1 unbalanced line, XLR 300 mV
FUNCTIONS	Adjustable directivity: sound beam tilt ($\pm 45^\circ$), acoustic centre selection Bass and treble tone control 14-band parametric equalisation Sensitivity adjustment (0 dB, -6 dB and -10 dB) Mute	Adjustable directivity: sound beam tilt ($\pm 45^\circ$), acoustic centre selection Bass and treble tone control 14-band parametric equalisation Sensitivity adjustment (0 dB, -6 dB and -10 dB) Mute
RESPONSE	80-18,000 Hz	60-18,000 Hz
COVERAGE ANGLE	Vertical: 50° Horizontal: 120°	Vertical: 50° Horizontal: 120°
SOUND PRESSURE	90 dB ± 3 dB at 30 m	90 dB ± 3 dB at 40 m
POWER SUPPLY	230 V AC, 120 W	230 V AC, 175 W
COLOUR	White (RAL 9003)	White (RAL 9003)
DIMENSIONS	146 x 1,365 x 133 mm depth	155 x 1,595 x 153 mm depth
WEIGHT	15.6 kg	21.3 kg
ACCESSORIES	Fixing mounts	Fixing mounts
	FCS-RC01: remote control with display for programming	FCS-RC01: remote control with display for programming

LOUDSPEAKERS

DIGITAL SOUND COLUMNS

Digital steerable sound column



IP 65

ALUMINIUM

DSP

CLASS-D



240 W RMS

FCS-8250DS **NI**

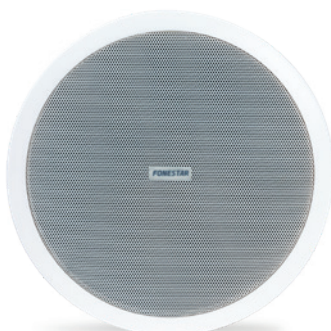
FEATURES	Weather-ready sound column with configurable directivity pattern. 8 channel class D amplifier. Digital Signal Processing (DSP). 15-band graphic equaliser. 100 V input. IP configuration via Web browser.
AMPLIFIER	240 W maximum, 8 x 30 W RMS
SPEAKERS	8 x 5"
INPUTS	1 balanced line, waterproof connector, 1 V 1 100 V line, waterproof connector 1 RJ-45 for Web configuration
OUTPUTS	1 balanced line, waterproof connector, 1 V
FUNCTIONS	Adjustable sound beam tilt: $\pm 45^\circ$ Focal length selection: up to 30 m, automatically sets the beam width (95° to 5°) 15-band graphic equalization Automatic noise gate Mute
RESPONSE	80-18,000 Hz
COVERAGE ANGLE	120° H x 50° V ($\pm 45^\circ$)
SOUND PRESSURE	130 dB at maximum power at 1 m, Pink Noise
PROTECTION	IP-65
MATERIAL	Aluminium grille and body Stainless steel mounts
COLOUR	White (RAL 9003)
POWER SUPPLY	115/230 V AC (internally selectable), 250 W
DIMENSIONS	170 x 1,320 x 170 mm depth
WEIGHT	20.55 kg
ACCESSORIES	Stainless steel fixing mounts Waterproof connectors

LOUDSPEAKERS

BASIC CEILING LOUDSPEAKERS

Ceiling speaker with round grille, for sound systems.

FONESTAR



GAT-501

GAT-601

GAT-801

FEATURES

POWER	6 W RMS
SPEAKERS	5" double cone
RESPONSE	140-15,000 Hz
IMPEDANCE	6 W RMS@100V (1,660 Ω) 3 W RMS@100V (3,330 Ω)
SENSITIVITY	90 dB ±3 dB at 1 W/1 m
MATERIAL	ABS and steel grille
COLOUR	White (RAL 9003)
DIMENSIONS	175 mm Ø x 60 mm depth
HOLE	150 mm Ø
WEIGHT	0.5 kg
	Quick installation system

100 V line transformer ceiling speaker and round grille.

POWER	6 W RMS
SPEAKERS	6 1/2" double cone
RESPONSE	140-20,000 Hz
IMPEDANCE	6 W RMS@100V (1,660 Ω) 3 W RMS@100V (3,330 Ω)
SENSITIVITY	92 dB ±3 dB at 1 W/1 m
MATERIAL	ABS and steel grille
COLOUR	White (RAL 9003)
DIMENSIONS	188 mm Ø x 80 mm depth
HOLE	168 mm Ø
WEIGHT	0.6 kg
	Quick installation system

POWER	10 W RMS
SPEAKERS	8" double cone
RESPONSE	75-16,000 Hz
IMPEDANCE	10 W RMS@100V (1,000 Ω) 5 W RMS@100V (2,000 Ω)
SENSITIVITY	93 dB ±3 dB at 1 W/1 m
MATERIAL	ABS and steel grille
COLOUR	White (RAL 9003)
DIMENSIONS	228 mm Ø x 90 mm depth
HOLE	205 mm Ø
WEIGHT	0.8 kg
	Quick installation system



GA-245

FEATURES

POWER	5 W RMS
SPEAKERS	4 1/2" double cone Hi-Fi
RESPONSE	110-20,000 Hz
IMPEDANCE	8 Ω
SENSITIVITY	90 dB at 1 W/1 m
MATERIAL	ABS and aluminum grille
COLOUR	White (RAL 9010)
DIMENSIONS	170 mm Ø x 55 mm depth
HOLE	155 mm Ø
WEIGHT	0.4 kg
	Quick installation system

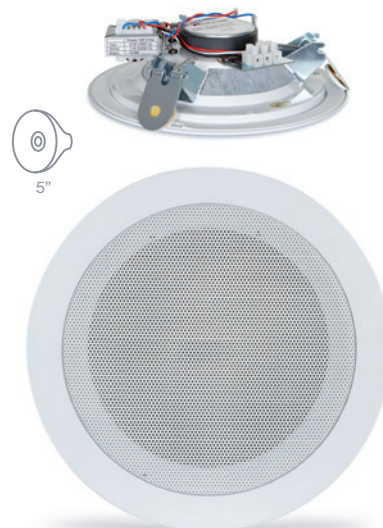
LOUDSPEAKERS

PREMIUM CEILING LOUDSPEAKERS

Ceiling speaker with round grille, for sound systems.

GAT-566

FEATURES	100 V line transformer ceiling speaker and round grille.
POWER	10 W max., 6 W RMS
SPEAKERS	5" double cone
RESPONSE	110-15,000 Hz
IMPEDANCE	High Z 100 V line : 1,660 Ω (6 W) 3,330 Ω (3 W)
SENSITIVITY	90 dB at 1 W/1 m
COVERAGE ANGLE	130°
MATERIAL	Steel
COLOUR	White (RAL 9003)
DIMENSIONS	200 mm Ø x 57 mm depth
HOLE	170 mm Ø
WEIGHT	0.7 kg
	Quick installation system



LOUDSPEAKERS

FRAMELESS CEILING LOUDSPEAKERS

Frameless, low profile, ceiling loudspeaker with round grille, for sound systems.



GAT-4507

FEATURES Ceiling loudspeaker with 100 V line transformer. Frameless. low profile with round grille. Grille height 6 mm. 1 mm wide frame.

POWER	7 W RMS
SPEAKERS	6" double cone
RESPONSE	110-15,000 Hz
IMPEDANCE	High Z 100 V line : 1,430 Ω (7 W)
SENSITIVITY	90 dB ±3 dB at 1 W/1 m
MATERIAL	ABS and aluminum grille
COLOUR	White (RAL 9010)
DIMENSIONS	191 mm Ø x 70 mm depth
HOLE	170 mm Ø
WEIGHT	0.6 kg
	Quick installation system

GAT-4509

FEATURES Ceiling loudspeaker with 100 V line transformer. Frameless. low profile with round grille. Grille height 6 mm. 1 mm wide frame.

POWER	10 W RMS
SPEAKERS	6 1/2" Hi-Fi coaxial with tweeter
RESPONSE	90-20,000 Hz
IMPEDANCE	High Z 100 V line : 1,000 Ω (10 W) 1,660 Ω (6 W)
SENSITIVITY	90 dB ±3 dB at 1 W/1 m
MATERIAL	ABS and aluminum grille
COLOUR	White (RAL 9010)
DIMENSIONS	190 mm Ø x 80 mm depth
HOLE	170 mm Ø
WEIGHT	1 kg
	Quick installation system



GAT-4510

FEATURES Ceiling loudspeaker with 100 V line transformer. Frameless. low profile with round grille. Grille height 5 mm. 1 mm wide frame.

POWER	10 W RMS
SPEAKERS	5" coaxial Hi-Fi with tweeter
RESPONSE	55-20,000 Hz
IMPEDANCE	High Z 100 V line : 1,000 Ω (10 W) 2,000 Ω (5 W) 4,000 Ω (2.5 W)
SENSITIVITY	88 dB at 1 W/1 m
MATERIAL	ABS and steel grille
COLOUR	White (RAL 9010)
DIMENSIONS	216 mm Ø x 94 mm depth
HOLE	187 mm Ø
WEIGHT	1.4 kg
	Anchorage installation system

GAT-4620

FEATURES Ceiling loudspeaker with 100 V line transformer. Frameless. low profile with round grille. Grille height 5 mm. 1 mm wide frame.

POWER	20 W RMS
SPEAKERS	6 1/2" Hi-Fi coaxial with tweeter
RESPONSE	45-20,000 Hz
IMPEDANCE	High Z 100 V line : 500 Ω (20 W) 1,000 Ω (10 W) 2,000 Ω (5 W) 4,000 Ω (2.5 W)
SENSITIVITY	86 dB at 1 W/1 m
MATERIAL	ABS and steel grille
COLOUR	White (RAL 9010)
DIMENSIONS	245 mm Ø x 87 mm depth
HOLE	214 mm Ø
WEIGHT	1.55 kg
	Anchorage installation system

LOUDSPEAKERS

MASTER CEILING LOUDSPEAKERS

Ceiling speakers with round grille, for low-impedance 16 ° sound systems.



GA-5016



GAT-561

GA-5016

GAT-561

FEATURES	Low-impedance ceiling loudspeaker with round grille.	100 V line transformer ceiling speaker and round grille.
POWER	10 W max	10 W max
SPEAKERS	5 1/4" double cone	5 1/4" double cone Hi-Fi
RESPONSE	120-18,000 Hz	135-18,000 Hz
IMPEDANCE	8 Ω	6 W RMS@100V (1,660 Ω) 3 W RMS@100V (3,330 Ω) 1.5 W RMS@100V (6,660 Ω)
SENSITIVITY	87 dB at 1 W/1 m	87 dB at 1 W/1 m
COVERAGE ANGLE	130°	130°
MATERIAL	ABS and steel grille	ABS and steel grille
COLOUR	Grey white (RAL 9003, RAL 7047)	Grey white (RAL 9003, RAL 7047)
DIMENSIONS	204 mm Ø x 60 mm depth	204 mm Ø x 60 mm depth
HOLE	165 mm Ø	165 mm Ø
WEIGHT	0.5 kg	0.8 kg

Anchorage installation system



GA-6017



GAT-661

GA-6017

GAT-661

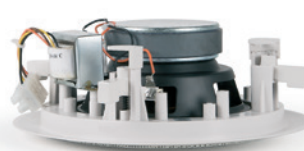
FEATURES	Low-impedance ceiling loudspeaker with round grille.	100 V line transformer ceiling speaker and round grille.
POWER	15 W max	15 W max
SPEAKERS	6 1/2" double cone Hi-Fi	
RESPONSE	110-16,000 Hz	125-15,000 Hz
IMPEDANCE	8 Ω	High Z 100 V line : 1,000 Ω (10 W), 2,000 Ω (5 W) 4,000 Ω (2.5 W), 8,000 Ω (1.25 W)
SENSITIVITY	88 dB at 1 W/1 m	88 dB at 1 W/1 m
COVERAGE ANGLE	130°	
MATERIAL	ABS and steel grille	
COLOUR	Grey white (RAL 9003, RAL 7047)	
DIMENSIONS	228 mm Ø x 70 mm depth	228 mm Ø x 70 mm depth
HOLE	194 mm Ø	
WEIGHT	0.6 kg	0.9 kg

Anchorage installation system

LOUDSPEAKERS

MASTER CEILING LOUDSPEAKERS

Ceiling speakers with round grille, for low-impedance 16 ° sound systems.



8"



8"

GA-8018

GAT-811

FEATURES	Low-impedance ceiling loudspeaker with round grille.	100 V line transformer ceiling speaker and round grille.
POWER	15 W max	15 W max
SPEAKERS	8" double cone Hi-Fi	8" double cone
RESPONSE	100-16,000 Hz	115-15,000 Hz
IMPEDANCE	8 Ω	High Z 100 V line : 1,000 Ω (10 W) 2,000 Ω (5 W) 4,000 Ω (2.5 W) 8,000 Ω (1.25 W)
SENSITIVITY	90 dB at 1 W/1 m	90 dB at 1 W/1 m
COVERAGE ANGLE	130°	130°
MATERIAL	ABS and steel grille	ABS and steel grille
COLOUR	Grey white (RAL 9003, RAL 7047)	Grey white (RAL 9003, RAL 7047)
DIMENSIONS	274 mm Ø x 70 mm depth	274 mm Ø x 70 mm depth
HOLE	237 mm Ø	237 mm Ø
WEIGHT	0.85 kg	1.3 kg
	Anchorage installation system	Anchorage installation system

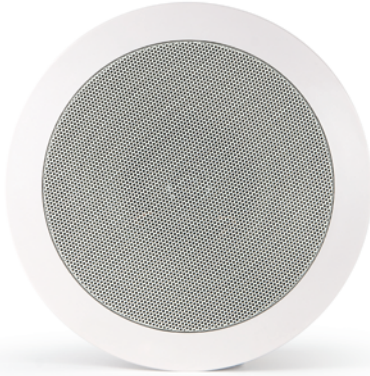
LOUDSPEAKERS

MASTER COAXIAL CEILING LOUDSPEAKERS

FONESTAR

Ceiling speaker with round grille, for sound systems.

Built with coaxial speakers for precise sound. Excellent finish. Perfect for background music.



FEATURES

POWER	40 W max	20 W max
SPEAKERS	5 1/4" Hi-Fi coaxial with tweeter	5 1/4" Hi-Fi coaxial with tweeter
RESPONSE	60-20,000 Hz	60-20,000 Hz
IMPEDANCE	8 Ω	High Z 100 V line : 1,660 Ω (6 W) 3,330 Ω (3 W) 6,660 Ω (1.5 W)
SENSITIVITY	87 dB at 1 W/1 m	87 dB at 1 W/1 m
COVERAGE ANGLE	130°	130°
MATERIAL	ABS and steel grille	ABS and steel grille
COLOUR	Grey white (RAL 9003, RAL 7047)	
DIMENSIONS	204 mm Ø x 70 mm depth	204 mm Ø x 70 mm depth
HOLE	165 mm Ø	165 mm Ø
WEIGHT	1 kg	1.3 kg

Anchorage installation system



FEATURES

POWER	50 W max	25 W max
SPEAKERS	6 1/2" Hi-Fi coaxial with tweeter	6 1/2" coaxial with tweeter
RESPONSE	40-20,000 Hz	40-20,000 Hz
IMPEDANCE	8 Ω	High Z 100 V line : 1,000 Ω (10 W) 2,000 Ω (5 W) 4,000 Ω (2.5 W) 8,000 Ω (1.25 W)
SENSITIVITY	88 dB at 1 W/1 m	88 dB at 1 W/1 m
COVERAGE ANGLE	130°	130°
MATERIAL	ABS and steel grille	ABS and steel grille
COLOUR	Grey white (RAL 9003, RAL 7047)	
DIMENSIONS	228 mm Ø x 75 mm depth	228 mm Ø x 75 mm depth
HOLE	194 mm Ø	194 mm Ø
WEIGHT	1.2 kg	1.5 kg

Anchorage installation system



GA-5027/GA-6028/GA-8029



FEATURES

POWER	60 W max	30 W max
SPEAKERS	8" coaxial with 3/4" tweeter	8" coaxial Hi-Fi with tweeter
RESPONSE	30-20,000 Hz	30-20,000 Hz
IMPEDANCE	8 Ω	High Z 100 V line : 670 Ω (15 W) 1,000 Ω (10 W) 2,000 Ω (5 W) 4,000 Ω (2.5 W)
SENSITIVITY	90 dB at 1 W/1 m	90 dB at 1 W/1 m
COVERAGE ANGLE	130°	130°
MATERIAL	ABS and steel grille	ABS and steel grille
COLOUR	Grey white (RAL 9003, RAL 7047)	
DIMENSIONS	274 mm Ø x 85 mm depth	274 mm Ø x 85 mm depth
HOLE	237 mm Ø	237 mm Ø
WEIGHT	1.4 kg	1.6 kg

Anchorage installation system



GAT-562/GAT-662/GAT-812

LOUDSPEAKERS

HALOGEN SIZED CEILING LOUDSPEAKERS

Ceiling loudspeaker, halogen lamp sized with round grille. Fast installation system.



GA-254



GA-254

FEATURES	Low-impedance ceiling loudspeaker with round grille. Halogen lamp sized.
POWER	10 W max
SPEAKERS	2"
RESPONSE	280-12,000 Hz
IMPEDANCE	8 Ω
SENSITIVITY	80 dB at 1 W/1 m
COVERAGE ANGLE	100°
MATERIAL	Steel
FINISH	White (RAL 9003, RAL 7040)
DIMENSIONS	80 mm Ø x 35 mm depth
HOLE	55 mm Ø
WEIGHT	0.13 kg
	Quick installation system



GA-258



GAT-256



GA-258

FEATURES	Low-impedance ceiling loudspeaker with round grille. Halogen lamp sized.
POWER	10 W max
SPEAKERS	2 1/2" Hi-Fi
RESPONSE	190-18,000 Hz
IMPEDANCE	8 Ω
SENSITIVITY	86 dB at 1 W/1 m
COVERAGE ANGLE	130°
MATERIAL	ABS and steel grille
COLOUR	Grey white (RAL 9003, RAL 7047)
DIMENSIONS	100 mm Ø x 70 mm depth
HOLE	92 mm Ø
WEIGHT	0.4 kg
	Quick installation system



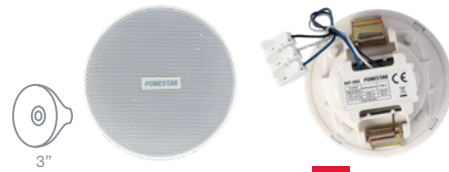
GAT-256

FEATURES	100 V line transformer ceiling speaker and round grille. Halogen lamp sized.
POWER	10 W max
SPEAKERS	2 1/2" Hi-Fi
RESPONSE	190-18,000 Hz
IMPEDANCE	High Z 100 V line : 1,660 Ω (6 W), 3,330 Ω (3 W), 6,660 Ω (1.5 W)
SENSITIVITY	86 dB at 1 W/1 m
COVERAGE ANGLE	130°
MATERIAL	ABS and steel grille
COLOUR	Grey white (RAL 9003, RAL 7047)
DIMENSIONS	100 mm Ø x 80 mm depth
HOLE	92 mm Ø
WEIGHT	0.6 kg
	Quick installation system



GAT-251

FEATURES	Ceiling loudspeaker with 100 V line transformer. Square frame and round grille. Halogen lamp sized.
POWER	10 W max
SPEAKERS	3" Hi-Fi
RESPONSE	150-20,000 Hz
IMPEDANCE	High Z 100 V line : 1,660 Ω (6 W), 2,500 Ω (4 W), 5,000 Ω (2 W)
SENSITIVITY	87 dB at 1 W/1 m
COVERAGE ANGLE	120° at 1 kHz, 90° at 4 kHz
MATERIAL	Steel
COLOUR	White (RAL 9003)
DIMENSIONS	103.5 x 103.5 x 85 mm depth
HOLE	85 mm Ø
WEIGHT	0.6 kg
	Quick installation system



GAT-252 N!

FEATURES	Ceiling loudspeaker with 100 V line transformer. Halogen lamp sized. Fast installation system.
POWER	6 W RMS@100 V (1,660 Ω) 3 RMS@100/70 V (3,330 Ω/1,660 Ω) 1.5 W RMS@100 V (3,330 Ω)
SPEAKERS	3" Hi-Fi
RESPONSE	120-20,000 Hz
SENSITIVITY	88 dB at 1 W/1 m
COVERAGE ANGLE	120°
MATERIAL	ABS and aluminum grille
COLOUR	White (RAL 9003)
DIMENSIONS	104 mm Ø x 76 mm depth
HOLE	92 mm Ø
WEIGHT	0.42 kg
	Quick installation system



GA-259

FEATURES	Low-impedance ceiling loudspeaker with round grille. Halogen lamp sized.
POWER	10 W max
SPEAKERS	3" Hi-Fi
RESPONSE	130-20,000 Hz
IMPEDANCE	8 Ω
SENSITIVITY	87 dB at 1 W/1 m
COVERAGE ANGLE	120° at 1 kHz - 90° at 4 kHz
MATERIAL	Steel
COLOUR	White (RAL 9003)
DIMENSIONS	105 mm Ø x 50 mm depth
HOLE	85 mm Ø
WEIGHT	0.4 kg
	Quick installation system



GAT-257

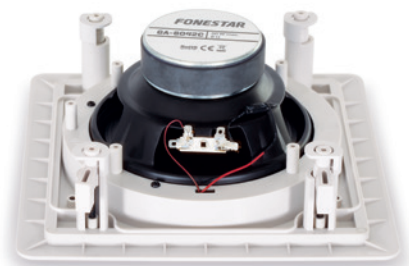
FEATURES	100 V line transformer ceiling speaker and round grille. Halogen lamp sized.
POWER	15 W max
SPEAKERS	3" Hi-Fi
RESPONSE	130-20,000 Hz
IMPEDANCE	12 W RMS@100 V (833 Ω). 6 W RMS@100 V (1,660 Ω). 3 W RMS@100 V (3,330 Ω)
SENSITIVITY	87 dB at 1 W/1 m
COVERAGE ANGLE	120° at 1 kHz, 90° at 4 kHz
MATERIAL	Steel
COLOUR	White (RAL 9003)
DIMENSIONS	105 mm Ø x 85 mm depth
HOLE	85 mm Ø
WEIGHT	0.5 kg
	Quick installation system



LOUDSPEAKERS

SQUARE CEILING LOUDSPEAKERS

Coaxial ceiling loudspeaker with square grille, for sound systems, with high quality audio.



5 1/4"

GA-5041C

FEATURES	Coaxial ceiling loudspeaker with low impedance and square grille.	GA-6042C	Square grille, low impedance coaxial Hi-Fi ceiling speaker.
POWER	40 W max	50 W max	
SPEAKERS	5 1/4" coaxial Hi-Fi with adjustable dome tweeter	6 1/2" coaxial Hi-Fi with adjustable dome tweeter	
RESPONSE	70-20,000 Hz	56-20,000 Hz	
IMPEDANCE	8 Ω	8 Ω	



6 1/2"

SENSITIVITY	87 dB at 1 W/1 m	88 dB at 1 W/1 m
COVERAGE ANGLE	130°	130°
MATERIAL	ABS and steel grille	ABS and steel grille
COLOUR	Grey white (RAL 9003, RAL 7047)	White
DIMENSIONS	215 x 215 x 89 mm depth	236 x 236 x 100 mm depth
HOLE	177 x 177 mm	204 x 204 mm
WEIGHT	1.3 kg	1.6 kg
	Anchorage installation system	Anchorage installation system

LOUDSPEAKERS

DOMES CEILING LOUDSPEAKERS

Ceiling speakers with round grille and fireproof case.

GAT-436F

FEATURES	Ceiling loudspeaker with 100 V line transformer, round grille and case.
POWER	3 W RMS@100 V (3,330 Ω)
SPEAKERS	4"
RESPONSE	160-20,000 Hz
SENSITIVITY	90 dB ±3 dB at 1 W/1 m
COVERAGE ANGLE	150°
MATERIAL	ABS and steel grille
COLOUR	White (RAL 9003)
DIMENSIONS	149 mm Ø x 63 mm depth
HOLE	132 mm Ø
WEIGHT	0.4 kg
	Quick installation system



4"



LOUDSPEAKERS

OUTDOOR CEILING LOUDSPEAKERS

Ceiling speaker with round grille for sound systems. Waterproof, anti-corrosive material. U.V. protection
Perfect for humid and marine environments.



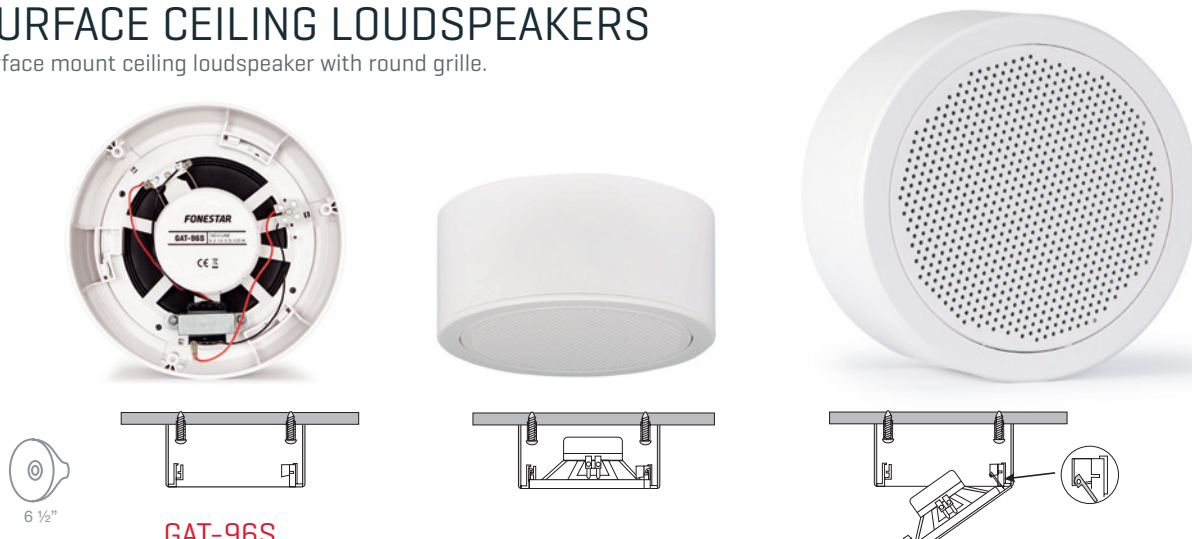
GAT-813W

FEATURES	Outdoor weatherproof ceiling loudspeaker with 100 V line transformer.
POWER	100 W max., 50 W RMS
SPEAKERS	8" PP Mica coaxial Hi-Fi with tweeter
RESPONSE	50-20,000 Hz
IMPEDANCE	High Z 100 V line : 670 Ω (15 W), 1,000 Ω (10 W), 2,000 Ω (5W), 4,000 Ω (2.5 W), 8,000 Ω (1.25 W)
SENSITIVITY	90 dB at 1 W/1 m
COVERAGE ANGLE	135°
PROTECTION	IP-65
MATERIAL	ASA plastic chassis and grille (highly resistant plastic in extreme conditions)
COLOUR	White (RAL 9003)
DIMENSIONS	250 mm Ø x 97 mm depth
HOLE	220 mm Ø
WEIGHT	1.2 kg
	Quick installation system

LOUDSPEAKERS

SURFACE CEILING LOUDSPEAKERS

Surface mount ceiling loudspeaker with round grille.



GAT-96S

FEATURES	Surface mount ceiling loudspeaker with 100 V line transformer and round grille.
POWER	6 W RMS
SPEAKERS	6 1/2" double cone
RESPONSE	110-20,000 Hz
IMPEDANCE	High Z 100 V line : 1,650 Ω (6 W), 3,300 Ω (3 W), 6,600 Ω (1.5 W), 13,300 Ω (0.75 W), 40,000 Ω (0.25 W)
SENSITIVITY	93 dB at 1 W/1 m
COVERAGE ANGLE	130°
MATERIAL	ABS
COLOUR	White
DIMENSIONS	203 mm Ø x 90 mm depth
WEIGHT	0.9 kg
ACCESSORIES	Surface installation system

LOUDSPEAKERS

SUBWOOFER CEILING LOUDSPEAKERS

Subwoofer speaker with round grille.
Bass boost in 100 V line installations.



GAT-1SUB

GAT-80SW

GAT-4860SW

FEATURES

Subwoofer ceiling loudspeaker with 100 V line transformer and low impedance, round grille and fireproof case.
Bass reflex radiation system.
Bass boost in 100 V line installations.

Ceiling subwoofer, with 100 V line transformer and round grille.
Bass boost in 100 V line installations.

Ceiling subwoofer with 100 V line transformer and low profile frameless grille.
Bass boost in 100 V line installations.

POWER	90 W max., 60 W RMS	90 W max., 60 W RMS	90 W max., 60 W RMS
SPEAKERS	1 x 8" woofer	1 x 8" woofer	1 x 8" woofer
RESPONSE	40-170 Hz	55-200 Hz -10 dB at 1 W/1m	55-200 Hz -10 dB at 1 W/1m
IMPEDANCE	High Z 100 V line : 166 Ω (60 W), 333 Ω (30 W), 666 Ω (15 W) Low Z: 8 Ω	High Z 100 V line : 166 Ω (60 W), 250 Ω (40 W), 500 Ω (20 W)	High Z 100 V line : 166 Ω (60 W), 250 Ω (40 W), 500 Ω (20 W)
SENSITIVITY	86 dB at 1 W/1 m	89 dB at 1 W/1 m	90 dB at 1 W/1 m
CROSSOVER	-	Low-pass filter, 12 dB/oct.	Low-pass filter, 12 dB/oct.
SUSPENSION POINTS	4 points for hanging from the ceiling	-	-
MATERIAL	ABS, steel grille and fireproof case. Ceramic connectors	ABS and steel grille	ABS and steel grille
COLOUR	White (RAL 9010)	Grey white (RAL 9003, RAL 7047)	White (RAL 9003)
DIMENSIONS	350 mm Ø x 320 mm depth	272 mm Ø x 110 mm depth	281 mm Ø x 110 mm depth
HOLE	309 mm Ø	240 mm Ø	242 mm Ø
WEIGHT	7.5 kg	2.6 kg	2.7 kg
ACCESSORIES	Chain for hanging Anchorage installation system Safety fastening	- Anchorage installation system	- Anchorage installation system

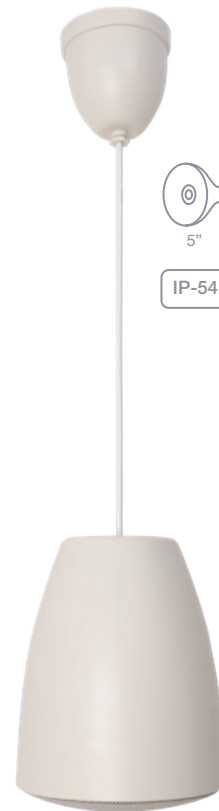
LOUDSPEAKERS

HANGING SPHERES

FONESTAR

Hanging spheres with horizontal omnidirectional coverage for large areas, sports centres, industrial buildings, etc., with excellent results, avoiding reverberation and echo problems.

	EF-333
FEATURES	Hanging loudspeaker with 100 V line transformer and low impedance. Coaxial speaker, crisp and clean sound. Uniform horizontal coverage. Modern design.
POWER	30 W RMS@8 Ω 30 W RMS@100/70 V (330 Ω/170 Ω) 20 W RMS@100/70 V (500 Ω/250 Ω) 15 W RMS@100/70 V (660 Ω/330 Ω) 10 W RMS@100/70 V (1,000 Ω/500 Ω) 5 W RMS@100/70 V (2,000 Ω/1,000 Ω)
SPEAKERS	Woofers: 5" Tweeter ½"
RESPONSE	70-20,000 Hz
SENSITIVITY	91 dB at 1 W/1 m
COVERAGE ANGLE	90° horizontal x 90° vertical
PROTECTIONS	IP-54
MATERIAL	Extra resistant ABS
COLOUR	White (RAL 9002)
CABLE	4 m
DIMENSIONS	187 mm Ø x 245 mm high
WEIGHT	2.1 kg
ACCESSORIES	Ceiling fixing mount



LOUDSPEAKERS

SOUND PROJECTORS

Weatherproof sound projectors. One-way or two-way sound radiation with two speakers.

Their features make them suitable for indoor and outdoor public address installations, with excellent musical and vocal response.

	PF-10T
FEATURES	Pair of sound projectors with 100 V line transformer. Prepared for outdoor use, water protection and anti-corrosion materials.
POWER	10 W RMS
SPEAKER	2 1/2"
RESPONSE	200-20,000 Hz
IMPEDANCE	10 W RMS@100 V (1,000 Ω) 5 W RMS@100 V (2,000 Ω) Low Z: 8 Ω
SENSITIVITY	88 dB at 1W/1m
COVERAGE ANGLE	120°
PROTECTIONS	IP-65
MATERIAL	Weatherproofed grille. ABS. Hermetic casing. Stainless steel screws
CONNECTORS	Euroblock with protective cover
COLOUR	White (RAL 9010)
DIMENSIONS	96 mm Ø x 139 mm



LOUDSPEAKERS

SOUND PROJECTORS

Weatherproof sound projectors. One-way or two-way sound radiation with two speakers. Their features make them suitable for indoor and outdoor public address installations, with excellent musical and vocal response.



PF-24T



PF-25TD



PF-24T



PF-25TD

FEATURES	PF-24T	PF-25TD
POWER	10 W	10 W
SPEAKERS	5" double cone, varnished cardboard	2 x 5" double cone, varnished
RESPONSE	130-15,000 Hz	130-15,000 Hz
IMPEDANCE	High Z 100 V line : 1,000 Ω (10 W) 2,000 Ω (5 W) 4,000 Ω (2.5 W)	High Z 100 V line : 1,000 Ω (10 W) 2,000 Ω (5 W) 4,000 Ω (2.5 W)
SENSITIVITY	91 dB at 1 W/1 m	91 dB at 1 W/1 m
COVERAGE ANGLE	170° at 1 kHz	170° bidirectional at 1 kHz
PROTECTIONS	IP-55	IP-55
MATERIAL	ABS. Hermetic casing. Aluminium mount and grille	ABS. Hermetic casing. Aluminium mount and grille
COLOUR	White (RAL 9016)	White (RAL 9016)
DIMENSIONS	138 mm Ø x 205 mm depth	138 mm Ø x 200 mm depth
WEIGHT	1.5 kg	1.7 kg
ACCESSORIES	Adjustable fixing mount	

Weatherproof sound projectors. One-way or two-way sound radiation with two speakers. Their features make them suitable for indoor and outdoor public address installations, with excellent musical and vocal response.



PF-19T



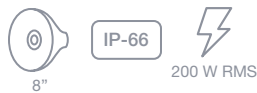
PF-20T



PF-21T

FEATURES	PF-19T	PF-20T	PF-21T
POWER	20 W	15 W	20 W
SPEAKERS	6 1/2" Hi-Fi	2 x 5 1/2" Hi-Fi	2 x 6 1/2" Hi-Fi
RESPONSE	100-20,000 Hz	140-20,000 Hz	100-20,000 Hz
IMPEDANCE	High Z 100 V line : 500 Ω (20 W) 1,000 Ω (10 W) 2,000 Ω (5 W)	High Z 100 V line : 670 Ω (15 W) 1,300 Ω (7.5 W) 2,600 Ω (3.75 W)	High Z 100 V line : 500 Ω (20 W) 1,000 Ω (10 W) 2,000 Ω (5 W)
SENSITIVITY	94 dB at 1 W/1 m	92 dB at 1 W/1 m	94 dB at 1 W/1 m
COVERAGE ANGLE	150°	150° bidirectional	150° bidirectional
PROTECTIONS	IP-44	IP-44	IP-44
MATERIAL	ABS. Hermetic casing. Stainless steel mount.	ABS. Hermetic casing. Stainless steel mount.	ABS. Hermetic casing. Stainless steel mount.
COLOUR	White (RAL 9001)	White cream (RAL 9001)	Ivory (RAL 9001)
DIMENSIONS	180 mm Ø x 251 mm depth	150 mm Ø x 196 mm depth	180 mm Ø x 251 mm depth
WEIGHT	2.1 kg	2.24 kg	2.9 kg
ACCESSORIES	Adjustable fixing mount		

Loudspeaker



AQUA-8TG NI



AQUA-12TG NI

FEATURES	Loudspeaker with 100 V line transformer and low impedance 8 Ω. High-powered woofer and diffuser driver for a richly nuanced, defined and undistorted sound. Sound with great range and coverage. Enhanced bass. Robust and compact construction. Weatherproofed grille. Outdoor-ready, IP 66 water protection and anti-corrosion materials.
POWER	250 W max., 200 W RMS
SPEAKERS	1 x 8" woofer 1 x 1" compression driver
RESPONSE	70-20,000 Hz (-10 dB)
IMPEDANCE	200 W RMS@8 Ω 200 W RMS@100 V/70 V (50 Ω/25 Ω) 100 W RMS@70 V (50 Ω) 150 W RMS@100 V (66 Ω) 75 W RMS@100 V/70 V (133 Ω/66 Ω) 37.5 W RMS@70 V (133 Ω)
SENSITIVITY	96 dB at 1 W/1 m
SOUND PRESSURE	119 dB max power at 1 m
COVERAGE ANGLE	80° H x 50° V at 1 kHz/-6 dB
CROSSOVER	2 ways Crossover frequency at 3.000 Hz
SWITCHER	W selector at high Z and low Z
PROTECTIONS	66 IP
MATERIAL	Weatherproofed steel grille and mount Stainless steel screws
CONNECTORS	Screw terminals
COLOUR	Grey (RAL 7035)
DIMENSIONS	319 x 308 x 350 mm depth
WEIGHT	12.2 kg
ACCESSORIES	Adjustable fixing mount Steel safety cable

FEATURES	Loudspeaker with 100 V line transformer and low impedance 8 Ω. High-powered woofer and diffuser driver for a richly nuanced, defined and undistorted sound. Sound with great range and coverage. Robust and compact construction. Weatherproofed grille. Outdoor-ready, IP 66 water protection and anti-corrosion materials.
POWER	500 W max., 300 W RMS
SPEAKERS	1 x 12" woofer 1 x 1¾" compression driver
RESPONSE	50-20,000 Hz (-10 dB)
IMPEDANCE	300 W RMS@8 Ω 300 W RMS@100 V/70 V (33 Ω/16.5 Ω) 150 W RMS@100 V/70 V (66 Ω/33 Ω) 75 W RMS@100 V/70 V (133 Ω/66 Ω) 37.5 W RMS@70 V (133 Ω)
SENSITIVITY	99 dB at 1 W/1 m
SOUND PRESSURE	124 dB max power at 1 m
COVERAGE ANGLE	90° H x 80° V at 1 kHz/-6 dB
CROSSOVER	2 ways Crossover frequency at 2.000 Hz
SWITCHER	W selector at high Z and low Z
PROTECTIONS	66 IP
MATERIAL	Weatherproofed steel grille and mount Stainless steel screws
CONNECTORS	Screw terminals
COLOUR	Grey (RAL 7035)
DIMENSIONS	427 x 419 x 397 mm depth
WEIGHT	18.7 kg
ACCESSORIES	Adjustable fixing mount Steel safety cable

LOUDSPEAKERS

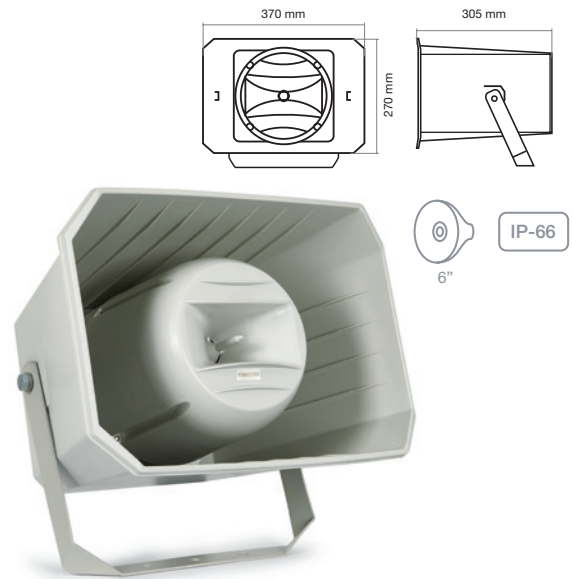
DIFFUSER SOUND PROJECTORS

Diffuser sound projectors.

Long range and low audio dispersion. Quality audio, recommended for outdoor use. Weather-resistant IP66.

PF-35T

FEATURES	Sound projector with diffuser and 100 V line transformer.
POWER	50 W RMS@100 V (200 Ω) 30 W RMS@100 V (330 Ω) 15 W RMS@100 V (670 Ω)
SPEAKERS	1 x 6" weather-resistant woofer 1 x 1" tweeter 1 x 1" tweeter
RESPONSE	90-20,000 Hz
SENSITIVITY	99 dB at 1 W/1 m
COVERAGE ANGLE	90° H x 80° V
PROTECTIONS	IP-66
MATERIAL	ABS. Hermetic casing. Weatherproofed mount. Stainless steel screws
COLOUR	Grey (RAL 7032, RAL 7034)
DIMENSIONS	356 x 256 x 292 mm depth
WEIGHT	3.5 kg
ACCESSORIES	Adjustable fixing mount



LOUDSPEAKERS

LOW IMPEDANCE HORN SPEAKERS

Horn speakers with exponential diffuser, manufactured in aluminium.

Robust construction in light and strong aluminium.

Suitable for indoor and outdoor PA installations.



	FE-96	FE-107	FE-149
FEATURES	Low impedance horn speaker.		
POWER	25 W max	30 W max	40 W max
RESPONSE	300-9,000 Hz	250-7,500 Hz	250-7,500 Hz
IMPEDANCE	8 Ω	8 Ω	8 Ω
SENSITIVITY	103 dB at 1 W/1 m	104 dB at 1 W/1 m	106 dB at 1 W/1 m
COVERAGE ANGLE	115° H x 60° V	135° H x 95° V	130° H x 90° V
MATERIAL	Aluminium	Aluminium	Aluminium
COLOUR	Grey (RAL 7004)	Grey (RAL 7004)	Grey
DIMENSIONS	21 x 15 x 20 cm depth	23.5 x 17.5 x 25 cm depth	35 x 23 x 33.5 mm depth

LOUDSPEAKERS

LOW IMPEDANCE PREMIUM HORN SPEAKERS

Horn speakers with exponential diffuser, built in ABS and aluminium.

Highly resistant to knocks, adverse weather conditions, etc.

High quality and excellent frequency response for professional indoor and outdoor public address installations.



IP-66

IP-66

IP-66

FE-1110

FE-1210

FE-1310

FEATURES	Low impedance horn speaker.		
POWER	15 W max	30 W max	30 W max
RESPONSE	280-12,500 Hz	250-12,500 Hz	250-12,500 Hz
IMPEDANCE	8 Ω	8 Ω	8 Ω
SENSITIVITY	105 dB at 1 W/1 m	107 dB at 1 W/1 m	107 dB at 1 W/1 m
COVERAGE ANGLE	145° H x 95° V	140° H x 90° V	130°
PROTECTIONS	IP-66	IP-66	IP-66
MATERIAL	ABS	ABS	ABS/Aluminium
COLOUR	Ivory	Ivory (RAL 1015)	Ivory (RAL 1014, RAL 1015)
DIMENSIONS	22 x 16 x 23 cm depth	29 x 21 x 26 cm depth	26 cm Ø x 26 cm depth
WEIGHT	1.1 kg	1.5 kg	1.5 kg

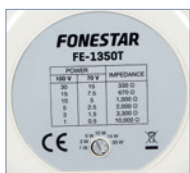
LOUDSPEAKERS

PREMIUM 100 V LINE HORN SPEAKERS

Horn speakers with exponential diffuser, built in ABS and aluminium.

Highly resistant to knocks, adverse weather conditions, etc.

High quality and excellent frequency response for professional indoor and outdoor public address installations.



IP-66

IP-66

IP-66

FE-1150T

FE-1250T

FE-1350T

FEATURES	Horn speaker with 100 V line transformer.		
POWER	15 W max	30 W max	30 W max
RESPONSE	280-12,500 Hz	250-12,500 Hz	250-12,500 Hz
IMPEDANCE	High Z 100 V line : 670 Ω (15 W), 1,000 Ω (10 W) 2,000 Ω (5 W), 3,300 Ω (3 W) 10,000 Ω (1 W)	High Z 100 V line : 330 Ω (30 W), 670 Ω (15 W) 1,000 Ω (10 W), 2,000 Ω (5 W) 3,300 Ω (3 W), 10,000 Ω (1 W)	High Z 100 V line : 330 Ω (30 W), 670 Ω (15 W) 1,000 Ω (10 W), 2,000 Ω (5 W) 3,300 Ω (3 W), 10,000 Ω (1 W)
SENSITIVITY	105 dB at 1 W/1 m	107 dB at 1 W/1 m	107 dB at 1 W/1 m
COVERAGE ANGLE	145° H x 95° V	140° H x 90° V	130°
SWITCHES	W selector in high Z	W selector in high Z	W selector in high Z
PROTECTIONS	IP-66	IP-66	IP-66
MATERIAL	ABS	ABS	ABS/Aluminium
COLOUR	Ivory	Ivory	Ivory (RAL 1014, RAL 1015)
DIMENSIONS	22 x 16 x 23 cm depth	29 x 21 x 26 cm depth	26 cm Ø x 26 cm depth
WEIGHT	1.3 kg	1.7 kg	1.7 kg

LOUDSPEAKERS

100 V LINE HORN SPEAKERS

Horn speaker with exponential diffuser and round mouth, manufactured in aluminium. Suitable for all types of indoor and outdoor public address installations in large areas.

Robust construction.



TI-14

ALUMINIUM

FEATURES	Horn speaker with 100 V line transformer.
POWER	25 W
RESPONSE	200-10,000 Hz
IMPEDANCE	High Z 100 V line : 400 Ω (25 W) 500 Ω (20 W) 670 Ω (15 W) 1,000 Ω (10 W)
SENSITIVITY	107 dB at 1 W/1 m
COVERAGE ANGLE	110°
MATERIAL	Aluminium
COLOUR	Grey
DIMENSIONS	36 cm Ø x 41 cm depth
WEIGHT	2.5 kg



ALUMINIUM

TI-17 **N!**

FEATURES	Horn speaker with 100 V line transformer.
POWER	70 W max., 50 W RMS
RESPONSE	380-6,500 Hz (-10 dB) 550-5,000 Hz (+/-3dB)
IMPEDANCE	50 W RMS@11 Ω 50 W RMS@100 V (200 Ω) 25 W RMS@100 V (400 Ω) 12.5 W RMS@100 V (800 Ω) 6.25 W RMS@100 V (1.600 Ω)
SENSITIVITY	107 dB +/-3 dB at 1 W/1 m
MAXIMUM SOUND PRESSURE	122 dB (Max. W/1m)
COVERAGE ANGLE	H, V: 120° (1 kHz)
CONTROLS	W selector at high Z and low Z
PROTECTIONS	IP-56
MATERIAL	Aluminium horn. Powder coated for outdoor use. ABS housing. Stainless steel screws and mount 304 - A2
TEMPERATURE RANGE	- 40°C to 70°C
COLOUR	White (RAL 7035)
DIMENSIONS	24 cm Ø x 29 cm depth
WEIGHT	2.6 kg

LOUDSPEAKERS

DIFFUSERS

Aluminium built exponential diffuser . Suitable for all types of indoor and outdoor public address installations in large areas. With standard 1 3/8" thread for use with high power drivers.



ALUMINIUM

RD-14

FEATURES	Horn speaker with standard 1 3/8" thread for driver.
COVERAGE ANGLE	110°
MATERIAL	Aluminium
COLOUR	Grey (RAL 9007)
DIMENSIONS	36 cm Ø x 27 cm depth
WEIGHT	1.5 kg



ALUMINIUM

RD-165

ALUMINIUM

RD-205

FEATURES	Horn speaker with standard 1 3/8" thread for driver.	
COVERAGE ANGLE	110°	100°
MATERIAL	Aluminium	Aluminium
COLOUR	Grey (RAL 9006)	Grey (RAL 9006)
DIMENSIONS	41 cm Ø x 30 cm depth	51 cm Ø x 38 cm depth
WEIGHT	1.5 kg	1.9 kg

Horn diffuser four drivers, long range.
Suitable for all types of outdoor public address installations in large spaces. Aluminium built.

**ALUMINIUM****RD-45**

FEATURES	Multi-driver horn speaker. Standard 1 3/8" thread for drivers. Allows 4 drivers with maximum dimensions of 120 mm Ø x 175 mm depth. Supplied with drivers: PLEASE ENQUIRE.
MATERIAL	Aluminium
COLOUR	Grey (RAL 7004)
DIMENSIONS	46 cm Ø x 47.5 cm depth
WEIGHT	7 kg

LOUDSPEAKERS DRIVERS

Driver for exponential diffuser. Robust and compact construction. Standard 1 3/8" thread for installation in diffusers. Suitable for all types of indoor and outdoor public address installations in large areas. Great variety of models with different powers.



RM-40



RM-62

FEATURES	Low impedance driver for horn speaker with 1 3/8" standard thread.	
POWER	40 W max	60 W max
RESPONSE	180-6,500 Hz	150-6,000 Hz
IMPEDANCE	16 Ω	16 Ω
SENSITIVITY	107 dB at 1 W/1 m	109 dB at 1 W/1 m
COLOUR	Grey (RAL 7048)	Grey (RAL 9006)
DIMENSIONS	110 mm Ø x 114 mm depth	114 mm Ø x 112 mm depth
WEIGHT	1.5 kg	1.65 kg



RM-102



RM-110S

FEATURES	Low impedance driver for horn speaker with 1 3/8" standard thread.	Low impedance, high power driver especially designed for sirens, alarms, etc., for exponential diffuser with standard 1 3/8" thread.
POWER	100 W max	100 W max
RESPONSE	100-10,000 Hz	260-8,500 Hz
IMPEDANCE	16 Ω	11 Ω
SENSITIVITY	110 dB at 1 W/1 m	116 dB at 1 W/1 m
COLOUR	Grey	Black
DIMENSIONS	120 mm Ø x 123 mm depth	116 mm Ø x 106 mm depth
WEIGHT	2.1 kg	3.3 kg



RM-35T



RM-61T

FEATURES	Driver with 100 V line transformer for horn diffuser with 1 3/8" standard thread. Aluminium lid and plastic base.	
POWER	35 W	60 W
RESPONSE	150-6,000 Hz	200-6,000 Hz
IMPEDANCE	High Z 100 V line : 285 Ω (35 W), 500 Ω (20 W) 1,000 Ω (10 W)	High Z 100 V line : 166 Ω (60 W), 250 Ω (40 W) 500 Ω (20 W)
SENSITIVITY	114 dB at 1 W/1 m	114 dB at 1 W/1 m
COLOUR	Grey	Grey
DIMENSIONS	130 mm Ø x 137 mm depth	130 mm Ø x 140 mm depth
WEIGHT	1.9 kg	2.5 kg

LOUDSPEAKERS

GARDEN LOUDSPEAKERS

Garden loudspeaker, rock imitation for PA in gardens, parks, golf courses, hotels, shopping centres, etc. Special for outdoor use.



IP-56

FR-620T

FEATURES	Garden speaker with 100 V line transformer. Weatherproof.
POWER	40 W max., 20 W RMS
SPEAKERS	PP 5" coaxial with tweeter
RESPONSE	150-20,000 Hz
IMPEDANCE	High Z 100 V line : 500 Ω (20 W)
SENSITIVITY	86 dB at 1 W/1 m
PROTECTIONS	IP-56
MATERIAL	Resin Aluminium grille
DIMENSIONS	280 x 225 x 210 mm depth
WEIGHT	2.8 kg

Garden speaker with protected components.



IP-66 360°



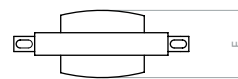
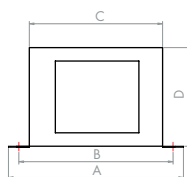
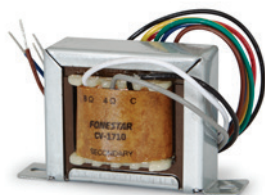
FR-525T

FEATURES	Garden speaker with 100 V line transformer. Weatherproof.
POWER	25 W max
SPEAKERS	1 x 5" woofer
RESPONSE	100-14,000 Hz
IMPEDANCE	High Z 100 V line : 400 Ω (25 W) 800 Ω (12.5 W)
SENSITIVITY	90 dB at 1 W/1 m
COVERAGE ANGLE	360°
PROTECTIONS	IP-66
MATERIAL	ABS
COLOUR	Green
DIMENSIONS	310 mm Ø x 350 mm high
WEIGHT	3.6 kg
ACCESSORIES	Mount for floor fixing

LOUDSPEAKERS

LINE TRANSFORMERS

100 V line transformers for low impedance loudspeakers.

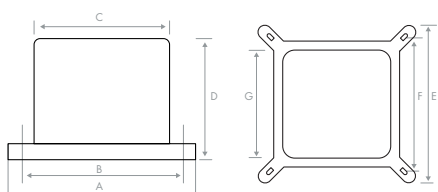


	POWER	IMPEDANCE	OUTPUTS	DIMENSIONS	WEIGHT
CV-175	100 V line: 5, 3, 2, 1, 0.5 W	2,000, 3,333, 5,000, 10,000, 20,000 Ω	Low Z for 4-8 Ω loudspeakers	A: 62mm, B: 53mm, C: 43mm, D: 35mm, E: 34mm.	0.2 kg
CV-1710	100 V line: 10, 7.5, 5, 2.5, 1.25 W	1,000, 1,330, 2,000, 4,000, 8,000 Ω	Low Z for 4-8 Ω loudspeakers	A: 72mm, B: 60mm, C: 50mm, D: 42mm, E: 35mm.	0.3 kg
CV-1715	100 V line: 15, 10, 5, 2.5, 1.25 W	670, 1,000, 2,000, 4,000, 8,000 Ω	Low Z for 4-8 Ω loudspeakers	A: 71mm, B: 60mm, C: 50mm, D: 42mm, E: 41mm.	0.3 kg
CV-1720	100 V line: 20, 15, 10, 5, 2.5 W	500, 670, 1,000, 2,000, 4,000 Ω	Low Z for 4-8 Ω loudspeakers	A: 71mm, B: 60mm, C: 50mm, D: 42mm, E: 42mm.	0.34 kg
CV-1730	100 V line: 30, 20, 10 W	333, 500, 1,000 Ω	Low Z for 4-8 Ω loudspeakers	A: 82mm, B: 70mm, C: 60mm; D: 49mm, E: 47mm.	0.56 kg
CV-1740	100 V line: 40, 30, 20, 10 W	250, 333, 500, 1,000 Ω	Low Z for 4-8 Ω loudspeakers	A: 92mm, B: 80mm, C: 68mm, D: 57mm, E: 50mm.	0.7 kg
CV-1750	100 V line: 50, 40, 30, 20 W	200, 250, 333, 500 Ω	Low Z for 4-8 Ω loudspeakers	A: 93mm, B: 82mm, C: 68mm, D: 57mm, E: 56mm.	0.9 kg
CV-17125	100 V line: 120, 60, 30 W	83, 166, 333 Ω	Low Z for 4-8 Ω loudspeakers	A: 102mm, B: 91mm, C: 78mm, D: 67mm, E: 69mm.	1.5 kg



CV-1815W

	POWER	IMPEDANCE	OUTPUTS	DIMENSIONS	WEIGHT	PROTECTIONS
CV-1815W	100 V line: 15, 10, 5, 2.5, 1.25 W	670, 1,000, 2,000, 4,000, 8,000 Ω	Low Z for 8 Ω loudspeakers	A: 72mm, B: 62mm, C: 51mm, D: 54mm, E: 35mm.	0.2 kg	IP-65



TF-7550

FEATURES	100 and 70 V line transformer for low impedance loudspeakers.
POWER	50 W
OUTPUTS	Low Z for 4, 8 and 16 Ω speakers
DIMENSIONS	A: 111 mm, B: 96 mm; C: 89 mm; D: 72 mm; E: 107 mm; F: 92 mm G: 86 mm
WEIGHT	1.9 kg

100 V line to aux line signal transformer.



TFL-100

FEATURES	100 V line to aux line signal transformer. Adjustable output level. DC insulated input and output.
INPUTS	1 x 100 V line, euroblock
OUTPUTS	1 unbalanced aux line, 1 x RCA and XLR, adjustable 0-1.5 V
DIMENSIONS	173 x 60 x 90 mm depth
WEIGHT	0.55 kg

100 V line transformer for amplifiers Converts the output of a low impedance [4-8 Ω] stereo amplifier or power amplifier into a high impedance output for loudspeakers with a 100 V or 70 V line transformer.
Allows the simultaneous connection of low impedance and 100 V line loudspeakers.
It is ideal for PA and surround sound applications where a large number of loudspeakers need to be connected to a single amplifier.



TFA-500

FEATURES 100 V line transformer for amplifiers
Converts the output of a low-impedance (4-8 Ω) stereo amplifier or power amplifier into a high-impedance output for loudspeakers with 100 V or 70 V line transformer.

POWER	500 + 500 W RMS
RESPONSE	20-20,000 Hz
DISTORTION	Harmonic: < 0.1%
PROTECTIONS	Temperature, overcurrent and RF filter
INDICATOR LIGHTS	Input signal
INPUTS	2 inputs, 4-8 Ω, screw terminals and banana plugs
OUTPUTS	Loudspeakers: 100 and 70 V lines, screw terminals, selectable stereo or parallel modes
DIMENSIONS	483 x 72 x 236 mm depth. Approximately 1.5 U 19" rack
WEIGHT	8.7 kg

LOUDSPEAKERS

100 V ATTENUATORS

Attenuators for flush or surface mounting and accessories.



100 V

DOT-12TR

FEATURES

100 V line attenuator with autotransformer for flush or surface mounting. 2-wire input and 3- and 4-wire priority systems (24 V).

POWER

12 W max

INPUTS

High Z 100 V line

OUTPUTS

High Z 100 V line

DIMENSIONS

Total: 83 x 83 x 50 mm depth
Socket: 50 x 50 x 38 mm depth

CONTROLS

10 dimming and off positions

WEIGHT

0.2 kg

For standard universal square box, round for plasterboard partitions and for surface installation box mod. DOT-BOX.
Distance between screws: 60 mm



100 V

DOT-30TR

100 V line attenuator with autotransformer for flush or surface mounting. 2-wire input and 3- and 4-wire priority systems.

30 W max

High Z 100 V line

High Z 100 V line

Total: 83 x 83 x 50 mm depth
Socket: 50 x 50 x 38 mm depth

6 dimming and off positions

0.2 kg

For standard universal square box, round for plasterboard partitions and for surface installation box mod. DOT-BOX.
Distance between screws: 60 mm



100 V

DOT-60TR

100 V line attenuator with autotransformer for flush or surface mounting. 2-wire input and 3- and 4-wire priority systems.

60 W max

High Z 100 V line

High Z 100 V line

Total: 83 x 83 x 50 mm depth
Socket: 50 x 50 x 37.8 mm depth

6 dimming and off positions

0.2 kg

For standard universal square box, round for plasterboard partitions and for surface installation box mod. DOT-BOX.
Distance between screws: 60 mm

100 V

DOT-100TR

100 V line attenuator with autotransformer for flush or surface mounting. 2-wire input and 3- and 4-wire priority systems.

100 W max

High Z 100 V line

High Z 100 V line

Total: 83 x 83 x 50 mm depth
Socket: 50 x 50 x 38 mm depth

6 dimming and off positions

0.2 kg

For standard universal square box, round for plasterboard partitions and for surface installation box mod. DOT-BOX.
Distance between screws: 60 mm



Designed by FONESTAR



DOT-BOX-B DOT-BOX-N

FEATURES

ABS standard square universal surface installation box for DOT series attenuators.

COLOUR

White

Black

DIMENSIONS

83 x 83 x 50 mm depth
Distance between screws: 60 mm



Designed by FONESTAR

DOT-01N

FEATURES

Panel for DOT series attenuators.

COLOUR

Black

DIMENSIONS

83 x 83 x 13 mm depth

LOUDSPEAKERS

IMPEDANCE METERS

Impedance meter for low impedance loudspeakers or loudspeaker lines, and with 100 or 70 V line transformer. An indispensable tool for the public address installer. Allows testing of the loudspeaker line and measurement of the resulting impedance.



MI-21

FEATURES

Impedance meter at 1 kHz for loudspeaker lines. Allows the impedance of loudspeaker lines to be checked and the estimated power necessary in a 100 or 70 V line installation, in order to choose the correct amplifier. 3 measurement ranges: 200 Ω, 2 kΩ and 20 kΩ. Easy to read LCD display. Power meter for 70 and 100 V line loudspeakers. Easy handling.

INPUTS

2 banana plugs to connect the test leads.

RESOLUTION (MEASURED ACCURACY)

200 Ω: 0.1 Ω (±1% ±2)
2 kΩ: 1 Ω (±1% ±2)
20 kΩ: 10 Ω (±1% ±2)

POWER SUPPLY

9 V DC, 1 x 9 V 6LR61 type battery

DIMENSIONS

87 x 188 x 38 mm depth

WEIGHT

0.4 kg

ACCESSORIES

Rubber protector
2 sets of test leads: with alligator clip terminals and precision tips

LOUDSPEAKERS

LOW IMPEDANCE ATTENUATORS

Attenuators for flush or surface mounting and accessories.



4-8 Ω MONO

DOT-10M

Low impedance mono attenuator for flushed or surface mounting.

4-8 Ω MONO

DOT-30M

Low impedance mono attenuator for flushed or surface mounting.

4-8 Ω MONO

DOT-60M

Low impedance mono transformer attenuator for flushed or surface mounting. The transformer provides better sound quality and volume control accuracy.

4-8 Ω MONO

DOT-100M

Low impedance mono transformer attenuator for flushed or surface mounting. The transformer provides better sound quality and volume control accuracy.

FEATURES

POWER	10 W max	30 W max	60 W max	100 W max
OUTPUTS	Low Z for 4-8 Ω loudspeakers	Low Z for 4-8 Ω loudspeakers	Low Z for 4-8 Ω loudspeakers	Low Z for 4-8 Ω loudspeakers
DIMENSIONS	Total: 83 x 83 x 33 mm depth Socket: 50 x 50 x 21 mm depth	Total: 83 x 83 x 33 mm depth Socket: 50 x 50 x 21 mm depth	Total: 83 x 83 x 50 mm depth Socket: 50 x 50 x 38 mm depth	Total: 83 x 83 x 50 mm depth Socket: 50 x 50 x 45 mm depth
CONTROLS	6 dimming and off positions	6 dimming and off positions	6 dimming and off positions	6 dimming and off positions
WEIGHT	0.1 kg	0.1 kg	0.2 kg	0.2 kg
	For standard universal square box, round for plasterboard partitions and for surface installation box mod. DOT-BOX. Distance between screws: 60 mm	For standard universal square box, round for plasterboard partitions and for surface installation box mod. DOT-BOX. Distance between screws: 60 mm	For standard universal square box, round for plasterboard partitions and for surface installation box mod. DOT-BOX. Distance between screws: 60 mm	For standard universal square box, round for plasterboard partitions and for surface installation box mod. DOT-BOX. Distance between screws: 60 mm



4-8 Ω MONO

DOT-210ST

FEATURES

Low impedance stereo attenuator for flush or surface mounting.

POWER

10 + 10 W maximum

OUTPUTS

Low Z for 4-8 Ω loudspeakers

DIMENSIONS

Total: 83 x 83 x 43 mm depth
Socket: 50 x 50 x 35 mm depth

CONTROLS

6 dimming and off positions

WEIGHT

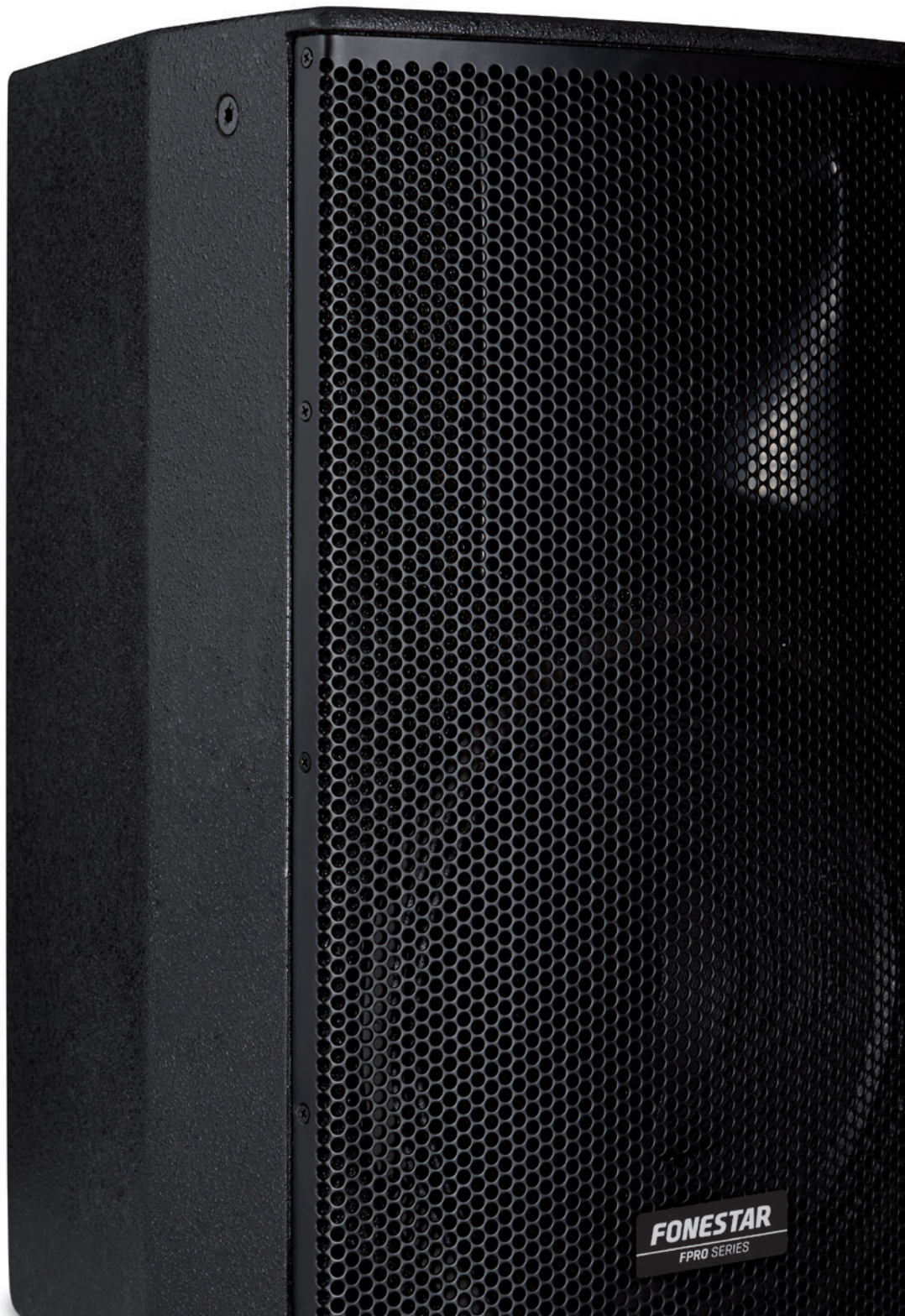
0.1 kg

For standard universal square box, round for plasterboard partitions and for surface installation box mod. DOT-BOX.
Distance between screws: 60 mm

148	PRO AUDIO
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150	PREMIUM stereo
151	MASTER stereo
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182	For ships and cars
184	Shielded magnet
184	Miniature

FONESTAR

PRO AUDIO



POWER AMPLIFIER PREMIUM STEREO

Versatile professional power amplifier with great performance, stability and reliability.



SA-1208



SA-204/SA-606



	SA-1208	SA-204	SA-606
FEATURES	Professional stereo power amplifier	Professional stereo power amplifier	Professional stereo power amplifier
POWER	Stereo and parallel mode: 1,500 + 1,500 W RMS at 2 Ω 900 + 900 W RMS at 4 Ω 600 + 600 W RMS at 8 Ω Bridge mode: 1,600 W RMS at 8 Ω	Stereo mode: 150 + 150 W RMS at 4 Ω 100 + 100 W RMS at 8 Ω Bridge mode: 200 W RMS at 8 Ω	Stereo and parallel mode: 400 + 400 W RMS at 4 Ω 300 + 300 W RMS at 8 Ω Bridge mode: 700 W RMS at 8 Ω
PROTECTIONS	Soft start, temperature, short circuit, overload, DC and AC Forced ventilation with adjustable speed	Temperature, short circuit and overload Forced ventilation	3 circuits: temperature, short-circuit, and overload
CONTROLS	Volume of each channel Operating mode selector parallel/stereo/bridge Limiter and input filter GND lift ground disconnection	Volume of each channel Operating mode selector parallel/stereo/bridge GND lift ground disconnection	Volume of each channel GND lift ground disconnection Operating mode selector parallel/stereo/bridge
INPUTS	2 balanced auxiliary line, XLR and 6.3 mm jack 20,000 Ω, 1.4 V	1 balanced aux, XLR, 20,000 Ω 1.3 V RMS 1 unbalanced auxiliary line, RCA, 10,000 Ω 0.75 V RMS	2 unbalanced auxiliary lines, 6.3 mm jack and RCA, 20,000 Ω, 1.3 V
RESPONSE	10-50,000 Hz, -1.5 dB	10-50,000 Hz	10-50,000 Hz
DISTORTION	Harmonic: < 0.03 %	Harmonic: < 0.05%	Harmonic: < 0.05%
DAMPING FACTOR	> 500	> 150	> 150
S/N RATIO	> 103 dB	> 85 dB	> 90 dB
CROSSTALK	> 105 dB	> 70 dB	> 70 dB
SLEW RATE	70 V/μs	30 V/μs	30 V/μs
OUTPUTS	Loudspeakers 2-8 Ω stereo, screw terminals and banana plugs or speaker connector 8 Ω mono bridge, speaker connector	Loudspeakers: 4-8 Ω stereo, screw terminals and banana plugs or speaker connector 8 Ω mono bridge, screw terminals and banana plugs or speaker connector	Loudspeakers: 4-8 Ω stereo, 6.3 mm mono jack, screw terminals and banana plugs or speaker connector 8 Ω mono bridge, screw terminals and banana plugs
POWER SUPPLY	230 V AC, 3,000 W max	230/115 V AC, 700 W max	230/115 V AC, 1,000 W max
DIMENSIONS	483 x 89 x 480 mm depth 2 U rack 19"	483 x 88 x 350 mm depth 2 U rack 19"	483 x 89 x 350 mm depth 2 U rack 19"
WEIGHT	17.6 kg	7.6 kg	12 kg

POWER AMPLIFIERS MASTER STEREO

Versatile professional power amplifiers with great performance, stability and reliability.

FONESTAR



SA2-1750



SA2-3400



SA2-1750

Professional stereo power amplifier

SA2-3400

Professional stereo power amplifier

FEATURES	Professional stereo power amplifier	Professional stereo power amplifier
POWER	Stereo and parallel mode: 450 + 450 W RMS at 8 Ω 675 + 675 W RMS at 4 Ω 880 + 880 W RMS at 2 Ω Bridge mode: 1,350 W RMS at 8 Ω 1,750 W RMS at 4 Ω	Stereo and parallel mode: 850 + 850 W RMS at 8 Ω 1,275 + 1,275 W RMS at 4 Ω 1,700 + 1,700 W RMS at 2 Ω Bridge mode: 2,550 W RMS at 8 Ω 3,400 W RMS at 4 Ω
PROTECTIONS	Soft start, temperature, short circuit, overcharge, clip limiter, continuous voltage, ultrasound and RF 2 variable speed fans	Soft start, temperature, short circuit, overcharge, clip limiter, continuous voltage, ultrasound and RF 2 variable speed fans
CONTROLS	Volume of each channel Operating mode selector stereo/parallel/bridge Sensitivity selector GND lift ground disconnection 30Hz high pass filter	Volume of each channel Operating mode selector stereo/parallel/bridge Sensitivity selector GND lift ground disconnection 30Hz high pass filter
INPUTS	2 balanced aux line inputs XLR	2 balanced aux line inputs XLR
RESPONSE	20-20,000 Hz	20-20,000 Hz
DISTORTION	Harmonic: < 0.05%	Harmonic: < 0.08%
DAMPING FACTOR	400	400
S/N RATIO	> 90 dB	> 95 dB
OUTPUTS	2 loudspeaker outputs	2 loudspeaker outputs
POWER SUPPLY	230 V AC, 990 W max	230 V AC, 1,880 W max
DIMENSIONS	483 x 89 x 488 mm depth	483 x 89 x 488 mm depth. 2 U rack 19"
WEIGHT	18.6 kg	24.3 kg

POWER AMPLIFIERS

DIGITAL STEREO

Professional class D digital stereo power amplifier. High efficiency, great stability and reliability.



DSA-302

FEATURES	Professional digital stereo power amplifier. High efficiency class D amplifier circuit. Switched power supply.
POWER	Stereo and parallel mode: 300 + 300 W RMS at 4 Ω 200 + 200 W RMS at 8 Ω Bridge mode: 600 W RMS at 8 Ω
FUNCTIONS	Forced ventilation Power on, priority and signal peak indicator lights
PROTECTIONS	Soft start, temperature, short circuit, overload, VHF, DC and AC Limiter per channel
CONTROLS	Volume of each channel Operating mode selector stereo/parallel/bridge GND lift ground disconnection
INPUTS	2 balanced aux lines, combo (XLR and 6.3 mm jack) 20,000 Ω 650 mV (4 Ω), 750 mV (8 Ω)
RESPONSE	20-20,000 Hz
DISTORTION	Harmonic: < 0.1%
DAMPING FACTOR	> 200
S/N RATIO	> 100 dBA
SLEW RATE	20 V/μs
OUTPUTS	Loudspeakers 4-8 Ω stereo, screw terminals and banana plugs or speaker connector 8 Ω mono bridge, screw terminals and banana plugs or speaker connector
POWER SUPPLY	230/115 V AC, 900 W
DIMENSIONS	482 x 44 x 165 mm depth. 1 U rack 19"
WEIGHT	2.6 kg

MIXERS

DJ

DJ Mixer



MIX-3DJ **N!**

FEATURES	Compact DJ mixer with 3 stereo channels and 1 microphone. USB audio input/output for PC connection as an audio card, allows you to play audio from your PC and record it simultaneously. Bluetooth receiver. USB recorder/player. CUE pre-listening. Output level indicator lights. Talk over for microphone level reduction (-15 dB).
USB PLAYER	Playback formats: WAV and MP3 MP3 recording USB port for connection of USB sticks or connection to PC as audio card
INPUTS	1 unbalanced mic, 6.3 mm jack, 1,000 Ω 1 mV RMS 1 line/Bluetooth player/USB/PC, 2 x RCA, 10,000 Ω 2 line/phono stereo, 2 x RCA, 10,000 Ω 220 mV RMS/50,000 Ω 3 mV RMS
OUTPUTS	1 stereo master, 2 x RCA, 600 Ω 1.22 V RMS 1 stereo headphones, 6.3 mm jack 8 Ω 200 mW
FUNCTIONS	CUE pre-listen Output level light indicators Talk over for level reduction with mic (-15 dB)
RESPONSE	20-20,000 Hz
DISTORTION	Harmonic: < 0.04%
S/N RATIO	> 80 dB
POWER SUPPLY	12 V DC, 1 A including adapter
DIMENSIONS	235 x 55 x 135 mm depth
WEIGHT	0.7 kg

Professional 12-input, 8-channel mixer [3 microphones and 5 lines] with USB/SD/MP3 player, assignable to 2 master outputs with independent volume control. Talk over function and pre-listen via headphones. Independent volume control. Talk over function and pre-listen via headphones



SM-1860U

FEATURES	Professional mixer with 12 inputs, 8 channels, assignable to 2 master outputs with independent volume control. USB/SD/MP3 player.
PLAYER	Plays MP3 files from USB/SD or PC USB port for connection of USB memory sticks and connection to PC as USB Audio device SD card reader ID3 tag information
INPUTS	1 balanced combo mic (XLR and 6.3 mm jack), 1,700 Ω 10 mV RMS, 2 balanced XLR mics, 1,700 Ω 10 mV RMS. 7 stereo unbalanced lines 22,000 Ω 200 mV RMS and 2 phono/aux 2 x RCA 47,000 Ω 4 mV RMS / 47,000 Ω 200 mV RMS
CONTROLS	MIC1: volume, bass (±12 dB, 100 Hz), treble (±12 dB, 10,000 Hz), echo effect and talkover MIC2 and MIC3: volume, bass (±12 dB, 100 Hz), treble (±12 dB, 10,000 Hz) and echo effect Input channels: input selector, sliding volume, assignment to master 1, master 2 and headphone pre-listen, indicator light for assignment of each output Master 1 and master 2: volume, Bass (+12, -32 dB, 100 Hz), medium (+12, -32 dB, 1,500 Hz) and treble (+12, -32 dB, 10,000 Hz), mid and treble, balance and level indicator light Booth output: volume control Headphone output: volume control USB/SD player: play/pause, access menu, equalization and repeat mode, song forward and backward, and volume control.
FUNCTIONS	Assignment matrix of 5 input channels to 2 master outputs Pre-listen via headphones CUE assignable to each channel 3-band equalizer on master outputs Output level indicator lights master 1 and master 2 Talk over for level reduction on MIC 1 input
OUTPUTS	Master 1 (2 x XLR and 2 x RCA), master 2 (2 x RCA), recording (2 x RCA), booth (2 x RCA) and stereo headphones (6.3 mm jack)
RESPONSE	20-20,000 Hz
S/N RATIO	Micro: 75 dB Phono: 55 dB Line/Aux: 75 dB
POWER SUPPLY	230-115 V AC, 10 W max
DIMENSIONS	483 x 89 x 205 mm depth. 2 U rack 19"
WEIGHT	4 kg

MIXERS STUDIO

Stereo mixers for microphones and line or auxiliary inputs.



SM-303SC

FEATURES	3-channel stereo mixer. Audio USB input/output for connection to PC.
INPUTS	1 balanced mic./line, combo (XLR and 6.3 mm jack) 1 line, 2 x RCA 1 CD/tape in stereo, 2 x RCA 1 USB audio
CONTROLS	Channel 1: gain, bass (± 15 dB, 80 Hz), treble (± 15 dB, 12,000 Hz), pan and volume control Channels 2/3: bass (± 15 dB, 80 Hz), treble (± 15 dB, 12,000 Hz), balance, volume control and line or USB input type selector Master: volume control, volume control monitor CD/Tape: mapping to main and/or monitor output
FUNCTIONS	LED power on indicator Channel 1 peak LED indicator Master output signal excess (clip) LED indicator lights
OUTPUTS	1 stereo main, 3.5 mm jack 1 stereo monitor, 3.5 mm jack 1 CD/tape out stereo, 2 x RCA 1 USB audio
PHANTOM	20 V
RESPONSE	20-20,000 Hz
DISTORTION	Harmonic: 0.01 %
POWER SUPPLY	5 V DC, 500 mA with adapter included or through USB
DIMENSIONS	98 x 42 x 135 mm depth
WEIGHT	0.4 kg
ACCESSORIES	USB A male to USB B male AC/DC adapter with USB A female output connector



MIX-4LIVE **N!**

FEATURES	Compact DJ mixer with 3 stereo channels and 1 microphone. USB audio input/output for PC connection as an audio card, allows you to play audio from your PC and record it simultaneously. Bluetooth receiver. USB recorder/player. CUE pre-listening. Output level indicator lights. Talk over for microphone level reduction (-15 dB).
USB PLAYER	Playback formats: WAV and MP3 MP3 recording USB port for connection of USB sticks or connection to PC as audio card
INPUTS	1 unbalanced mic, 6.3 mm jack, 1,000 Ω 1 mV RMS 1 line/Bluetooth player/USB/PC, 2 x RCA, 10,000 Ω 2 line/phono stereo, 2 x RCA, 10,000 Ω 220 mV RMS/50,000 Ω 3 mV RMS
OUTPUTS	1 stereo master, 2 x RCA, 600 Ω 1.22 V RMS 1 stereo headphones, 6.3 mm jack 8 Ω 200 mW
FUNCTIONS	CUE pre-listen Output level light indicators Talk over for level reduction with mic (-15 dB)
RESPONSE	20-20,000 Hz
DISTORTION	Harmonic: < 0.04%
S/N RATIO	> 80 dB
POWER SUPPLY	12 V DC, 1 A including adapter
DIMENSIONS	235 x 55 x 135 mm depth
WEIGHT	0.7 kg
DIMENSIONS	175 x 55 x 190 mm depth
WEIGHT	0.6 kg
ACCESSORIES	3.5 mm TRRS male-male audio cable USB-A to USB-C power cable USB power adapter

Studio mixer.


MIX-6LIVE **NI**

FEATURES	4-channel mono and 1-channel stereo mixer. Live streaming function, connect your smartphone for live streaming. USB audio input/Output for PC connection as an audio card, allows you to play audio from your PC and record it simultaneously. Bluetooth receiver. USB recorder/player. 16 digital effects processor.
USB PLAYER	Plays or records MP3 files USB-C port for connection to PC as an audio card Stereo line-level auxiliary input
INPUTS	4 balanced microphones/lines, combo (XLR, 600 Ω 15 mV RMS and 6.3 mm jack, 47.000 Ω 200 mV RMS) 1 balanced stereo line channel, 2 x 6.3 mm jack, 47,000 Ω 250 mV RMS 1 stereo auxiliary, 3.5 mm jack, 47,000 Ω 1 V RMS 1 stereo auxiliary (live streaming), 3.5 mm TRRS jack, 47.000 Ω 250 mV RMS 1 microphone, 3.5 mm jack TS, 600 Ω 15 mV RMS 1 USB/PC, stereo
CONTROLS	6 controls per channel: gain, 3-band equalizer, pan, volume and clip indicator light Effects and level selection Headphone volume Independent volume control for main and aux/monitor output
FUNCTIONS	3-band equaliser per channel Over signal indicator and master output level indicator light Live streaming USB/PC
OUTPUTS	1 balanced/unbalanced stereo main, 2 x 6.3 mm jack, 2 x RCA, 2.5 V RMS 1 balanced aux/monitor, 6.3 mm jack, 2 V RMS 1 stereo aux (live streaming), 3.5 mm TRRS jack, 0.5 V RMS 1 stereo headphones, 3.5 mm jack 1 USB/PC, stereo
PHANTOM	48 V on channels 1 and 2, selectable
RESPONSE	20-20,000 Hz
DISTORTION	Harmonic: 0.04 %
S/N RATIO	> 65 dB
POWER SUPPLY	5 V DC, 2.1 A with adapter included
DIMENSIONS	210 x 70 x 237 mm depth

MIXERS STUDIO PRO

Studio mixer.



MIX-8PRO **N!**

N!

FEATURES	Professional 8-channel mixer with 2 outputs and independent volume controls. USB audio input for connection to PC as audio card, allows to play audio from PC. USB recorder/player. 16 digital effects processor.
USB PLAYER	Playback formats: WAV and MP3 MP3 recording USB port for connection of USB drives or connection to PC as audio card Supports memory up to 128 GB
INPUTS	8 balanced XLR mics, 600 Ω 2mV (LED peak, 1 kHz, 20 mV RMS) 8 unbalanced lines 6.3 mm jack, 47,000 Ω 45 mV (LED peak, 1 kHz, 180 mV RMS) 2 balanced returns, 2 x 6.3 mm jack, 47,000 Ω 300 mV RMS
OUTPUTS	1 stereo main (2 x XLR or 2 x 6.3 mm jack), 5 V RMS 1 stereo line, 2 x RCA, 5 V RMS 1 post-fader send, 6.3 mm jack, 5 V RMS 1 stereo headphone, 6.3 mm jack
CONTROLS	Mic/line: bass suppression filter (18 dB/octave, 75 Hz), gain, bass (±15 dB, 80 Hz), mid (±15 dB, 2,500 Hz), treble (±15 dB, 12,000 Hz), aux/EFX send, pan, mute and slide volume control USB recorder/player: mode, play/pause/rec, fast forward and rewind, bass (±15 dB, 80 Hz), treble (±15 dB, 12,000 Hz) and slider volume control Main: sliding volume control Phones: volume control Post-fader aux send: volume control Aux return: volume control DSP effects processor: effect selection, repeat and slider volume control
FUNCTIONS	Sliders per channel 3-band EQ on channels 1 to 8 2-band EQ on USB recorder/player Over signal and master output level indicator lights
PHANTOM	48 V, selectable
RESPONSE	20-20,000 Hz
DISTORTION	Harmonic: 0.07 %
S/N RATIO	> 65 dB
POWER SUPPLY	100-240 V AC, 20 W maximum
DIMENSIONS	390 x 80 x 320 mm depth
WEIGHT	3.8 kg
OPTIONAL	SM-8PRO: mounts for assembly in 19" rack

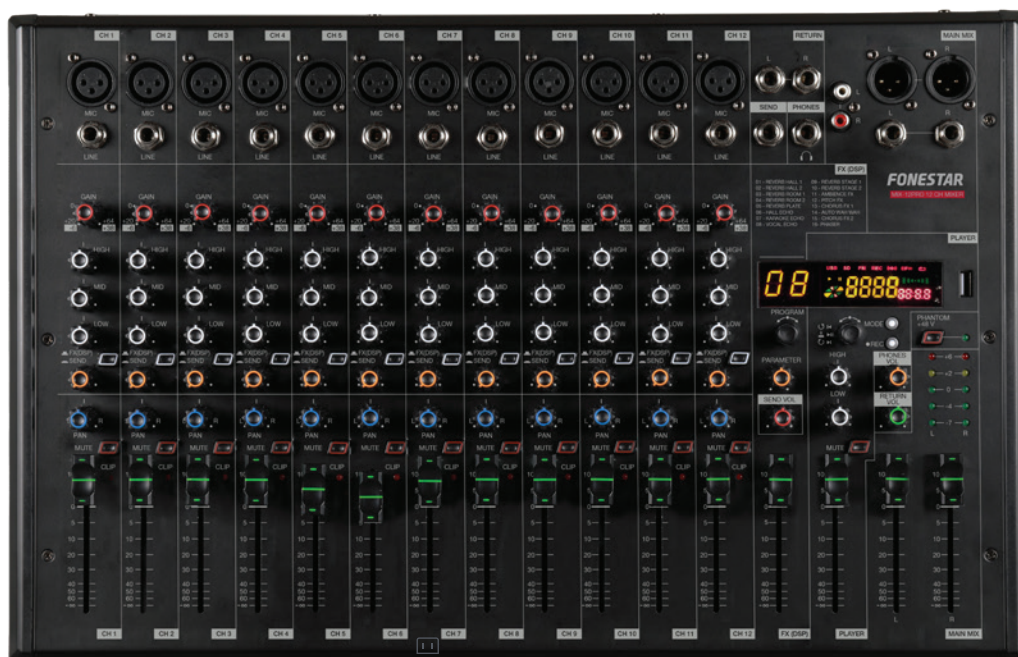
MIX-8PRO mixer for assembly mount in 7 U 19" rack.

SM-8PRO **N!**

FEATURES	MIX-8PRO mixer assembly mount for 7 U 19" rack.
COLOUR	Black
WEIGHT	0.5 kg



Studio mixer.


MIX-12PRO

FEATURES	Professional 12-channel mixer with 2 outputs and independent volume controls. USB audio input/output for PC connection as an audio card, allows you to play audio from your PC and record it simultaneously. Bluetooth receiver. USB recorder/player. 16 digital effects processor.
USB PLAYER	Playback formats: WAV and MP3 MP3 recording USB port for connection of USB drives or connection to PC as audio card Supports memory up to 128 GB
INPUTS	12 balanced XLR mics, 600 Ω 2 mV (LED peak, 1 kHz, 20 mV RMS) 12 unbalanced lines 6.3 mm jack, 47.000 Ω 45 mV (LED peak, 1 kHz, 180 mV RMS) 2 balanced returns, 2 x 6.3 mm jack, 47.000 Ω 300 mV RMS 1 USB/PC, stereo
CONTROLS	Mic/line: bass suppression filter (18 dB/octave, 75 Hz), gain, bass (±15 dB, 80 Hz), mid (±15 dB, 2,500 Hz), treble (±15 dB, 12,000 Hz), aux/EFX send, pan, mute and slide volume control USB recorder/player: mode, play/pause/rec, fast forward and rewind, bass (±15 dB, 80 Hz), treble (±15 dB, 12,000 Hz) and slider volume control Main: sliding volume control Phones: volume control Post-fader aux send: volume control Aux return: volume control DSP effects processor: effect selection, repeat and slider volume control
FUNCTIONS	Sliders per channel 3-band EQ on channels 1 to 12 2-band EQ on USB recorder/player Over signal and master output level indicator lights
OUTPUTS	1 stereo main (2 x XLR or 2 x 6.3 mm jack), 5 V RMS 1 stereo line, 2 x RCA, 5 V RMS 1 post-fader send, 6.3 mm jack, 5 V RMS 1 stereo headphones, 6.3 mm jack 1 USB/PC, stereo
PHANTOM	48 V, selectable
RESPONSE	20-20,000 Hz
DISTORTION	Harmonic: 0.07 %
S/N RATIO	> 65 dB
POWER SUPPLY	100-240 V AC, 20 W maximum
DIMENSIONS	500 x 85 x 320 mm depth
WEIGHT	4.7 kg

AUXILIARY EQUIPMENT

AUDIO PROCESSORS

Speaker processor 4 inputs and 8 outputs.

Digital signal processor designed to process and adapt the audio signal to the features of the sound system speakers. Processes the input signal providing a separate signal on each output.

It incorporates EQ, frequency divider, gain control, limiter, delay and mute functions.



PDA-1408

FEATURES	<p>Digital signal processor. Speaker processor 4 inputs and 8 outputs. Matrix control of inputs and outputs. DSP functions. Gain. Noise gate and expander. Parametric equalizers. Time delay. Band pass filter. Frequency divider (crossover). Compressor/limiter. Power mode selection. Front panel lock. Sampling frequency 48 kHz. 24 bits Ethernet port for connection to PC. PC software.</p>
INPUTS	<p>4 balanced lines, 10,000 Ω 10 V maximum 1 RC-Net port to interconnect with other devices using RC-Net, RJ-45 1 LAN port to connect to local area network or PC, RJ-45</p>
OUTPUTS	<p>8 balanced lines, XLR, 150 Ω 10 V maximum 1 extension link RC-Net port, RJ-45 1 RS-232 port for PC connection, RJ-45</p>
INPUT AND OUTPUT PROCESSING	<p>Gain control 5-Band parametric equalizer High and low pass filter Delay Phase Compressor/Limiter Mute</p>
CONTROLS	<p>PC control software. TCP/IP and RS-232 protocol for integration with other systems</p>
RESPONSE	20-20,000 Hz \pm 1.5 dB
S/N RATIO	108 dB
DISTORTION	Harmonic: < 0.01% at 1 kHz (0 dBu)
POWER SUPPLY	100-240 V AC, 40 W
DIMENSIONS	483 x 44 x 259 mm depth. 1 U rack 19"
WEIGHT	3.4 kg

Audio splitter 10 mono outputs and 5 stereo outputs. Distributes the audio signal to sound systems, press distributors, etc.



FDT-112

FEATURES	Audio splitter with 1 mono input to 10 mono outputs or 1 stereo input to 5 stereo outputs. Input level indicator lights.
INPUTS	2 balanced lines, combo (XLR and 6.3 mm stereo jack) 15,000 Ω 775 mV
OUTPUTS	10 balanced line, XLR 600 Ω 775 mV 2 balanced line link output, XLR 600 Ω 775 mV
CONTROLS	Volume per output Operating mode selector: mono, stereo GND lift ground disconnection
RESPONSE	20-20,000 Hz
DISTORTION	Harmonic: < 0.05%
S/N RATIO	> 90 dB
POWER SUPPLY	230-115 V AC, 10 W max
DIMENSIONS	482 x 44.5 x 220 mm depth. 1 U rack 19"
WEIGHT	2.6 kg

Audio splitter 10 front outputs with independent volume control on each output. Special for press rooms.



FDT-110F

FEATURES	Audio splitter 1 mono input to 10 mono front outputs. Independent volume control of each output. Special for press rooms.
INPUTS	1 balanced line, XLR 215 mV RMS 1 balanced line, XLR 215 mV RMS with 30 cm cable
OUTPUTS	10 balanced lines, XLR 1 V RMS maximum
CONTROLS	Volume per output LED power on indicator
RESPONSE	20-20,000 Hz
DISTORTION	Harmonic: < 0.2 %
S/N RATIO	> 95 dB
POWER SUPPLY	230/115 V AC, 184 W
DIMENSIONS	483 x 88 x 85 mm depth. 2 U rack 19"
WEIGHT	3.1 kg

AUXILIARY EQUIPMENT ACCESSORIES

Ground isolating noise filter for stereo line. It eliminates noise and humming generated by interference and ground loops that occur when different audio devices are interconnected.

FAM-80

FEATURES	Ground isolating noise filter for stereo line. Eliminates noises and buzzing.
INPUTS	1 stereo auxiliary line, 2 x RCA
OUTPUTS	1 stereo auxiliary line, 2 x RCA
RESPONSE	20-20,000 Hz
DIMENSIONS	42 x 31 x 67 mm depth
WEIGHT	0.1 kg



HIGH POWER SPEAKERS SB

Speakers with extra-resistant plastic injection-moulded case. Special for portable sound systems, easy transport. Different boxes, components, powers and sound for all occasions.

SB-3608

FEATURES	Loudspeaker with ultra-resistant PP injection-moulded case. Woofer protected by front metal grille. Monitor-shaped, carrying handles, suspension points and floor stands. Hole in the base for 35 mm tube
POWER	200 W max., 100 W RMS
SPEAKERS	1 x 8" woofer 1 compression driver: 1 3/8" diaphragm
RESPONSE	60-18,000 Hz
IMPEDANCE	8 Ω
SENSITIVITY	96 dB at 1 W/1 m
CONNECTORS	2 x 4-contact loudspeaker connectors (1+, 1-)
INDICATOR LIGHTS	Operation indicators on the front panel
CROSSOVER	2 ways Crossover frequency at 2.500 Hz
SUSPENSION POINTS	4 M8 points
SOUND PRESSURE	119 dB max power at 1 m
DIMENSIONS	260 x 420 x 230 mm depth
WEIGHT	6 kg





SB-3612

SB-3615

FEATURES

Loudspeaker with ultra-resistant PP injection-moulded case.
 Woofer protected by front metal grille.
 Monitor-shaped, carrying handles, suspension points and floor stands.
 Hole in the base for 35 mm tube.

POWER	300 W max., 150 W RMS	360 W max., 180 W RMS
SPEAKERS	1 x 12" woofer: 50 mm coil and ferrite magnet 1 compression driver: 1 3/8" diaphragm	1 x 15" woofer: 63.5 mm coil and ferrite magnet 1 compression driver: 1 3/8" diaphragm
RESPONSE	55-18,000 Hz	42-18,000 Hz
IMPEDANCE	8 Ω	8 Ω
SENSITIVITY	97 dB at 1 W/1 m	98 dB at 1 W/1 m
CONNECTORS	2 x 4-contact loudspeaker connectors (1+, 1-)	2 x 4-contact loudspeaker connectors (1+, 1-)
INDICATOR LIGHTS	Operation indicators on the front panel	Operation indicators on the front panel
CROSSOVER	2 ways Crossover frequency at 2.500 Hz	2 ways Crossover frequency at 2.500 Hz
SUSPENSION POINTS	6 M8 points	4 M8 points
SOUND PRESSURE	128 dB max power at 1 m	129 dB max power at 1 m
DIMENSIONS	375 x 585 x 330 mm depth	460 x 685 x 380 mm depth
WEIGHT	13.7 kg	17.3 kg

HIGH POWER SPEAKERS

FORCE

High power speaker.

Heavy duty injection-moulded case and high quality components.

Powerful sound with great nuances.



FORCE-8 **N!**

High power speaker.
Injection-moulded case.
Textured paint finish.
Carrying handles.
Suspension points.
Hole in the base for 35 mm tube.

FORCE-12 **N!**

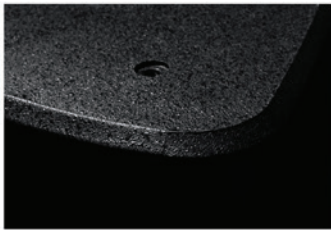
High power speaker.
Injection-moulded case.
Textured paint finish.
Carrying handles and suspension points.
Hole in the base for 35 mm tube.

FORCE-15 **N!**

High power speaker.
Injection-moulded case.
Textured paint finish.
Carrying handles and suspension points.
Hole in the base for 35 mm tube.

FEATURES	FORCE-8	FORCE-12	FORCE-15
POWER	600 W peak, 200 W RMS	800 W peak, 300 W RMS	1,000 W peak, 350 W RMS
SPEAKERS	1 x 8" woofer: 50 mm coil and 134 mm ferrite magnet 1 x 1" compressor driver: 25 mm coil and 80 mm magnet	1 x 12" woofer: 65 mm coil and 156 mm ferrite magnet 1 x 1 1/3" compressor driver: 34 mm coil and 90 mm magnet	1 x 15" woofer: 76.2 mm coil and 175 mm ferrite magnet 1 x 1 3/4" compressor driver: 44 mm coil and 115 mm magnet
RESPONSE	65-18,000 Hz	55-20,000 Hz	40-20,000 Hz
IMPEDANCE	8 Ω	8 Ω	8 Ω
SENSITIVITY	95 dB at 1 W/1 m	97 dB at 1 W/1 m	98 dB at 1 W/1 m
SOUND PRESSURE	120 dB max power at 1 m	123 dB max power at 1 m	126 dB max power at 1 m
COVERAGE ANGLE	90° H x 90° V	90° H x 90° V	90° H x 90° V
CONNECTORS	2 x 4-contact loudspeaker connectors (1+, 1-)	2 x 4-contact loudspeaker connectors (1+, 1-)	2 x 4-contact loudspeaker connectors (1+, 1-)
CROSSOVER	Passive, 2-way Crossover frequency 2,500 Hz, -9 dB/octave	Passive, 2-way Crossover frequency 2,500 Hz, -9 dB/octave	Passive, 2-way Crossover frequency 2,500 Hz, -9 dB/octave
SUSPENSION POINTS	4 M8 points	5 M8 points	5 M8 points
COLOUR	Black	Black	Black
DIMENSIONS	290 x 470 x 260 mm depth	380 x 595 x 370 mm depth	455 x 695 x 390 mm depth
WEIGHT	11.3 kg	17.95 kg	24.85 kg

THE FORCE OF SOUND



HIGH POWER SPEAKERS

FPRO

High power speakers and subwoofer, made of wood with high quality components. Great sound definition and reinforced bass response.



FPRO-1008
FPRO-15010

FPRO-18012

	FPRO-1008	FPRO-15010	FPRO-18012
FEATURES	Loudspeaker in reinforced DM wood. Textured paint finish. Protective front metal grille. Suspension points. Hole in the base for 35 mm tube.	Loudspeaker in reinforced DM wood. Textured paint finish. Protective front metal grille. Suspension points. Hole in the base for 35 mm tube.	Loudspeaker in reinforced DM wood. Textured paint finish. Protective front metal grille. Suspension points. Hole in the base for 35 mm tube.
POWER	200 W max., 100 W RMS	300 W max., 150 W RMS	360 W max., 180 W RMS
SPEAKERS	1 x 8": 35 mm coil and 100 mm ferrite magnet 1 compression driver: 1" diaphragm, 1" mouth and 25.4 mm coil	1 x 10": 50 mm coil and 120 mm ferrite magnet 1 compression driver: 1" diaphragm, 1" mouth and 25.4 mm coil	1 x 12": 65 mm coil and 120 mm ferrite magnet 1 compression driver: 1" diaphragm, 1" mouth and 25.4 mm coil
RESPONSE	70-20,000 Hz (± 3 dB)	65-20,000 Hz (± 3 dB)	60-20,000 Hz (± 3 dB)
IMPEDANCE	8 Ω	8 Ω	8 Ω
SENSITIVITY	92 dB at 1 W/1 m	96 dB at 1 W/1 m	98 dB at 1 W/1 m
SOUND PRESSURE	120 dB max power at 1 m	122 dB max power at 1 m	125 dB max power at 1 m
COVERAGE ANGLE	90° H x 60° V (-6 dB)	90° H x 60° V (-6 dB)	90° H x 60° V (-6 dB)
CONNECTORS	2 x 4-contact loudspeaker connectors (1+/2+, 1-/2-)	2 x 4-contact loudspeaker connectors (1+/2+, 1-/2-)	2 x 4-contact loudspeaker connectors (1+/2+, 1-/2-)
CROSSOVER	Passive, 2 way, cut-off frequency 1,900 Hz, -6 dB/octave	Passive, 2 way, cut-off frequency 1,800 Hz, -6 dB/octave	Passive, 2 way, cut-off frequency 1,750 Hz, -6 dB/octave
SUSPENSION POINTS	14 M8 points	14 M8 points	14 M8 points
COLOUR	Black	Black	Black
DIMENSIONS	240 x 410 x 270 mm depth	290 x 455 x 320 mm depth	340 x 550 x 370 mm depth
WEIGHT	7.1 kg	9.6 kg	13.2 kg



	FPRO-25015	FPRO-60030	FPRO-SUB25015
FEATURES	Loudspeaker in reinforced DM wood. Textured paint finish. Protective front metal grille. Carrying handles. Floor stands. Suspension points. Hole in the base for 35 mm tube.	Loudspeaker in reinforced DM wood. Textured paint finish. Protective front metal grille. Suspension points.	Subwoofer in reinforced wood. Textured paint finish. Protective front metal grille. Carrying handles. Hole in the top for 35 mm tube. Floor stands.
POWER	500 W max., 250 W RMS	1,200 W max., 600 W RMS	500 W max., 250 W RMS
SPEAKERS	1 x 15": 65 mm coil and 140 mm ferrite magnet 1 compression driver: 1" diaphragm, 1" mouth and 25.4 mm coil	2 x 15": 65 mm coil and 140 mm ferrite magnet 1 compression driver: 1"34" titanium diaphragm, 1" mouth and 34 mm coil	1 x 15": 65 mm coil and 170 mm ferrite magnet
RESPONSE	55-20,000 Hz (± 3 dB)	70-20,000 Hz (± 3 dB)	40-250 Hz (± 3 dB)
IMPEDANCE	8 Ω	4 Ω	8 Ω
SENSITIVITY	100 dB at 1 W/1 m	104 dB at 1 W/1 m	95 dB at 1 W/1 m
SOUND PRESSURE	129 dB max power at 1 m	133 dB max power at 1 m	123 dB max power at 1 m
COVERAGE ANGLE	90° H x 60° V (-6 dB)	90° H x 60° V (-6 dB)	-
CONNECTORS	2 x 4-contact loudspeaker connectors (1+/ 2 +, 1-/2-)	2 x 4-contact loudspeaker connectors (1+/ 2 +, 1-/2-)	2 x 4-contact loudspeaker connectors (1+/ 2 +, 1-/2-)
CROSSOVER	Passive, 2 way, cut-off frequency 1,700 Hz, -6 dB/octave	Passive, 2 way, cut-off frequency 1,700 Hz, -6 dB/octave	-
SUSPENSION POINTS	14 M8 points	14 M8 points	-
COLOUR	Black	Black	Black
DIMENSIONS	430 x 690 x 470 mm depth	430 x 1,080 x 470 mm depth	480 x 450 x 550 mm depth
WEIGHT	23.2 kg	35.5 kg	23.5 kg

HIGH POWER SPEAKERS

FPRO

High power loudspeaker, manufactured in wood with high quality components and wide frequency response.



FPRO-505

FEATURES

Loudspeaker in reinforced DM wood.
Textured paint finish.
Protective front metal grille.
Suspension points.

POWER	100 W max., 50 W RMS	150 W max., 75 W RMS
SPEAKERS	1 x 5 1/4" woofer: 25 mm coil and 80 mm ferrite magnet 1 x 3" tweeter, double magnet	1 x 6 1/2" woofer: 25 mm coil and 100 mm ferrite magnet 1 x 3" tweeter, double magnet
RESPONSE	100-20,000 Hz (± 3 dB)	95-20,000 Hz (± 3 dB)
IMPEDANCE	8 Ω	8 Ω
SENSITIVITY	89 dB at 1 W/1 m	92 dB at 1 W/1 m
SOUND PRESSURE	105 dB max power at 1 m	115 dB max power at 1 m
COVERAGE ANGLE	120° (-6 dB)	90° H x 90° V (-6 dB)
CONNECTORS	Push terminals	Push terminals
CROSSOVER	2 way, cut-off frequency 3.5 kHz, -6 dB/octave	High-pass filter, 3 kHz, -12 dB/octave
SUSPENSION POINTS	6 M8 points	4 M8 points
COLOUR	Black	Black
DIMENSIONS	170 x 280 x 180 mm depth	200 x 335 x 210 mm depth
WEIGHT	3 kg	4 kg
ACCESSORIES	Wall Mount	-

FPRO-756

Loudspeaker in reinforced DM wood.
Textured paint finish.
Protective front metal grille.
Suspension points.

HIGH POWER SPEAKERS

ACCESSORIES

Accessories for the installation of loudspeakers with suspension points.
Suitable for the PRO series and similar.



CCM-8

FEATURES	Zinc-plated eyebolt.
BREAKING LOAD	85 kg
DIMENSIONS	M8 x 60 mm



CCM-10

FEATURES	Zinc-plated eyebolt.
BREAKING LOAD	150 kg
DIMENSIONS	M10 x 24 mm



MSQ-70



MSQ-80

FEATURES	Zinc-plated carabiner with lock.	Zinc-plated carabiner with lock.
BREAKING LOAD	120 kg	150 kg
DIMENSIONS	7 x 70 mm	8 x 80 mm



ECA-3

ECA-4

FEATURES	Stainless steel safety rope with thimbles.	Stainless steel safety rope with thimbles.
PAYLOAD	85 kg	150 kg
BREAKING LOAD	433 kg	765 kg

HIGH POWER AMPLIFIED LOUDSPEAKERS

ASB

Amplified speakers with ultra-resistant PP injection-moulded case. Bluetooth receiver and USB/SD/MP3/BT player with remote control.. Line and mic inputs, and output to power another passive speaker.



ASB-880U

ASB-10120U

FEATURES	<p>Active loudspeaker with extra resistant injection-moulded case. USB/SD/MP3 player with remote control. Output for passive loudspeaker. Woofer protected by front metal grille. Monitor-shaped, carrying handles, suspension points and floor stands. Hole in the base for 35 mm tube.</p>	<p>Active loudspeaker with extra resistant PP injection-moulded case. USB/SD/MP3 player with remote control. Output for passive loudspeaker. Woofer protected by front metal grille. Monitor-shaped, carrying handles, suspension points and floor stands. Hole in the base for 35 mm tube.</p>
AMPLIFIER	<p>160 W max., 80 W RMS Bass: 100 W max., 50 W RMS Treble: 60 W max., 30 W RMS</p>	<p>200 W max., 100 W RMS Bass: 120 W max., 60 W RMS Treble: 80 W max., 40 W RMS</p>
PROTECTIONS	3 protection circuits: short circuit, overload and temperature	3 protection circuits: short circuit, overload and temperature
SPEAKERS	<p>1 x 8" woofer 1 compression driver: 1 3/8" diaphragm</p>	<p>1 x 10" woofer 1 compression driver: 1 3/8" diaphragm</p>
RESPONSE	60-18,000 Hz	55-18,000 Hz
INPUTS	<p>1 balanced mic., XLR and 6.3 mm jack 1 aux line, XLR and 2 x RCA</p>	<p>1 balanced mic., XLR and 6.3 mm jack 1 aux line, XLR and 2 x RCA</p>
OUTPUTS	<p>1 balanced line, 6.3 mm jack 1 amplified for passive speaker, 8 Ω speaker connector</p>	<p>1 balanced line, 6.3 mm jack 1 amplified for passive speaker, 8 Ω speaker connector</p>
INDICATOR LIGHTS	Operation on the front and power and peak indicators on the rear panel	Operation on the front and power and peak indicators on the rear panel
CONTROLS	<p>Input volume and master volume Player control Bass and treble control</p>	<p>Input volume and master volume USB/SD/MP3 player control Bass and treble control</p>
SUSPENSION POINTS	4 M8 points	4 M8 points
POWER SUPPLY	<p>230 V AC, 120 W 115 V AC on request</p>	230/115 V AC, 200 W
DIMENSIONS	260 x 420 x 230 mm depth	320 x 515 x 270 mm depth
WEIGHT	7.2 kg	9.7 kg



ASB-12150U

ASB-15180U

FEATURES

Active loudspeaker with extra resistant injection-moulded case. USB/SD/MP3 player and FM tuner with remote control. Output for passive baffle. Woofer protected by front metal grille. Monitor-shaped, carrying handles, suspension points and floor stands. Hole in the base for 35 mm tube.

Active loudspeaker with extra resistant PP injection-moulded case. USB/SD/MP3 player and FM tuner with remote control. Output for passive loudspeaker. Woofer protected by front metal grille. Monitor-shaped, carrying handles, suspension points and floor stands. Hole in the base for 35 mm tube.

AMPLIFIER	360 W max., 180 W RMS Bass: 300 W max., 150 W RMS Treble: 60 W max., 30 W RMS	440 W max., 220 W RMS Bass: 380 W max., 190 W RMS Treble: 60 W max., 30 W RMS
PROTECTIONS	3 protection circuits: short circuit, overload and temperature	3 protection circuits: short circuit, overload and temperature
SPEAKERS	1 x 12" woofer: 50 mm coil and ferrite magnet 1 compression driver: 1 3/8" diaphragm	1 x 15" woofer: 63.5 mm coil and ferrite magnet 1 compression driver: 1 3/8" diaphragm
RESPONSE	50-18,000 Hz	42-18,000 Hz
INPUTS	3 balanced mic, XLR 1 balanced mic., combo (XLR and 6.3 mm jack) 1 aux line, 2 x RCA	3 balanced mic, XLR 1 balanced mic., combo (XLR and 6.3 mm jack) 1 aux line, 2 x RCA
OUTPUTS	1 aux line, 2 x RCA 1 amplified for passive speaker, 8 Ω speaker connector	1 aux line, 2 x RCA 1 amplified for passive speaker, 8 Ω speaker connector
INDICATOR LIGHTS	Operation on the front and power and peak indicators on the rear panel	Operation on the front and power and peak indicators on the rear panel
CONTROLS	Input volume and master volume Input selector: line/MP3 Player control Effects: delay and echo 5-band graphic equaliser.	Input volume and master volume Input selector: line/MP3 Player control Effects: delay and echo 5-band graphic equaliser.
SUSPENSION POINTS	4 M8 points	4 M8 points
POWER SUPPLY	230/115 V AC, 250 W	230/115 V AC, 350 W
DIMENSIONS	375 x 585 x 330 mm depth	460 x 685 x 380 mm depth
WEIGHT	16 kg	19.95 kg

HIGH POWER AMPLIFIED LOUDSPEAKERS

FORCE DSP

High power active loudspeaker with DSP. High quality.



DSP

FORCE-12DSP

FEATURES

High power active loudspeaker.
DSP processor.
Highly resistant case with textured paint finish.
Carrying handles and suspension points.
Hole in the base for 35 mm tube.

AMPLIFIER 800 W peak, 600 W maximum, 300 W RMS Class D

PROTECTIONS Temperature, short circuit and overload

SPEAKERS 1 x 12" woofer: 65 mm coil and 156 mm ferrite magnet
1 x 1" compressor driver: 34 mm coil and 90 mm magnet

RESPONSE 55-20,000 Hz

INPUTS 2 balanced mic./line, combo XLR and 6.3 mm jack combo

OUTPUTS 1 balanced line, XLR

SENSITIVITY 97 dB at 1 W/1 m

SOUND PRESSURE 123 dB max power at 1 m

COVERAGE ANGLE 90° H x 90° V

SUSPENSION POINTS 5 M8 points

COLOUR Black

POWER SUPPLY 115/230 V AC, 250 W

DIMENSIONS 375 x 590 x 355 mm depth

WEIGHT 18.5 kg

DSP

FORCE-15DSP

High power active loudspeaker.
DSP processor.
Highly resistant case with textured paint finish.
Carrying handles and suspension points.
Hole in the base for 35 mm tube.

AMPLIFIER 1,000 W peak, 700 W maximum, 350 W RMS Class D

PROTECTIONS Temperature, short circuit and overload

SPEAKERS 1 x 15" woofer: 75 mm coil and 170 mm ferrite magnet
1 x 1 3/4" compressor driver: 44 mm coil and 115 mm magnet

RESPONSE 40-20,000 Hz

INPUTS 2 balanced mic./line, combo XLR and 6.3 mm jack combo

OUTPUTS 1 balanced line, XLR

SENSITIVITY 98 dB at 1 W/1 m

SOUND PRESSURE 126 dB max power at 1 m

COVERAGE ANGLE 90° H x 90° V

SUSPENSION POINTS 5 M8 points

COLOUR Black

POWER SUPPLY 115-230 V AC, 400 W

DIMENSIONS 455 x 695 x 390 mm depth

WEIGHT 25.5 kg

HIGH POWER AMPLIFIED LOUDSPEAKERS

FONESTAR

FPRO

High power amplified speakers and subwoofer, wooden box.
Excellent sound quality.



FPRO-28012A

FPRO-38015A

FEATURES	Autoamplified loudspeaker in DM wood. Textured paint finish. Protective front metal grille. Carrying handles and suspension points. Hole in the base for 35 mm tube.	Autoamplified loudspeaker in DM wood. Textured paint finish. Protective front metal grille. Carrying handles and suspension points. Hole in the base for 35 mm tube.
AMPLIFIER	400 W max., 200 W RMS	700 W max., 350 W RMS
PROTECTIONS	Temperature, overload and overcurrent	Temperature, overload and overcurrent
SPEAKERS	1 x 12" woofer: coil 50 mm and ferrite magnet 120 mm 1 compression driver: 1" diaphragm, coil 25.4 mm and ferrite magnet	1 x 15" woofer: coil 65 mm and ferrite magnet 140 mm 1 compression driver: 1" diaphragm, coil 25.4 mm and ferrite magnet
RESPONSE	60-20,000 Hz \pm 3 dB	55-20,000 Hz \pm 3 dB
INPUTS	1 balanced line, XLR 1.5 V 1 balanced mic, 6.3 mm jack	1 balanced line, XLR 1.5 V 1 balanced mic, 6.3 mm jack
OUTPUTS	1 balanced line, XLR	1 balanced line, XLR
INDICATOR LIGHTS	Power, signal/limiter and protection	Power, signal/limiter and protection
CROSSOVER	Active, 2-way Crossover frequency at 2.000 Hz	Active, 2-way Crossover frequency at 2.000 Hz
COVERAGE ANGLE	Diffuser: 90° H x 60° V	Diffuser: 90° H x 60° V
CONTROLS	Master volume Micro volume Tones: bass and treble	Master volume Microphone volume Tone: bass and treble
SUSPENSION POINTS	14 M8 points	14 M8 points
COLOUR	Black	Black
POWER SUPPLY	230/115 V AC, 650 W	230/115 V AC, 850 W
DIMENSIONS	340 x 550 x 370 mm depth	430 x 680 x 470 mm depth
WEIGHT	18.2 kg	26.1 kg

LOUDSPEAKERS

AMBIENT

Pair of autoamplified loudspeakers. Specially designed for public address and environmental sound applications. High power and resistant, excellent finish in a small size.



AMBIENT-20A AMBIENT-20BA

CLASS-D

AMBIENT-BT20A

CLASS-D

FEATURES	Pair of autoamplified loudspeakers. Both active loudspeakers with amplifier. Highly efficient class-D amplifier. Shielded magnet loudspeaker. Bass reflex reinforcement system.	Pair of autoamplified loudspeakers. Composed of one active loudspeaker with amplifier and another passive loudspeaker. Highly efficient class-D amplifier. Shielded magnet loudspeaker. Bass reflex reinforcement system.
POWER	40 W max., 20 W RMS Class-D amplifier. Protection compressor/limiter	2 x 10 W RMS Class-D amplifier. Protection circuit
SPEAKERS	1 x 3" polypropylene woofer, 20.4 mm coil with shielded magnet	1 x 3" polypropylene woofer, 20.4 mm coil with shielded magnet
RESPONSE	132-20,000 Hz	150 - 20,000 Hz
INPUTS	1 aux line, 2 x RCA 775 mV 1 balanced line, 6.3 mm jack 775 mV	1 aux line, 2 x RCA 775 mV
OUTPUTS	1 balanced line, 6.3 mm jack	Loudspeaker: 6.3 mm jack
INDICATOR LIGHTS	Operation	Operation and bluetooth indicator lights
CONTROLS	On/off and volume	On/off, volume and bluetooth button
COLOUR	Black (RAL 9017) White (RAL 9010)	Black (RAL 9017) White (RAL 9010)
MATERIAL	-	Steel grille and ABS casing
POWER SUPPLY	230 V AC, 40 W, 115 V AC upon request	230 V AC, 60 W
DIMENSIONS	115 x 175 x 107 mm depth	115 x 175 x 107 mm depth
WEIGHT	2 x 1.3 kg	Active speaker: 1.3 kg Passive speaker: 0.8 kg

SPEAKERS

CUBE

Low impedance speaker pair Great sound quality in a small size.



CUBE-62

CUBE-62B

FEATURES	Pair of loudspeakers.	Pair of loudspeakers.
POWER	25 W max., 12 W RMS	25 W max., 12 W RMS
SPEAKERS	2 1/2"	2 1/2"
RESPONSE	150-20,000 Hz	150-20,000 Hz
IMPEDANCE	8 Ω	8 Ω
SENSITIVITY	88 dB at 1 W/1 m	88 dB at 1 W/1 m
CONNECTORS	Push terminals	Push terminals
COLOUR	Black (RAL 9017)	White (RAL 9003)
DIMENSIONS	89 x 89 x 110 mm depth	89 x 89 x 110 mm depth
WEIGHT	2 x 0.5 kg	2 x 0.5 kg
ACCESSORIES	Adjustable fixing mounts	Adjustable fixing mounts

LOUDSPEAKERS SONORA

Low-impedance loudspeakers. Excellent sound quality.

FONESTAR



SONORA-4N **N!**
SONORA-4B

Low-impedance loudspeaker.
Prepared for outdoor use, with IP-66 protection.



SONORA-5B **N!**
SONORA-5B16
SONORA-5N
SONORA-5N16

Low-impedance loudspeaker.
Prepared for outdoor use, with IP-66 protection.



SONORA-6N **N!**
SONORA-6B

Low-impedance loudspeaker.
Prepared for outdoor use, with IP-66 protection.

FEATURES	Low-impedance loudspeaker. Prepared for outdoor use, with IP-66 protection.	Low-impedance loudspeaker. Prepared for outdoor use, with IP-66 protection.	Low-impedance loudspeaker. Prepared for outdoor use, with IP-66 protection.
POWER	30 W RMS	40 W RMS	60 W RMS
SPEAKERS	1 x polypropylene 4" woofer 1 x 1/2" tweeter	1 x 5 1/4" polypropylene woofer 1 x 1" tweeter	
RESPONSE	120-20,000 Hz	80-20,000 Hz	75-20,000 Hz
IMPEDANCE	8 Ω	8 Ω 16 Ω	8 Ω
SENSITIVITY	84 dB at 1 W/1 m	86 dB at 1 W/1 m	86 dB at 1 W/1 m
PROTECTIONS	IP-66 IEC 60068-2-11 Environmental testing (salt mist)	IP-66 IEC 60068-2-11 Environmental testing (salt mist)	IP-66 IEC 60068-2-11 Environmental testing (salt mist)
MATERIAL	Aluminium grille Weatherproofed mount. Stainless steel screws	Aluminium grille Weatherproofed mount. Stainless steel screws	Aluminium grille Weatherproofed mount. Stainless steel screws
CONNECTORS	Euroblock	Euroblock	Euroblock
COLOUR	Black (RAL 9004) White (RAL 9003)	Black (RAL 9004) White (RAL 9003)	Black (RAL 9004) White (RAL 9003)
DIMENSIONS	125 x 202 x 125 mm depth	162 x 262 x 147 mm depth	199 x 322 x 281 mm depth
WEIGHT	1.4 kg	1.7 kg	2.5 kg
ACCESSORIES	Full motion fixing mount ± 60° in all directions Steel safety cable	Full motion fixing mount ± 60° in all directions Steel safety cable	Full motion fixing mount ± 60° in all directions Steel safety cable

LOUDSPEAKERS SONORA ACTIVE

Active loudspeaker.



SONORA-5AB SONORA-5AN

FEATURES	Active loudspeaker. Class D amplifier with passive speaker output. Great sound quality, clear sound and distortion-free. Tone and volume controls. Mono/stereo selector. Automatic standby function.	
AMPLIFIER	25 + 25 W RMS	
LOUDSPEAKERS	1 x 5 ¼" polypropylene woofer 1 x 1" tweeter	
RESPONSE	80-20,000 Hz	
INPUTS	1 stereo aux, 3.5 mm jack (unbalanced) or euroblock (balanced)	
OUTPUTS	1 passive loudspeaker, 8 Ω, euroblock	
CONTROLS	Volume Tone: Bass and treble Mono/stereo selector	
MATERIAL	Aluminium grille Stainless steel screws	
COLOUR	White (RAL 9003)	Black (RAL 9004)
POWER SUPPLY	230 V AC, 60 W 115 V AC on request	
DIMENSIONS	162 x 262 x 147 mm depth	
WEIGHT	1.9 kg	
ACCESSORIES	Full motion fixing mount ± 60° in all directions Steel safety cable	



LOUDSPEAKERS SONORA ACTIVE

Active Wi-Fi surface speaker

FONESTAR



SONORA-5AWB **NI**

SONORA-5AWN **NI**

FEATURES	
FEATURES	<p>Wi-Fi active speaker with player. App for control from smartphones and tablets, WIIM and compatible devices. Wi-Fi playback of playlists, online music services and internet radio. Multiroom function (speakers need to connect via Wi-Fi to the main speaker. They have to be within its range) USB player and aux input. Class D amplifier Passive speaker output. Great sound quality, clear and distortion-free. Tone and volume controls. Mono/stereo selector. Automatic standby function.</p>
POWER	25 + 25 W RMS
LOUDSPEAKERS	1 x 5 ¼" polypropylene woofer 1 x 1" tweeter
RESPONSE	80- 20,000 Hz
INPUT	1 stereo aux, 3.5 mm jack, 750 mV RMS 1 x RJ-45 Ethernet (secondary data connection, always needs Wi-Fi connection for app control)
OUTPUTS	1 passive loudspeaker, 8 Ω, euroblock
CONTROLS	Volume Tone: bass and treble Mono/stereo selector USB playback
MATERIAL	Aluminium grille Stainless steel screws
TEMPERATURE RANGE	- 10°C to 60°C
COLOUR	White (RAL 9003)
POWER SUPPLY	230 V AC, 60 W 115 V AC upon request
DIMENSIONS	162 x 262 x 147 mm depth
WEIGHT	2.75 kg
ACCESSORIES	Full motion adjustable fixing mount ± 60° Steel safety cable
ACCESSORIES	Full motion fixing mount ± 60° in all directions Steel safety cable

FEATURES	
FEATURES	<p>Wi-Fi active speaker with player. App for control from smartphones and tablets, WIIM and compatible devices. Wi-Fi playback of playlists, online music services and internet radio. Multiroom function (speakers need to connect via Wi-Fi to the main speaker. They have to be within its range) USB player and aux input. Class D amplifier Passive speaker output. Great sound quality, clear and distortion-free. Tone and volume controls. Mono/stereo selector. Automatic standby function.</p>
POWER	25 + 25 W RMS
LOUDSPEAKERS	1 x 5 ¼" polypropylene woofer 1 x 1" tweeter
RESPONSE	80- 20,000 Hz
INPUT	1 stereo aux, 3.5 mm jack, 750 mV RMS 1 x RJ-45 Ethernet (secondary data connection, always needs Wi-Fi connection for app control)
OUTPUTS	1 passive loudspeaker, 8 Ω, euroblock
CONTROLS	Volume Tone: bass and treble Mono/stereo selector USB playback
MATERIAL	Aluminium grille Stainless steel screws
TEMPERATURE RANGE	- 10°C to 60°C
COLOUR	Black (RAL 9004)
POWER SUPPLY	230 V AC, 60 W 115 V AC upon request
DIMENSIONS	162 x 262 x 147 mm depth
WEIGHT	2.75 kg
ACCESSORIES	Full motion adjustable fixing mount ± 60° Steel safety cable
ACCESSORIES	Full motion fixing mount ± 60° in all directions Steel safety cable

LOUDSPEAKERS CLASS

Pair of active loudspeakers with bluetooth receiver. Wood construction. Excellent sound quality. 2 auxiliary inputs.



CLASS-220N

FEATURES

Pair of active loudspeakers.
Active loudspeaker with amplifier and passive speaker output.
MDF wood construction.
Wood grain finish.
Remote control.

AMPLIFIER	20 + 20 W RMS	20 + 20 W RMS
LOUDSPEAKERS	1 x 4 1/2" woofer 1 x 2 3/4" tweeter	1 x 4 1/2" woofer 1 x 2 3/4" tweeter
RESPONSE	60-20,000 Hz	60-20,000 Hz
INPUTS	2 aux stereo lines, 2 x RCA 800mV	2 aux stereo lines, 2 x RCA 800mV
OUTPUTS	Speaker: 1 x RCA	Speaker: 1 x RCA
INDICATORS	Power on	Power on
CONTROLS	Volume	Volume
COLOUR	Black	White
POWER SUPPLY	230 V AC, 45 W	230 V AC, 45 W
DIMENSIONS	142 x 256 x 140 mm depth	142 x 256 x 140 mm depth
WEIGHT	Active speaker: 1.7 kg Passive speaker: 1.6 kg	Active speaker: 1.7 kg Passive speaker: 1.6 kg
POWER SUPPLY	Fixing mounts 10 m loudspeaker cable 2 x RCA to 3.5 mm jack cable Power cable	Fixing mounts 10 m loudspeaker cable 2 x RCA to 3.5 mm jack cable Power cable



CLASS-220B

Pair of active loudspeakers.
Active loudspeaker with amplifier and passive speaker output.
MDF wood construction.
Remote control.

MOUNTS HIGH POWER LOUDSPEAKER STANDS

Pair of speaker stands. Built in high resistance aluminium with adjustable height.

RS-503

FEATURES

Speaker stand.
Constructed of ultra resistant steel, black finish.
Upper tube 35 mm.
Screw base with hole for 35 mm tube.

HEIGHT	Adjustable from 120 to 185 cm
MAXIMUM SUPPORTED WEIGHT	35 kg
WEIGHT	1.8 kg



Ø 35 mm Ø 38 mm





RS-505 N!

FEATURES	“Speaker stand. Constructed of ultra resistant steel, black finish. Metal connecting parts. Upper tube 35 mm.”
HEIGHT	Adjustable from 115 to 175 cm
MAXIMUM SUPPORTED WEIGHT	50 kg
WEIGHT	2.9 kg



RS-506 N!

FEATURES	“Speaker stand. Constructed of ultra resistant steel, black finish. Upper tube 35 mm. Screw base with hole for 35 mm tube.”
HEIGHT	Adjustable from 115 to 175 cm
MAXIMUM SUPPORTED WEIGHT	30 kg
WEIGHT	3 kg



RS-505-2

FEATURES	Pair of speaker stands. Constructed of ultra resistant steel, black finish. Metal connecting parts. Upper tube 35 mm.
HEIGHT	Adjustable from 115 to 175 cm
MAXIMUM SUPPORTED WEIGHT	50 kg
WEIGHT	2 x 2.9 kg
ACCESSORIES	Transport case



35 mm —

Stand for placing of a loudspeaker on top of the subwoofer.

RS-560

FEATURES	Stand for installation of a loudspeaker with 35 mm tube hole in the base on top of the subwoofer with 35 mm tube hole.
HEIGHT	Adjustable from 82 to 140 cm
MAXIMUM SUPPORTED WEIGHT	38 kg
WEIGHT	1.4 kg

MOUNTS

HIGH POWER SPEAKER STANDS

Subwoofer stands for speaker



RS-561 **N!**

FEATURES	Stand for installation of a loudspeaker with 35 mm tube hole in the base on top of the subwoofer with 35 mm tube hole.
HEIGHT	Adjustable from 90 to 130 cm
MAXIMUM SUPPORTED WEIGHT	50 kg
WEIGHT	1.2 kg

FPRO-SUB25015

FPRO-15010



Adapting tubes for a 35 mm tube.

	ZA-16	ZA-20
FEATURES	16 mm tube with adapter for a 35 mm tube. Black finish	20 mm tube with adapter for a 35 mm tube. Black finish
DIMENSIONS	170 mm height	170 mm height
WEIGHT	0.3 kg	0.4 kg
COMPATIBILITY	NOMAD-300: 2.1 amplified system	NOMAD-300: 2.1 amplified system



ZA-16
ZA-20

MOUNTS

HIGH POWER LOUDSPEAKERS WALL MOUNTS

Adjustable wall mounts for loudspeakers, sound columns, etc.

SAL-3504 **N!**

FEATURES	Full motion wall mount for loudspeaker with 35 mm tube.
HOLDING BRACKET	Horizontally adjustable 180° Vertical tilt -45°
MAXIMUM SUPPORTED WEIGHT	30 kg
COLOUR	Black
DIMENSIONS	Total: 122 x 250 x 335 mm depth Wall plate: 122 x 250 mm height Speaker attachment with 35mm tube
WEIGHT	1.82 kg



Full motion wall mounts for loudspeakers.



SAL-622N

FEATURES	Pair of full motion wall mounts for loudspeakers.
HOLDING BRACKET	Horizontally adjustable 120° Vertical tilt ± 20°
MAXIMUM SUPPORTED WEIGHT	10 kg
COLOUR	Black
DIMENSIONS	Total: 65 x 151 x 115 mm depth Wall plate: 48 x 115 mm Speaker mount: 65 x 145 mm with 5.25 mm holes with separation between screws of approximately 50 mm
WEIGHT	2 x 0.6 kg
ACCESSORIES	Set of screws for installing on the wall and assembly of the loudspeaker



SAL-604P

FEATURES	Pair of full motion wall mounts for loudspeakers.
HOLDING BRACKET	Steerable and adjustable
MAXIMUM SUPPORTED WEIGHT	4 kg
COLOUR	Silver
DIMENSIONS	Total: 86 x 40 x 76 mm depth Wall plate/speaker mount: 86 x 40 mm, with holes for attaching the loudspeaker using screws
WEIGHT	2 x 0.1 kg
ACCESSORIES	Set of screws for installing on the wall and assembly of the loudspeaker



SAL-612N

FEATURES	Pair of full motion wall mounts for loudspeakers.
HOLDING BRACKET	Full motion 4 installation systems: 1/4" whitworth screw, plate for 2 screws, plate for 1 screw, or hole for hanging
MAXIMUM SUPPORTED WEIGHT	10 kg
COLOUR	Black
DIMENSIONS	Total: 65 x 110 x 90 mm depth Wall plate: 65 x 110 mm Speaker mount: 15 x 83 mm or 25 x 40 mm, with holes for attaching the loudspeaker with screws
WEIGHT	2 x 0.1 kg
ACCESSORIES	Set of screws for installing on the wall and assembly of the loudspeaker



SAL-623N

FEATURES	Pair of full motion wall mounts for loudspeakers.
HOLDING BRACKET	Horizontally adjustable 140° Vertical tilt ± 20°
MAXIMUM SUPPORTED WEIGHT	3.5 kg
COLOUR	Black
DIMENSIONS	Total: 49 x 87 x 64 mm depth Wall plate: 49 x 78 mm Speaker mount: 28 x 60 mm with 5.25 mm holes with separation between screws of approximately 10 mm
WEIGHT	2 x 0.1 kg
ACCESSORIES	Set of screws for installing on the wall and assembly of the loudspeaker

SPEAKER COMPONENTS

WOOFER

Wide range of bass woofer speakers for musical instruments, acoustic baffles, Hi-Fi baffles, etc.



FPW-100

DIAMETER	6 1/2" = 16.5 cm
POWER	100 W max., 50 W RMS
RESPONSE	100-5,500 Hz
IMPEDANCE	8 Ω
SENSITIVITY	90 dB at 1 W/1 m
SOUND PRESSURE	-
MAGNET	20 Oz
MOVING COIL	-
DIMENSIONS	25 mm Ø x 12.5 mm height
WEIGHT	8.2 g



FPW-200

DIAMETER	8" = 20 cm
POWER	200 W max. 100 W RMS
RESPONSE	55-4,000 Hz
IMPEDANCE	8 Ω
SENSITIVITY	91 dB at 1 W/1 m
MAGNET	20 Oz
DIMENSIONS	Total: 202 mm Ø x 90 mm depth Socket: 185 mm Ø x 82 mm depth
WEIGHT	1.3 kg



FPW-350

DIAMETER	12" = 30.5 cm
POWER	350 W max. 175 W RMS
RESPONSE	40-4,000 Hz
IMPEDANCE	8 Ω
SENSITIVITY	93 dB at 1 W/1 m
MAGNET	30 Oz
DIMENSIONS	Total: 305 mm Ø x 132 mm depth Socket: 278 mm Ø x 122 mm depth
WEIGHT	2.9 kg



UT-336

DIAMETER	3" = 7.5 cm
POWER	12 W max., 8 W RMS
RESPONSE	120-14,000 Hz
IMPEDANCE	8 Ω
SENSITIVITY	89 dB at 1 W/1 m
SOUND PRESSURE	97 dB max power at 1 m
MAGNET	3.6 Oz
DIMENSIONS	Total: 79 x 79 x 43 mm depth Socket: 78 mm Ø x 39 mm depth
WEIGHT	0.28 kg



UT-410

DIAMETER	4" = 10 cm
POWER	30 W max., 20 W RMS
RESPONSE	60-12,000 Hz
IMPEDANCE	8 Ω
SENSITIVITY	89 dB at 1 W/1 m
SOUND PRESSURE	107 dB max power at 1 m
MAGNET	10 Oz
DIMENSIONS	Total: 105 x 105 x 60 mm depth Socket: 103 mm Ø x 56 mm depth
WEIGHT	0.7 kg

SPEAKER COMPONENTS

MID AND TREBLE

Different versions and power ratings for trumpets, mid and treble speakers.

H-2121

POWER	80 W max., 40 W RMS
RESPONSE	800-20,000 Hz
IMPEDANCE	8 Ω
SENSITIVITY	105 dB at 1 W/1 m
SOUND PRESSURE	121 dB max power at 1 m
DIAPHRAGM	Titanium diaphragm
THREAD	Standard 1 3/8" thread.
REINFORCEMENT	Reinforced plastic
THREAD	Standard 1 3/8" thread.
DIMENSIONS	Total: 218 x 218 x 202 mm depth Socket: 185 x 185 x 195 mm depth
WEIGHT	1.7 kg



SPEAKER COMPONENTS

TWEETER

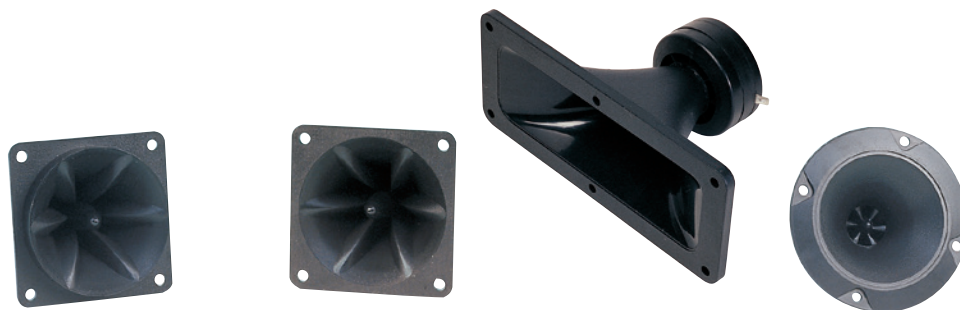
Speakers for treble.

FONESTAR



	HT-351F	HT-3M
POWER	30 W max., 15 W RMS	30 W max., 15 W RMS
LOUDSPEAKERS	-	-
RESPONSE	2,000-20,000 Hz	3,000-20,000 Hz
IMPEDANCE	8 Ω	8 Ω
SENSITIVITY	91 dB at 1 W/1 m	98 dB at 1 W/1 m
SOUND PRESSURE	101 dB max power at 1 m	-
DRIVER	-	-
DIFFUSER	Reinforced plastic	Plastic
DIMENSIONS	Total: 135 x 79 x 94 mm depth Socket: 95 x 60 x 69 mm depth	Total: 66 x 66 x 45 mm depth Socket: 54 mm Ø x 44 mm depth
WEIGHT	0.3 kg	0.2 kg

Piezoelectric tweeters of various formats.



	FSN-1005	FSN-1005A	FSN-1018	FSN-1038
POWER	Maximum: 35 Vp (25 W RMS in 4 Ω system, 12 W RMS in 8 Ω system)	Maximum: 35 Vp (25 W RMS in 4 Ω system, 12 W RMS in 8 Ω system)	Maximum: 35 Vp (25 W RMS in 4 Ω system, 12 W RMS in 8 Ω system)	Maximum: 35 Vp (25 W RMS in 4 Ω system, 12 W RMS in 8 Ω system)
RESPONSE	3,200-15,000 Hz	3,200-15,000 Hz	3,200-15,000 Hz	2,200-15,000 Hz
IMPEDANCE	High Z	High Z	High Z	High Z
SENSITIVITY	100 dB at 1 W/1 m	100 dB at 1 W/1 m	100 dB at 1 W/1 m	95 dB at 1 W/1 m
DIMENSIONS	Inside assembly Total: 85 x 85 x 70 mm depth Socket: 77 mm Ø x 64 mm depth	Outside assembly Total: 85 x 85 x 75 mm depth Socket: 77 mm Ø x 70 mm depth	Total: 187 x 80 x 105 mm depth Socket: 158 x 55 x 100 mm depth	Total: 95 mm Ø x 60 mm depth Socket: 68 mm Ø x 56 mm depth

SPEAKER COMPONENTS FOR SHIPS AND CARS

Pairs of loudspeakers for marine environments, with white chassis and grille and polypropylene and mylar cones.



MARINE WATERPROOF

FMA-535CX

FEATURES	2 coaxial channels with grille. 5 1/4" = 13.3 cm
POWER	70 W max., 35 W RMS
LOUDSPEAKERS	Polypropylene 5 1/4" coaxial Hi-Fi with 2" mylar tweeter
RESPONSE	125-20,000 Hz
IMPEDANCE	4 Ω
SENSITIVITY	90 dB at 1W/1m
MATERIAL	Plastic chassis and grille
COLOUR	White (RAL 9002)
DIMENSIONS	Total: 147.5 mm Ø x 73.5 mm depth Socket: 112 mm Ø x 54.5 mm depth Screws: 135 mm Ø
WEIGHT	2 x 0.6 kg
ACCESSORIES	Mounting accessories

MARINE WATERPROOF

FMA-640CX

FEATURES	2 coaxial channels with grille. 6 1/2" = 16.5 cm
POWER	80 W max., 40 W RMS
LOUDSPEAKERS	Polypropylene 6 1/2" coaxial Hi-Fi with 2" mylar tweeter
RESPONSE	100-20,000 Hz
IMPEDANCE	4 Ω
SENSITIVITY	92 dB at 1W/1m
MATERIAL	Plastic chassis and grille
COLOUR	White (RAL 9002)
DIMENSIONS	Total: 180 mm Ø x 83 mm depth Socket: 132 mm Ø x 62 mm depth Screws: 164.5 mm Ø
WEIGHT	2 x 0.75 kg
ACCESSORIES	Mounting accessories



FMA-535CX



FMA-640CX

SPEAKER COMPONENTS FOR SHIPS AND CARS

Pair of car loudspeakers, powerful coaxial series.

FONESTAR



FAR-130CX

FEATURES	2 coaxial ways. 5" = 12.5 cm
POWER	60 W max
RESPONSE	80-22,000 Hz
IMPEDANCE	4 Ω
SENSITIVITY	87 dB at 1W/1m
MAGNET	8 Oz
DIMENSIONS	Total: 152 (130) mm Ø x 56 mm depth Socket: 119 mm Ø x 49 mm depth Screws: 136 mm Ø
WEIGHT	2 x 0.7 kg
OPTIONAL	G-05 grilles

Pair of car loudspeakers, high power double cone series.



FAR-101DC

FEATURES	Double cone. 4" = 10 cm
POWER	40 W max
RESPONSE	100-18,000 Hz
IMPEDANCE	4 Ω
SENSITIVITY	88 dB at 1W/1m
MAGNET	5.4 Oz
DIMENSIONS	Total: 103 x 103 x 48 mm depth Socket: 103 mm Ø x 44 mm depth Screws: 82 x 82 mm
WEIGHT	2 x 0.4 kg
OPTIONAL	G-04 grilles

Pair of car loudspeaker grilles.



G-04

FEATURES

Pair of 4" grilles for auto-radio loudspeaker mods. FAR-100CX and FAR-101DC.

G-05

Pair of 5" grilles for auto-radio loudspeaker mods. FAR-130CX.

SPEAKER COMPONENTS SHIELDED MAGNET

Shielded magnet speakers for TV and computer replacements, etc.



SQ-2504

SPEAKER	2 1/2" = 64 mm
POWER	8 W max., 4 W RMS
RESPONSE	180-15,000 Hz
IMPEDANCE	4 Ω
SENSITIVITY	83 dB at 1 W/1 m
MAGNET	1 Oz shielded
DIMENSIONS	Total: 67 x 67 x 36 mm depth Socket: 66 mm Ø x 33 mm depth
WEIGHT	0.1 kg



SV-2353

SPEAKER	2 x 3 1/2" = 50 x 90 mm	4 x 6" = 100 x 152 mm
POWER	6 W max., 3 W RMS	4 W
RESPONSE	170-15,000 Hz	50-20,000 Hz
IMPEDANCE	4 Ω	8 Ω
SENSITIVITY	76 dB at 1 W/1 m	90 dB at 1 W/1 m
SOUND PRESSURE	-	97 dB at max power at 1 m
MAGNET	1.7 Oz shielded	2.2 Oz shielded
DIMENSIONS	Total: 90 x 50 x 44 mm depth Socket: 83 x 46 x 39 mm depth	Total: 150 x 100 x 50 mm depth Socket: 141 x 91 x 46 mm depth
WEIGHT	0.2 kg	0.2 kg



SV-4622

SPEAKER COMPONENTS MINIATURE

Speaker with cardboard cone for use in door entry systems, alarms, transistors, intercoms, headphones, etc.



FE-385

SPEAKER	3" = 76 mm
POWER	0.5 W
IMPEDANCE	8 Ω
SOUND PRESSURE	88 dB at max power at 1 m
MAGNET	Ferrite
DIMENSIONS	Total: 77 mm Ø x 23 mm depth Socket: 70 mm Ø x 20 mm depth

SPEAKER COMPONENTS

MINIATURE

FONESTAR

Speakers with mylar cone for use in door phones, alarms, intercoms, transistors, headphones... Special for outdoor use.



	SPEAKER	POWER	IMPEDANCE	SENSITIVITY	SOUND PRESSURE	MAGNET	CONE	DIMENSIONS	WEIGHT
EP-36	1 3/8" = 36 mm	0.30 W	8 Ω	-	-	Alnico	Mylar	Total: 36 mm Ø x 5 mm depth (ultraslim) Socket: 33 mm Ø x 3 mm depth	-
EP-40	1 5/8" = 40 mm	0.30 W	8 Ω	-	-	Alnico	Mylar	Total: 40 mm Ø x 5 mm depth (ultraslim) Socket: 36 mm Ø x 3 mm depth	-
AL-1582M	1 1/2" = 37 mm	0.25 W	8 Ω	-	-	Alnico	Mylar	Total: 38 mm Ø x 16 mm depth Socket: 35 mm Ø x 14 mm depth	-
FE-385M	3" = 76 mm	0.50 W	8 Ω	-	-	Ferrite	Mylar	Total: 77 mm Ø x 23 mm depth Socket: 70 mm Ø x 20 mm depth	-
FE-3850M	3" = 76 mm	5 W	8 Ω	91 dB at 1 W/1 m	97 dB at 1 m	Ferrite	Mylar	Total: 77 x 77 x 32 mm depth Socket: 77 mm Ø x 30 mm depth	0.2 kg
FE-35810M	3 1/2" = 89 mm	10 W	8 Ω	91 dB at 1 W/1 m	99 dB at 1 m	Ferrite	Mylar	Total: 87.8 x 87.8 x 35 mm depth Socket: 87 mm Ø x 33 mm depth	0.3 kg
FE-4815M	4" = 102 mm	15 W	8 Ω	91 dB at 1 W/1 m	100 dB at 1 m	Ferrite	Mylar	Total: 102 x 102 x 41 mm depth Socket: 101 mm Ø x 38 mm depth	0.4 kg

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FONESTAR

MICROPHONES



VHF WIRELESS SYSTEMS

BASICS

Easy-to-use wireless microphone. VHF transmission band with high transmission frequency stability.



MSH-209

FEATURES	Compact VHF receiver 174 to 194 MHz. Quartz fixed frequency control. Volume control. Unbalanced output. 1 hand-held microphone and 1 wireless belt-pack transmitter with 1 clip-on microphone with unidirectional electret condenser capsule and 1 unidirectional electret condenser head-worn microphone. Transport case included.
RECEIVER/ MICROPHONE	Fixed frequency channel 4 available channels
RESPONSE	80-12,000 Hz
OUTPUTS	1 unbalanced line, 6.3 mm jack 10,000 Ω 150 mV
POWER SUPPLY	Receiver: 12-18 V DC, 250 mA with adapter included Transmitter: 2 x LR6-AA batteries
DIMENSIONS	Receiver: 210 x 48 x 140 mm depth
WEIGHT	0.5 kg

VHF WIRELESS SYSTEMS

PREMIUM

Wireless microphones with transmission in the VHF band. Great reliability and operation stability. Easy-to-use.



MSH-110

FEATURES	Compact VHF receiver 174 to 194 MHz. Quartz fixed frequency control. Volume and squelch controls. Balanced and unbalanced output. Wireless hand-held microphone with high quality unidirectional dynamic capsule.
RECEIVER/ MICROPHONE	Fixed frequency channel 11 available channels
RESPONSE	50-15,000 Hz
OUTPUTS	Audio: 1 balanced micro, XLR 600 Ω 20 mV 1 unbalanced line, 6.3 mm jack 10,000 Ω 100 mV
POWER SUPPLY	Receiver: 12 V DC with adapter included Transmitter: 1 LR6-AA battery
DIMENSIONS	Receiver: 220 x 40 x 114 mm depth
WEIGHT	0.7 kg
ACCESSORIES	6.3 mm mono jack cable

MSH-135

FEATURES	Compact VHF receiver 174 to 194 MHz. Quartz fixed frequency control. Volume and squelch controls. Balanced and unbalanced output. Clip-on and head-worn microphone with unidirectional electret condenser capsule and wireless belt-pack transmitter.
RECEIVER/ MICROPHONE	Fixed frequency channel 11 available channels
RESPONSE	50-15,000 Hz
OUTPUTS	Audio: 1 balanced micro, XLR 600 Ω 20 mV 1 unbalanced line, 6.3 mm jack 10,000 Ω 100 mV
POWER SUPPLY	Receiver: 12 V DC with adapter included Transmitter: 2 x LR03-AAA batteries
DIMENSIONS	Receiver: 220 x 40 x 114 mm depth
WEIGHT	0.6 kg
ACCESSORIES	6.3 mm mono jack cable



UHF WIRELESS SYSTEM TRUE DIVERSITY

FONESTAR

UHF true diversity wireless microphones. High reception sensitivity and sound quality. Three frequency bands available to prevent 4G interference.



UHF 32 CH

MSH-883-631
MSH-883-570
MSH-883-512

UHF 32 CH

MSH-887-631
MSH-887-570
MSH-887-512

FEATURES	MSH-883-631 / MSH-883-570 / MSH-883-512	MSH-887-631 / MSH-887-570 / MSH-887-512
FREQUENCIES	631-645 MHz 32 channels 570-582 MHz 32 channels 512-525 MHz 32 channels	631-645 MHz 32 channels 570-582 MHz 32 channels 512-525 MHz 32 channels
RESPONSE	40-18,000 Hz	40-18,000 Hz
OUTPUTS	Audio: 1 balanced, XLR 1 unbalanced, 6.3 mm jack	Audio: 1 balanced, XLR 1 unbalanced, 6.3 mm jack
S/N RATIO	> 105 dB	> 105 dB
MICROPHONES	1 clip-on microphone with unidirectional electret condenser capsule and wireless belt-pack transmitter with mic./line input sensitivity selector	1 hand-held wireless microphone with unidirectional electret condenser capsule
POWER	10 mW max	10 mW max
POWER SUPPLY	Receiver: 12.8 V DC, 250 mA, with adapter included Transmitter microphone: 2 x LR6-AA batteries. Supports rechargeable batteries.	Receiver: 12.8 V DC, 250 mA, with adapter included Transmitter microphone: 2 x LR6-AA batteries. Supports rechargeable batteries.
DIMENSIONS	Receiver: 210 x 42 x 165 mm depth	Receiver: 210 x 45 x 161 mm depth
WEIGHT	1.2 kg	1.9 kg
ACCESSORIES	2 receiver assembly mounts for 1 U 19" rack. 6.3 mm mono jack cable Rechargeable batteries	2 receiver assembly mounts for 1 U 19" rack. 6.3 mm mono jack cable Rechargeable batteries



FEATURES

ANG-5L

Mount for assembling FONESTAR wireless systems mods. MSH-883 and MSH-887 in a 1 U 19" rack

FEATURES

0.2 kg

UHF WIRELESS SYSTEM TRUE DIVERSITY

True diversity UHF wireless microphones with dual receiver. High reception sensitivity and sound quality. Three frequency bands available to prevent 4G interferences.



UHF 32 CH

MSH-892-631
MSH-892-570
MSH-892-512

FEATURES

True diversity double receiver with 2 clip-on microphones with unidirectional electret condenser capsule and 2 wireless belt-pack transmitters. Auto scan function. IR channel to microphone transmission. Detachable antennas.

UHF 32 CH

MSH-895-631
MSH-895-570
MSH-895-512

True diversity double receiver with 2 wireless hand-held microphones with unidirectional electret condenser capsule. Auto scan function. IR channel to microphone transmission. Detachable antennas.

UHF 32 CH

MSH-898-631
MSH-898-570
MSH-898-512

True diversity receiver with 1 hand-held wireless microphone with unidirectional electret condenser capsule and 1 clip-on microphone with unidirectional electret condenser capsule and wireless belt-pack transmitter. Auto scan function. IR channel to microphone transmission. Detachable antennas.

FREQUENCIES	631-645 MHz 32 channels 570-582 MHz 32 channels 512-525 MHz 32 channels	631-645 MHz 32 channels 570-582 MHz 32 channels 512-525 MHz 32 channels	631-645 MHz 32 channels 570-582 MHz 32 channels 512-525 MHz 32 channels
RESPONSE	40-18,000 Hz	40-18,000 Hz	40-18,000 Hz
OUTPUTS	Audio: 2 balanced, XLR 2 unbalanced, 6.3 mm jack 1 unbalanced line mixed signal, 6.3 mm jack	Audio: 2 balanced, XLR 2 unbalanced, 6.3 mm jack 1 unbalanced line mixed signal, 6.3 mm jack	Audio: 2 balanced, XLR 2 unbalanced, 6.3 mm jack 1 unbalanced line mixed signal, 6.3 mm jack
S/N RATIO	> 105 dB	> 105 dB	> 105 dB
MICROPHONES	2 clip-on microphones with unidirectional electret condenser capsule and wireless belt-pack transmitter	2 wireless hand-held microphones with unidirectional electret condenser capsule	1 hand-held wireless microphone with unidirectional electret condenser capsule 1 clip-on microphone with unidirectional electret condenser capsule and wireless belt-pack transmitter
POWER	10 mW max	10 mW max	10 mW max
POWER SUPPLY	Receiver: 12.8 V DC, 450 mA, with adapter included Transmitter microphone: 2 x LR6-AA batteries. Supports rechargeable batteries.	Receiver: 12.8 V DC, 450 mA, with adapter included Transmitter microphone: 2 x LR6-AA batteries. Supports rechargeable batteries.	Receiver: 12.8 V DC, 450 mA, with adapter included Transmitter microphone: 2 x LR6-AA batteries. Supports rechargeable batteries.
DIMENSIONS	Receiver: 420 x 45 x 187 mm depth	Receiver: 420 x 45 x 187 mm depth	Receiver: 420 x 45 x 187 mm depth
WEIGHT	3.1 kg	3.5 kg	3.3 kg
ACCESSORIES	Mountt for assembly in a 1 U 19" rack. 2 x 6.3 mm mono jack cable Rechargeable batteries	Mountt for assembly in a 1 U 19" rack. 2 x 6.3 mm mono jack cable Rechargeable batteries	Mountt for assembly in a 1 U 19" rack. 2 x 6.3 mm mono jack cable Rechargeable batteries
OPTIONAL	MSC-2, MSC-12, MSC-24: recharge docking station for wireless microphones		



MSHT-40M



MSHT-45P



MSHT-43C



MSHT-42S

UHF 32 CH

MSHT-40M-631
MSHT-40M-570
MSHT-40M-512

Wireless hand-held microphone with unidirectional electret condenser capsule and UHF transmitter for replacement or extension. For mods. MSH-887, MSH-895 and MSH-898.

UHF 32 CH

MSHT-45P-631
MSHT-45P-570
MSHT-45P-512

Clip-on microphone with unidirectional electret condenser capsule and UHF wireless belt-pack transmitter for replacement or extension. For mods. MSH-883, MSH-892 and MSH-898.

UHF 32 CH

MSHT-42S-631
MSHT-42S-570
MSHT-42S-512

Wireless desktop microphone with unidirectional electret condenser capsule and UHF transmitter for replacement or extension. For mods. MSH-883, MSH-887, MSH-892, MSH-895 y MSH-898.

UHF 32 CH

MSHT-43C-631
MSHT-43C-570
MSHT-43C-512

Hands-free wireless head-worn microphone with unidirectional electret condenser capsule and UHF transmitter for replacement or extension. For mods. MSH-883, MSH-887, MSH-892, MSH-895 y MSH-898.

FEATURES

FREQUENCY	512-525 MHz 32 channels	631-645 MHz 32 channels 570-582 MHz 32 channels 512-525 MHz 32 channels	631-645 MHz 32 channels 570-582 MHz 32 channels 512-525 MHz 32 channels	631-645 MHz 32 channels 570-582 MHz 32 channels 512-525 MHz 32 channels
POWER SUPPLY	2 x LR6-AA batteries. Supports rechargeable batteries; integrated recharge function	2 x LR6-AA batteries. Supports rechargeable batteries; integrated recharge function	2 x LR6-AA batteries. Supports rechargeable batteries; integrated recharge function with mini USB connector	1 LR03-AAA battery
DIMENSIONS	257 x 52 mm Ø	64 x 108 x 24 mm depth	470 mm total height with 425 - mm gooseneck and 100 x 42 x 125 mm depth base	
WEIGHT	0.4 kg	0.1 kg	0.65 kg	0.1 kg
ACCESSORIES	Rechargeable batteries	Foam windshield Tie clip Rechargeable batteries	Antenna Rechargeable batteries	Foam windshield Battery

UHF WIRELESS SYSTEM TRUE DIVERSITY

Receivers for true diversity UHF wireless microphones.



UHF 32 CH

MSHR-45-631
MSHR-45-570
MSHR-45-512

FEATURES

True diversity UHF receiver.
Auto scan function.
IR channel to microphone transmission.
Detachable antennas.
For replacement or extension.
For mods. MSH-883 and MSH-887.

FREQUENCY

631-645 MHz 32 channels
570-582 MHz 32 channels
512-525 MHz 32 channels

OUTPUTS

Audio:
1 balanced, XLR
1 unbalanced, 6.3 mm jack

POWER SUPPLY

Receiver: 12.8 V DC, 250 mA, with adapter included

DIMENSIONS

210 x 45 x 161 mm depth

WEIGHT

1.5 kg

ACCESSORIES

2 receiver assembly mounts for 1 U 19" rack.
6.3 mm mono jack cable

OPTIONAL

ANG-5L: mount for assembly in 19" rack



UHF 32 CH

MSHR-46D-631
MSHR-46D-570
MSHR-46D-512

True diversity UHF double receiver.
Auto scan function.

IR channel to microphone transmission.
Detachable antennas.

For mods. MSH-892, MSH-895 and MSH-898.

631-645 MHz 32 channels
570-582 MHz 32 channels
512-525 MHz 32 channels

Audio:

2 balanced, XLR
2 unbalanced, 6.3 mm jack
1 unbalanced line mixed signal, 6.3 mm jack

Receiver:

12.8 V DC, 450 mA, with adapter included

Dimensions:

420 x 45 x 187 mm depth

Weight:

2.7 kg

Mounts:

Mounts for assembly in a 1 U 19" rack.

Optional:

-

UHF WIRELESS SYSTEM RECHARGE STATIONS

Recharge docking stations for wireless microphones and in-ear monitor.

MSC-2

FEATURES

Wireless microphone recharge docking station. Allows recharging of rechargeable batteries for mods. MSHT-40M, MSHT-45P and RI-840.

INDICATOR LIGHTS

LED power on indicator
Charging process and charging complete indicator lights

POWER SUPPLY

6 V DC, 1 A, with adapter included

DIMENSIONS

170 x 90 x 90 mm depth

WEIGHT

0.5 kg



Recharge docking stations for wireless microphones and in-ear

MSC-12

FEATURES

Wireless microphone and in-ear monitor systems recharge docking station. For recharging 12 microphones or receivers simultaneously. Allows recharging of rechargeable batteries of mods.: MSHT-40M, MSHT-45P and RI-840.

INDICATOR LIGHTS

LED power on indicator
Charging indicator light

POWER SUPPLY

5.5 V DC, 5 A, with adapter included

DIMENSIONS

355 x 69 x 202 mm depth

WEIGHT

2.4 kg



UHF WIRELESS SYSTEM FOR EDUCATION

UHF wireless microphone system

ACADEMY-1 N!

FEATURES

Wireless microphone for education and presentations. Wireless hand-held/head-worn microphone with unidirectional electret condenser capsule, rechargeable Li-ion battery, laser pointer and slideshow function. Receiver with audio output and volume control. UHF technology with digital modulation provides noise and interference-free sound. Automatic microphone and receiver synchronisation. 12 microphones and receivers can operate at the same time. Transmission distance up to 30 m.

RECEIVER/MICROPHONE

16 automatic selection channels UHF 720 - 780 MHz bandwidth, modulation GFSK

RESPONSE

50-16,000 Hz

OUTPUTS

1 unbalanced microphone/line, 6.3 mm mono jack, 715 mV RMS
1 USB for slideshow function

S/N RATIO

> 90 dB

POWER

10 mW max

POWER SUPPLY

Receiver:
5 V DC, 1 A with adapter included
Transmitter microphone:
Rechargeable Li-ion battery, 120 mAh 3.7 V
Battery life: up to 7 h*
Charging time: 2 h
*Autonomy for normal speech level. Depending on the level of sound pressure the speaker produces when speaking, autonomy may be reduced.

DIMENSIONS

Receiver: 165 x 30 x 105 mm depth

WEIGHT

0.3 kg

ACCESSORIES

6.3 mm mono jack cable
USB to micro USB cable
Windshield foam



UHF 16 CH

UHF WIRELESS SYSTEM FOR EDUCATION

Receiver for UHF wireless microphone system mod. ACADEMY-1



ACADEMY-1RX

FEATURES	Wireless microphone receiver for education and presentations, with audio output and volume control. UHF technology with digital modulation provides noise and interference-free sound. Automatic receiver and microphone mod. ACADEMY-1TX synchronisation. 12 microphones and receivers can operate at the same time. Transmission distance up to 30 m.
RECEIVER/MICROPHONE	16 automatic selection channels UHF 720 - 780 MHz bandwidth, modulation GFSK
RESPONSE	50-16,000 Hz
OUTPUTS	1 unbalanced microphone/line, 6.3 mm mono jack, 715 mV RMS 1 USB for slideshow function
S/N RATIO	> 90 dB
POWER SUPPLY	5 V DC, 1 A including adapter
DIMENSIONS	165 x 30 x 112 mm depth
WEIGHT	0.2 kg
ACCESSORIES	6.3 mm mono jack cable
OPTIONAL	ACADEMY-1TX: UHF wireless hand-held and head-worn microphone



Transmitter for UHF wireless microphone system mod. ACADEMY-1

ACADEMY-1TX

FEATURES	Wireless hand-held/head-worn microphone with unidirectional electret condenser capsule, rechargeable Li-ion battery, laser pointer and slideshow function. UHF technology with digital modulation provides noise and interference-free sound. Automatic synchronisation of microphone and receiver mod. ACADEMY-1RX. 12 microphones and receivers can operate at the same time. LCD information display. Small size and light weight, with built-in clip-on. Transmission distance up to 30 m.
MICROPHONE	16 automatic selection channels UHF 720 - 780 MHz bandwidth, modulation GFSK
RESPONSE	50-16,000 Hz
INPUTS	1 unbalanced microphone, 3.5 mm mono jack
CONTROLS	Laser pointer On/off Slideshow control Volume and mute control
POWER	10 mW max
POWER SUPPLY	Rechargeable Li-ion battery, 500 mAh 3.7 V Battery life: up to 7 h* Charging time: 2 h *Autonomy for normal speech level. Depending on the level of sound pressure the speaker produces when speaking, autonomy may be reduced.
DIMENSIONS	147 x 20 x 22 mm depth
WEIGHT	0.04 kg
ACCESSORIES	Head-worn microphone USB to micro USB cable for recharging Windshield foam
OPTIONAL	ACADEMY-1RX: UHF wireless receiver

UHF WIRELESS SYSTEM ANTENNA DISTRIBUTOR AND ACCESSORIES

FONESTAR

Accessories for professional UHF wireless microphone systems.



AMP-811

FEATURES

Antenna amplifier to improve reception and extend the range of wireless microphones. Female TNC connectors.



ADU-830

Directional UHF antenna to improve reception and extend the range of wireless microphones. Female TNC connector. Mount with standard 5/8" thread for installation on microphone stand or wall.



ADU-823AMP

UHF directional antenna with integrated amplifier. Improves reception and extends the range of wireless microphones. Female TNC connector. Mount with standard 5/8" thread for installation on microphone stand or wall.

GAIN	10 dB	14 dB	30 dB
POWER SUPPLY	9 V DC supplied by receiver mod. MSHR-45	-	8 V DC
DIMENSIONS	28 x 96 x 24 mm depth	265 x 25 x 305 mm depth	267 x 30 x 305 mm depth
WEIGHT	-	0.3 kg	0.3 kg
OPTIONAL	TNC antenna cable mods. CAB-05M or CAB-1M	1 m TNC male to TNC male cable	1 m TNC male to TNC male cable



CAB-1M

FEATURES

1 m antenna cable male TNC to male TNC for wireless FONESTAR system mods. AMP-811, MSHR-45 and MSHR-46D.



7264

A CONNECTOR TNC female.

B CONNECTOR TNC female.

FEATURES Female-female TNC adapter for panel assembly

UHF WIRELESS SYSTEM

ANTENNA DISTRIBUTOR AND ACCESSORIES

Wireless UHF diversity in-ear personal monitor system.



UHF 32 CH

TSI-40-512

DESCRIPTION	UHF desktop transmitter use or for installation in 1 U rack 19". 32 selectable PLL UHF 512-525 MHz channels. Mono FM modulation transmission. For use with the in ear monitor FONESTAR wireless system.
INPUTS	2 mics/lines L & R and 6.3 mm jack 1 aux, 3.5 mm stereo jack
OUTPUTS	Stereo headphones, 3.5 mm jack
CONTROLS	On/off Volume controls: L and R channel, and headphone output RF channel selection and configuration buttons RF output level control
POWER SUPPLY	12.8 V DC, 1 A with adapter included
DIMENSIONS	210 x 46 x 175 mm depth
WEIGHT	0.56 kg
ACCESSORIES	Antenna 2 x 1 m cables with 6.3 mm mono jack connectors 1 x 1 m m cable with 3.5 mm stereo jack connectors Mountt for assembly in a 1 U 19" rack.

UHF 32 CH

RI-840-512

FEATURES	Wireless in ear belt-pack monitor receiver with 32 selectable PLL UHF 512-525 MHz channels. Reception with mono FM modulation. For use with the in ear monitor FONESTAR wireless system. Several receivers (RI-840-512) can be used in the same channel with one transmitter. For use with models MSHT-40M-512, MSHT-42S-512, MSHT-43C-512 and MSHT-45P-512.
OUTPUTS	Headphones, 3.5 mm stereo jack
RESPONSE	50-15,000 Hz
CONTROLS	On/off Volume control Single (L) or double (L+R) output selector RF channel selection and configuration buttons
POWER SUPPLY	2 x LR6-AA batteries. Supports rechargeable batteries; integrated recharge function
DIMENSIONS	64 x 108 x 24 mm depth
WEIGHT	0.12 kg
ACCESSORIES	Headphones Belt clip Rechargeable batteries
OPTIONAL	MSC-2, MSC-12, MSC-24: recharge docking station for wireless microphones



TOUR SYSTEMS

POINT-TO-MULTIPOINT

FONESTAR

Tour guide system with transmitter and receivers. Transmission from the transmitter to the receivers.



FEATURES

TOUR-1T

Wireless transmitter.
Compact size, lightweight and resistant design.
Transmission to as many receivers TOUR-1R as you wish on the same channel.
16 channels, GFSK mono modulation. Up to 4 channels can operate simultaneously.
Range 50 m.
Delay 22 ms.
Internal rechargeable battery, up to 20 hours of use.
Simple and intuitive handling.
LCD screen, displays chosen channel, battery level and volume.
Automatic switch off system.

TOUR-1R

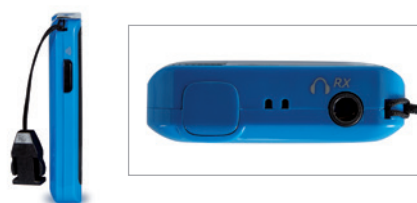
Wireless receiver.
Compact size, lightweight and resistant design.
16 channels, GFSK mono modulation.
Up to 4 channels can operate simultaneously.
Range 50 m.
Internal rechargeable battery, up to 20 hours of use.
Simple and intuitive handling.
LCD screen, displays chosen channel, battery level and volume.
Automatic switch off system.

RESPONSE	20-5,000 Hz	20-5,000 Hz
CONTROLS	On/off switch and mute Channel selection and volume control	On/off switch Channel selection and volume control
INPUTS	Micro/line with clip-on microphone included, 3.5 mm jack	-
OUTPUTS	-	Earphone, 3.5 mm jack
POWER SUPPLY	Rechargeable Li-ion battery, 3.7 V 630 mAh, micro USB B Recharge time 6 h	Rechargeable Li-ion battery, 3.7 V 630 mAh, micro USB B Recharge time 6 h
COLOUR	White	Blue
DIMENSIONS	40 x 140 x 12 mm depth	40 x 69 x 12 mm depth
ACCESSORIES	Hanger	Hanger
OPTIONAL	TOURC-12: charging case for 12 receivers TOURC-35: charging case for 35 receivers TOURKS: receiver synchronizer	TOURC-12: charging case for 12 receivers TOURC-35: charging case for 35 receivers TOURKS: receiver synchronizer

TOUR SYSTEMS

BIDIRECTIONAL

Transmitter and receiver for tour guide. Dual-direction transmission, any receiver can ask and be heard by transmitter and receivers.



FEATURES

TOUR-2T

Bidirectional wireless transmitter.
 Bidirectional communication.
 Can receive audio from any receiver, only one at a time will be heard in all the receivers.
 Control of bidirectional transmission.
 Compact size, lightweight and resistant design.
 Transmission to as many receivers TOUR-2R as you wish on the same channel.
 16 channels, GFSK mono modulation.
 Up to 4 channels can operate simultaneously.
 Delay 22 ms.
 Range 50 m.
 Internal rechargeable battery, up to 20 hours of use.
 Simple and intuitive handling.
 LCD screen, displays chosen channel, battery level and volume.
 Automatic switch off system.

TOUR-2R

Bidirectional wireless receiver.
 If the receiver's bidirectional function is activated, the receivers can transmit, only one at a time, and will be received by the transmitter and all the receivers.
 Microphone incorporated and PTT button.
 Compact size, lightweight and resistant design.
 16 channels, GFSK mono modulation.
 Up to 4 channels can operate simultaneously.
 Range 50 m.
 Internal rechargeable battery, up to 20 hours of use.
 Simple and intuitive handling.
 LCD screen, displays chosen channel, battery level and volume.
 Automatic switch off system.

RESPONSE	20-5,000 Hz	20-5,000 Hz
CONTROLS	Bidirectional communication switch. On/off switch and mute Channel selection and volume control	PTT push button On/off switch Channel selection and volume control
INPUTS	Mic/line with clip-on microphone and earphone included, 3.5 mm jack	-
OUTPUTS	-	Earphone, 3.5 mm jack
POWER SUPPLY	Rechargeable Li-ion battery, 3.7 V 600 mAh, micro USB B Recharge time 6 h	Rechargeable Li-ion battery, 3.7 V 600 mAh, micro USB B Recharge time 6 h
COLOUR	White	Blue
DIMENSIONS	40 x 88 x 12 mm depth	40 x 88 x 12 mm depth
ACCESSORIES	Hanger	Hanger
OPTIONAL	TOURC-12: charging case for 12 receivers TOURC-35: charging case for 35 receivers TOURKS: receiver synchronizer	TOURC-12: charging case for 12 receivers TOURC-35: charging case for 35 receivers TOURKS: receiver synchronizer

TOUR SYSTEMS RECHARGE CASES

Charging case for tour guide transmitters and receivers.

FONESTAR



TOURC-12

FEATURES

Charging case for tour guide transmitters and receivers. Allows charging of up to 12 TOUR-1T, TOUR-1R, TOUR-2T, TOUR-2R and TOURKS devices.

POWER SUPPLY	5 V DC, 4 A including adapter Recharge time 6 h
COLOUR	Black
DIMENSIONS	355 x 130 x 120 mm depth
WEIGHT	1 kg

TOURC-35

Charging case for tour guide transmitters and receivers. Allows charging of up to 35 TOUR-1T, TOUR-1R, TOUR-2T, TOUR-2R and TOURKS devices.

POWER SUPPLY	5 V DC, 4 A including adapter Recharge time 6 h
COLOUR	Black
DIMENSIONS	400 x 270 x 140 mm depth
WEIGHT	2.8 kg

Synchronization kit for tour guide transmitters and receivers.



FEATURES

TOURKS

Synchronization kit for tour guide transmitters and receivers. Automatically modifies the operating channel of devices TOUR-1T, TOUR-1R, TOUR-2T and TOUR-2R connected to a charging case TOURC-12 or TOURC-35.

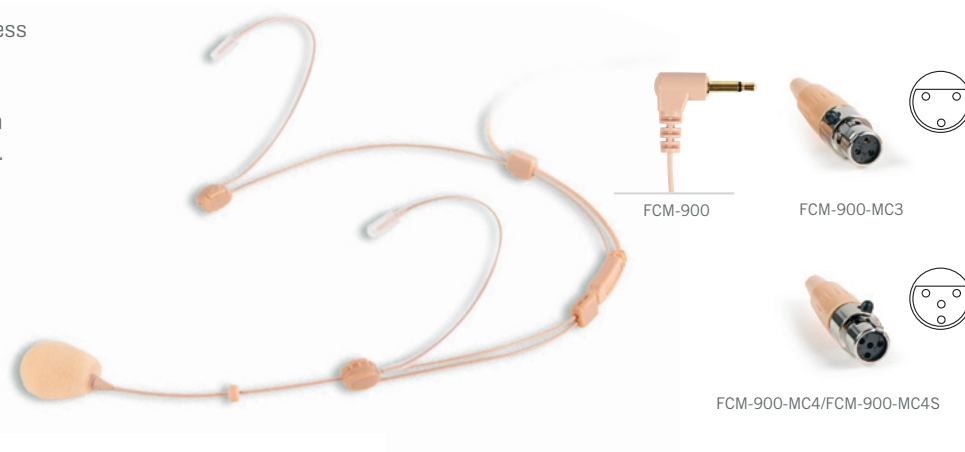
CONTROLS	On/off switch and channel selection
POWER SUPPLY	Rechargeable Li-ion battery, 3.7 V 600 mAh, micro USB B Recharge time 6 h
COLOUR	White
DIMENSIONS	40 x 88 x 12 mm depth
OPTIONAL	TOURC-12: charging case for 12 receivers TOURC-35: charging case for 35 receivers

MICROPHONES FOR WIRELESS EQUIPMENT

HEADSETS

Hands-free microphone headsets for wireless systems or electret condenser microphone inputs.

Stylish and discreet design [flesh colour] in flexible and easily malleable stainless steel.



FCM-900
FCM-900-MC3
FCM-900-MC4
FCM-900-MC4S



FEATURES Miniature unidirectional electret condenser capsule, high quality with exceptionally low feedback. For wireless equipment or in electret condenser microphone inputs. Flesh colour. Adjustable.

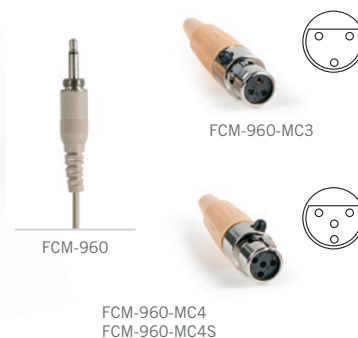
RESPONSE	70-16,000 Hz
SENSITIVITY	-47 dB ± 3 dB (V/Pa)
IMPEDANCE	1,400 Ω
POWER SUPPLY	1 to 10 V DC
CABLE	1 m
MATERIAL	Stainless steel, flexible and easily malleable
ACCESSORIES	Foam windshield
COMPATIBILITY	FCM-900, 3.5 mm mono 90° jack for mods. MSH-209, MSH-135, MSHT-45P, FCM-900-MC3, Mini XLR for mods. AKG and Gemini FCM-900-MC4, Mini 4-pin XLR for mods. MSH-236 FCM-900-MC4S, Mini 4-pin XLR for mods. Shure and JTS

Hands-free microphone headset for wireless systems or in electret condenser microphone inputs.

Stylish design in rigid stainless steel. Foldable.



FCM-960
FCM-960-MC3
FCM-960-MC4
FCM-960-MC4S



FEATURES Miniature omnidirectional electret condenser capsule. For wireless equipment or in electret condenser microphone inputs. Flesh colour. Adjustable and foldable.

RESPONSE	20-20,000 Hz
SENSITIVITY	-44 dB ±3 dB (V/Pa)
IMPEDANCE	2,200 Ω
POWER SUPPLY	1 to 10 V DC - FCM-960-MC4S 1.5 V DC
CABLE	1 m
MATERIAL	Rigid stainless steel
ACCESSORIES	Foam windshield
COMPATIBILITY	FCM-960, 3.5 mm mono jack for mods. MSH-209, MSH-135, MSHT-45P, FCM-960-MC3, Mini XLR for mods. AKG and Gemini FCM-960-MC4, Mini 4-pin XLR for mods. MSH-236 FCM-960-MC4S, Mini 4-pin XLR for mods. Shure and JTS



FCM-930A
FCM-930A-MC3

FEATURES

One-way electret condenser capsule.
For wireless equipment or in electret condenser microphone inputs.
Stylish and discreet design, flesh colour.
High quality capsule with exceptionally low feedback.
Robust manufacturing suitable for sporting activities, such as aerobics, step, etc.

RESPONSE	70-16,000 Hz
SENSITIVITY	-47 dB ±3 dB (V/Pa)
IMPEDANCE	1,400 Ω
POWER SUPPLY	1 to 10 V DC
CABLE	1 m
MATERIAL	Stainless steel, flexible and easily malleable
ACCESSORIES	Foam windshield
COMPATIBILITY	FCM-930A, 90° 3.5 mm mono jack for mods. MSH-209, MSH-135, MSHT-45P, FCM-930-MC3, Mini XLR for mods. AKG and Gemini, FCM-930-MC4, Mini 4-pin XLR for mod. MSH-236 FCM-930-MC4S, Mini 4-pin XLR for mods. Shure and JTS

Hands-free microphone headsets for wireless systems or in microphone inputs.



FDM-621
FDM-621MC
FDM-621MCS

FEATURES

Hands-free unidirectional dynamic microphone headset. For wireless FONESTAR equipment or microphone inputs.

CAPSULE	Unidirectional dynamics
RESPONSE	50-16,000 Hz
SENSITIVITY	-63 dB (V/Pa)
IMPEDANCE	200-600 Ω
POWER SUPPLY	-
CABLE	1 m
ACCESSORIES	Foam windshield
COMPATIBILITY	FDM-621, 90° 3.5 mm stereo jack for mods. MSH-135/MSHT-45P FDM-621MC, Mini 4-pin XLR for mods. MSH-236 FDM-621MCS, Mini 4-pin XLR for mods. Shure and JTS

FCM-612
FCM-612MC
FCM-612-MC3
FCM-612MCS

FEATURES

Hands-free unidirectional electret condenser microphone headset. For wireless FONESTAR equipment or in electret condenser microphone inputs. Good and comfortable grip. Highly resistant. Capsule with suspension.

CAPSULE	Unidirectional electret condenser
RESPONSE	80-12,000 Hz
SENSITIVITY	-48 dB (V/Pa)
IMPEDANCE	600 Ω
POWER SUPPLY	1.5 to 8 V DC
CABLE	1.2 m
ACCESSORIES	Foam windshield
COMPATIBILITY	FCM-612, 90° 3.5 mm stereo jack for mods. MSH-135 & MSHT-45P FCM-612MC, Mini 4-pin XLR for mods. MSH-236 FCM-612-MC3, Mini XLR for mods. AKG and Gemini FCM-612MCS, Mini 4-pin XLR for mods. Shure and JTS

MICROPHONES FOR WIRELESS EQUIPMENT HEADSETS

Hands-free microphone headsets for wireless systems or electret condenser microphone inputs. Stylish and discreet design [flesh colour] in flexible and easily malleable stainless steel.

	FCM-613
FEATURES	Hands-free unidirectional electret condenser microphone headset. For wireless FONESTAR equipment or in electret condenser microphone inputs.
CAPSULE	Unidirectional electret condenser
RESPONSE	50-16,000 Hz
SENSITIVITY	-42 dB (V/Pa)
IMPEDANCE	2,200 Ω
POWER SUPPLY	1 to 10 V DC
CABLE	1 m
ACCESSORIES	Foam windshield
COMPATIBILITY	3.5 mm mono jack with male thread.



MICROPHONES FOR WIRELESS EQUIPMENT CLIP-ON

Clip-on microphones for wireless equipment with miniature unidirectional electret condenser capsule. Highly sensitive with exceptionally low feedback.



	FCM-16 FCM-16MC FCM-16MCS
FEATURES	Unidirectional electret condenser microphone for lapel with clip-on. For wireless FONESTAR equipment or in electret condenser microphone inputs.
CAPSULE	Unidirectional electret condenser
RESPONSE	50-15,000 Hz
SENSITIVITY	-48 dB (V/Pa)
IMPEDANCE	1,000 Ω
POWER SUPPLY	1.5 to 8 V DC
CABLE	1 m
ACCESSORIES	Tie clip-on and windshield foam
COMPATIBILITY	FCM-16, 90° 3.5 mm stereo jack for mods. MSH-135/MSHT-45P FCM-16MC, Mini 4-pin XLR for mods. MSH-236 FCM-16MCS, Mini 4-pin XLR for mods. Shure and JTS

Clip-on microphones for wireless systems with miniature unidirectional electret condenser capsule. High sensitivity and wide frequency response to reproduce natural sound.

FCM-860 FCM-860-MC3 FCM-860-MC4 FCM-860-MC4S

FEATURES	Professional lapel clip-on microphone. High quality miniature and low feedback capsule. For wireless FONESTAR equipment or in electret condenser microphone inputs.
CAPSULE	Unidirectional electret condenser
RESPONSE	100-12,000 Hz
SENSITIVITY	-48 dB \pm 3 dB (V/Pa) at 1 kHz -44 dB \pm 3 dB (V/Pa)
IMPEDANCE	1,300 Ω 1,300 Ω 1,600 Ω 1,600 Ω
POWER SUPPLY	1 to 10 V DC
CABLE	1.5 m long, thin, extra-flexible cable
ACCESSORIES	Protective case, tie clip-on, and windshield grille



DYNAMIC MICROPHONES

HAND-HELD

FONESTAR

Dynamic hand-held microphones for general and professional use.



FDM-1020

FDM-1050

FDM-1035

FDM-1036
FDM-1036-B

CAPSULE	Unidirectional dynamics	Unidirectional dynamics	Cardioid unidirectional dynamic	Cardioid unidirectional dynamic
RESPONSE	80-12,500 Hz	70-14,000 Hz	40-15,000 Hz	40-15,000 Hz
SENSITIVITY	-54 dB (V/Pa) at 1 kHz	-54 dB (V/Pa) at 1 kHz	-56 dB (V/Pa) at 1 kHz	-56 dB (V/Pa) at 1 kHz
IMPEDANCE	600 Ω	600 Ω	310 Ω	600 Ω
POWER SWITCH	On/off	On/off	-	On/off
BODY	Cast metal, dark gray	Metallic, dark grey	Cast metal, dark gray	Cast metal, dark gray
CONNECTOR	XLR male	XLR male	XLR male	XLR male
WEIGHT	0.2 kg	0.2 kg	0.2 kg	0.2 kg
ACCESSORIES	Microphone stand and protective case 4.5 m unbalanced cable	Microphone stand and protective case 4.5 m unbalanced cable	Microphone stand and carrying bag 3 m unbalanced cable and 6.3 mm mono jack	Microphone stand and carrying bag 3 m unbalanced cable and 6.3 mm mono jack



FDM-1060

FDM-1060-4

FDM-1060-4B

CAPSULE	Unidirectional dynamics	Unidirectional dynamics	Unidirectional dynamics
RESPONSE	50-15,000 Hz	50-15,000 Hz	50-15,000 Hz
SENSITIVITY	-56 dB (V/Pa) at 1 kHz	-56 dB (V/Pa) at 1 kHz	-56 dB (V/Pa) at 1 kHz
IMPEDANCE	600 Ω	600 Ω	600 Ω
POWER SWITCH	On/off	On/off	On/off
BODY	Cast-iron, black	Cast-iron, black	Cast-iron, black
CONNECTOR	PF-4 male	PF-4 male	PF-4 male
WEIGHT	0.3 kg	0.3 kg	0.3 kg
ACCESSORIES	Microphone stand and protective case 3 m unbalanced cable	Protective case 3 m unbalanced extendable cable with PF-4 female to DIN 5 connectors for contact closure by switch Unbalanced line	Protective case 3 m unbalanced extendable cable with PF-4 female to DIN 4 connectors for contact closure by switch Unbalanced line
	-	Special for buses	Special for buses

DYNAMIC MICROPHONES

HAND-HELD

Dynamic hand-held microphones for general and professional use.



FDM-9070

FEATURES

Hand-held dynamic microphone. Directivity pattern with high degree of feedback rejection. Multi-layer filter, wind and breath shields incorporated. Shock proof suspension system. Low level of handling noise. High quality 'live voice' sound.

CAPSULE	Hypercardioid unidirectional dynamic
RESPONSE	100-15,000 Hz
SENSITIVITY	-54 dB \pm 3 dB (V/Pa) at 1 kHz
IMPEDANCE	400 Ω
POWER SWITCH	-
BODY	Cast-iron, stylish finish
CONNECTOR	XLR male
WEIGHT	0.3 kg
ACCESSORIES	Microphone stand, protective case and transport bag

FDM-9071

Hand-held dynamic microphone. Directivity pattern with high degree of feedback rejection. Multi-layer filter, wind and breath shields incorporated. Shock proof suspension system. Low level of handling noise. High quality 'live voice' sound.

CAPSULE	Hypercardioid unidirectional dynamic
RESPONSE	100-15,000 Hz
SENSITIVITY	-54 dB \pm 3 dB (V/Pa) at 1 kHz
IMPEDANCE	400 Ω
POWER SWITCH	Sliding On/off
BODY	Cast-iron, stylish finish
CONNECTOR	XLR male
WEIGHT	0.3 kg
ACCESSORIES	Microphone stand and protective case

DYNAMIC MICROPHONES

DESKTOP

Dynamic desktop microphone



FDM-629

FEATURES

Desktop microphone. Stylish design.

CAPSULE	Unidirectional dynamics
RESPONSE	100-18,000 Hz
SENSITIVITY	-64 dB \pm 3 dB (V/Pa) at 1 kHz
IMPEDANCE	600 Ω
PUSH BUTTON	3 positions: on press, on locked and off
HEIGHT	Total: 36 cm with tube, gooseneck and desktop base
CABLE	1.7 m with 6.3 mm mono jack connector Unbalanced line
WEIGHT	0.9 kg
COMPATIBILITY	For priority through signal level in FONESTAR amplifiers mods. MA-65GU, - MA-65RGUB, MA-125Z, MA-125GU, MA-245GU, MAZ-4250E, MAZ-4160, MAZ-4480,

FDM-629-B

Desktop microphone. Stylish design.

CAPSULE	Unidirectional dynamics
RESPONSE	100-18,000 Hz
SENSITIVITY	-64 dB \pm 3 dB (V/Pa) at 1 kHz
IMPEDANCE	600 Ω
PUSH BUTTON	3 positions: on press, on locked and off
HEIGHT	1.7 m fixed cable with male XLR connector
CABLE	Total: 36 cm with tube, gooseneck and desktop base
WEIGHT	0.9 kg



FDM-629-P



FDM-629-DIN5

FEATURES	Desktop microphone. Stylish design.	Desktop microphone. Stylish design.
CAPSULE	Unidirectional dynamics	Unidirectional dynamics
RESPONSE	100-18,000 Hz	100-18,000 Hz
SENSITIVITY	-64 dB ±3 dB (V/Pa) at 1 kHz	-64 dB ±3 dB (V/Pa) at 1 kHz
IMPEDANCE	600 Ω	600 Ω
PUSH BUTTON	3 positions: on press, on locked and off Dual circuit	3 positions: on press, on locked and off Dual circuit
CONNECTOR	1.7 m fixed cable with 6.3 mm mono jack connector and stripped ends for contact closure using push button to activate priority or chimes	1.7 m fixed cable with DIN 5 connector for contact closure using press button
HEIGHT	Total: 36 cm with tube, gooseneck and desktop base	Total: 36 cm with tube, gooseneck and desktop base
WEIGHT	0.9 kg	0.9 kg
COMPATIBILITY	For priority through contact closure in FONESTAR amplifiers, mods. MA-680RGUZ, MAZ-4160, MAZ-4480,	-



FDM-625



FDM-625-B

IMPEDANCE RANGE (Ohm)	601 - 638	-
FEATURES	Desktop microphone.	Desktop microphone.
CAPSULE	Unidirectional dynamics	Unidirectional dynamics
RESPONSE	80-12,000 Hz	80-12,000 Hz
SENSITIVITY	-50 dB (V/Pa) at 1 kHz	-50 dB (V/Pa) at 1 kHz
IMPEDANCE	600 Ω	600 Ω
PUSH BUTTON	3 positions: on press, on locked and off	3 positions: on press, on locked and off
CONNECTOR	Fixed 1.5 m extendable cable with 6.3 mm mono jack connector	Fixed 1.5 m extendable cable with XLR connector
HEIGHT	Total: 360 mm with 14 mm Ø gooseneck and desktop base	Total: 360 mm with 14 mm Ø gooseneck and desktop base
CABLE	-	-
WEIGHT	0.9 kg	0.8 kg

DYNAMIC MICROPHONES

DESKTOP

Dynamic desktop microphone



FDM-625-P



FDM-625-DIN5

IMPEDANCE RANGE (Ohm)	-	-
FEATURES	Desktop microphone.	Desktop microphone.
CAPSULE	Unidirectional dynamics	Unidirectional dynamics
RESPONSE	80-12,000 Hz	80-12,000 Hz
SENSITIVITY	-50 dB (V/Pa) at 1 kHz	-50 dB (V/Pa) at 1 kHz
IMPEDANCE	600 Ω	Dynamic desktop microphone
PUSH BUTTON	3 positions: on press, on locked and off Dual circuit	3 positions: on press, on locked and off Dual circuit
CONNECTOR	-	Fixed 1.5 m extendable with DIN-5 connector for contact closure using push button
HEIGHT	Total: 360 mm with 14 mm Ø gooseneck and desktop base	Total: 360 mm with 14 mm Ø gooseneck and desktop base
CABLE	1.5 m extendable with 6.3 mm mono jack connector and stripped ends for contact closure using push button to activate priority or chimes Unbalanced line	-
WEIGHT	0.8 kg	0.8 kg
COMPATIBILITY	For priority through contact closure in FONESTAR amplifiers, mods. MAZ-4160/MAZ-4480	-

DYNAMIC MICROPHONES

GOOSENECK

Dynamic microphones with gooseneck.

	DM-28	FDM-635	FDM-639
CAPSULE	Unidirectional dynamics	Unidirectional dynamics	Cardioid unidirectional dynamic
RESPONSE	100-12,000 Hz	80-12,000 Hz	100-12,000 Hz
SENSITIVITY	-56 dB (V/Pa) at 1 kHz	-54 dB (V/Pa) at 1 kHz	-55 dB (V/Pa) at 1 kHz
IMPEDANCE	600 Ω	600 Ω	500 Ω
POWER SWITCH	On/off	-	-
CONNECTOR	3 m fixed cable with a 6.3 mm mono jack connector	XLR male	XLR male
HEIGHT	Total: 42 cm with sturdy 14 mm Ø gooseneck, adaptable to table stands or microphone stands with 5/8" standard thread	Total: 51 cm with 8.5 mm Ø gooseneck, adaptable to DJ mixer tables, XLR microphone bases, etc.	Total: 41 cm with tube and gooseneck, adaptable to DJ mixer tables, XLR microphone bases, etc.
WEIGHT	0.4 kg	0.22 kg	0.1 kg
ACCESSORIES	-	-	-



CONDENSER MICROPHONES

HAND-HELD

FONESTAR

Optimised for speech pick-up, it delivers a highly intelligible sound and ensures clear speech transmission with low feedback due to its unidirectional pattern. Condenser microphones have higher pick-up sensitivity. They also require Phantom power to operate. This microphone has two ways of powering it, via phantom power from the input of a mixer or with an AA battery. It has an XLR connector for balanced lines, allowing long cable distances without noise induction.

Its robust, high quality design provides reliability and long life in general applications.

It incorporates microphone stand and 4.5 m balanced cable with XLR female to XLR male connectors.



FCM-451B **N!**

CAPSULE	Unidirectional electret condenser
RESPONSE	100-16,000 Hz
SENSITIVITY	-31 dB (V/Pa) at 1 kHz
IMPEDANCE	200 Ω
POWER SWITCH	On/off
CONNECTOR	XLR male
POWER SUPPLY	Phantom 44 to 52 V DC or 1 battery 1.5 V LR6-AA
WEIGHT	0.12 kg
ACCESSORIES	Microphone stand 4.5 m balanced cable with XLR female to XLR male connectors

CONDENSER MICROPHONES

DESKTOP

Electret condenser desktop microphones. Recommended for conference systems, public address, churches, etc.



FCM-764

FEATURES Unidirectional electret condenser desktop microphone. Switch and LED power ring.



FCM-766

FEATURES Unidirectional electret condenser desktop microphone.



FCM-767

FEATURES Microphone with gooseneck and tube. Extra length, specially for speaking while standing up or from a certain distance from the table or lectern.

FEATURES	FCM-764	FCM-766	FCM-767
CAPSULE	Unidirectional electret condenser	Unidirectional electret condenser	Unidirectional electret condenser
RESPONSE	60-17,000 Hz	80-18,000 Hz	80-18,000 Hz
SENSITIVITY	-37 dB (V/Pa) at 1 kHz	-51 dB (V/Pa) at 1 kHz	-51 dB (V/Pa) at 1 kHz
IMPEDANCE	250 Ω	100-600 Ω	100-600 Ω
POWER SWITCH	On/off	Micro: on/off and PTT/PTL Filter: bass cut/flat response	Micro: on/off and PTT/PTL Filter: bass cut/flat response
INDICATOR LIGHTS	Operation light ring.	Operation LED indicator	Operation LED indicator
CONNECTORS	XLR male Balanced line	Mini XLR male Balanced line	Mini XLR male Balanced line
PHANTOM	22 to 52 V DC	11 to 52 V DC	11 to 52 V DC
CABLE	-	5 m with mini female XLR to male XLR connectors Balanced line	5 m with mini female XLR to male XLR connectors Balanced line
HEIGHT	Total: 40.5 cm with shock-resistant desktop base, tube, gooseneck and capsule.	Total: 32 cm with shock-resistant desktop base, tube, 2 gooseneck sections and capsule	Total: 48 cm with shock-resistant desktop base, tube and gooseneck
WEIGHT	1.5 kg	0.7 kg	0.6 kg
ACCESSORIES	Windshield foam	Windshield foam	Windshield foam

CONDENSER MICROPHONES

HIGH DIRECTIVITY

High directivity microphones with hypercardioid electret condenser capsule.
Designed to minimize feedback. Minimum visual effect.



FCM-752

FEATURES	High directivity microphone. Great performance to feedback ratio.
CAPSULE	Hypercardioid electret condenser
RESPONSE	50-16,000 Hz
SENSITIVITY	-34 dB \pm 3 dB (V/Pa) at 1 kHz
IMPEDANCE	250 Ω
POWER SWITCH	-
INDICATOR LIGHTS	-
CONNECTORS	XLR male Unbalanced line
PHANTOM	48 V DC
SWITCHES	Level: 0 dB \pm 2dB Filter: bass cut/flat response
CABLE	-
HEIGHT	Total: 32 cm with flexo Adaptable to micro XLR bases, etc..
COLOUR	White
WEIGHT	0.1 kg
ACCESSORIES	Windshield foam

CONDENSER MICROPHONES

GOOSENECK

Electret condenser microphones with gooseneck.

GM-4

FCM-728

CAPSULE	Unidirectional electret condenser	Unidirectional electret condenser
RESPONSE	50-18,000 Hz	50-18,000 Hz
SENSITIVITY	-50 dB (V/Pa) at 1 kHz	-48 dB (V/Pa) at 1 kHz
IMPEDANCE	1,000 Ω	1,000 Ω
CONNECTOR	XLR male Balanced line	3.5 m fixed cable with 3.5 mm mono jack connector
PHANTOM	9 to 52 V DC	1.5 to 9 V DC
HEIGHT	Total: 63 cm with 8 mm \emptyset gooseneck, adaptable to XLR mic. bases, etc.	Total: 58 cm with 8 mm \emptyset gooseneck and screw-on base Suitable for buses, trucks etc.
WEIGHT	0.2 kg	0.2 kg
ACCESSORIES	Windshield foam	Windshield foam

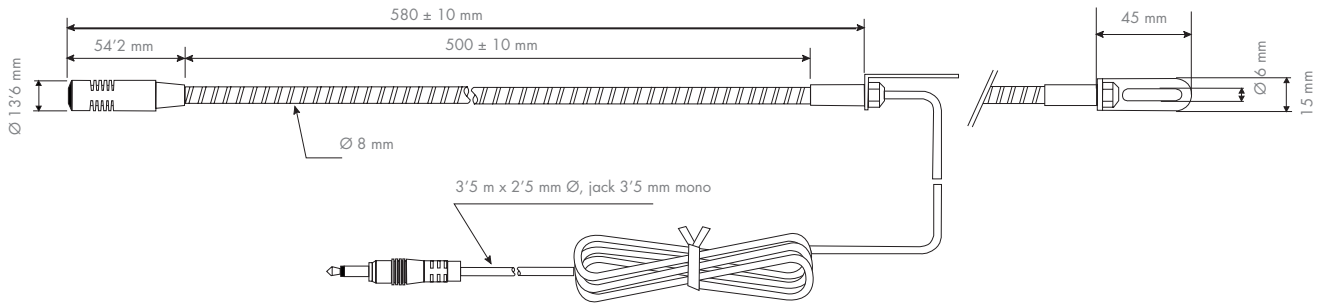


GM-4



FCM-728

FCM-728



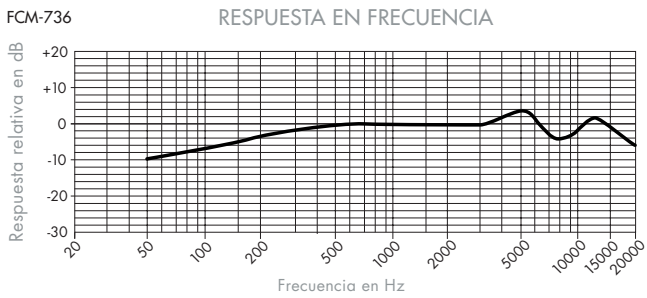
	FCM-734	FCM-735
CAPSULE	Unidirectional cardioid electret condenser	Unidirectional cardioid electret condenser High quality sound with wide frequency response
RESPONSE	80-16,000 Hz	30-18,000 Hz
SENSITIVITY	-43 dB (V/Pa) at 1 kHz	-45 dB ±3 dB (V/Pa) at 1 kHz
IMPEDANCE	500 Ω	250 Ω
CONNECTOR	XLR male Balanced line	XLR male Balanced line
PHANTOM	9 to 52 V DC	22 to 48 V DC
HEIGHT	Total: 42 cm with tube and gooseneck, adaptable to XLR micro bases, etc.	Total: 45 cm with tube and flexo Adaptable to micro XLR bases, etc..
WEIGHT	0.1 kg	0.1 kg



	FCM-736
CAPSULE	Unidirectional electret condenser
RESPONSE	80-16,000 Hz
SENSITIVITY	-43 dB (V/Pa) at 1 kHz
IMPEDANCE	200 Ω
POWER SWITCH	-
INDICATOR LIGHTS	Operation light ring.
CONNECTORS	XLR male Balanced line
PHANTOM	9 to 52 V DC
HEIGHT	Total: 43 cm with tube and gooseneck, adaptable for conference systems, XLR microphone bases, etc.
WEIGHT	0.1 kg
ACCESSORIES	Windshield foam



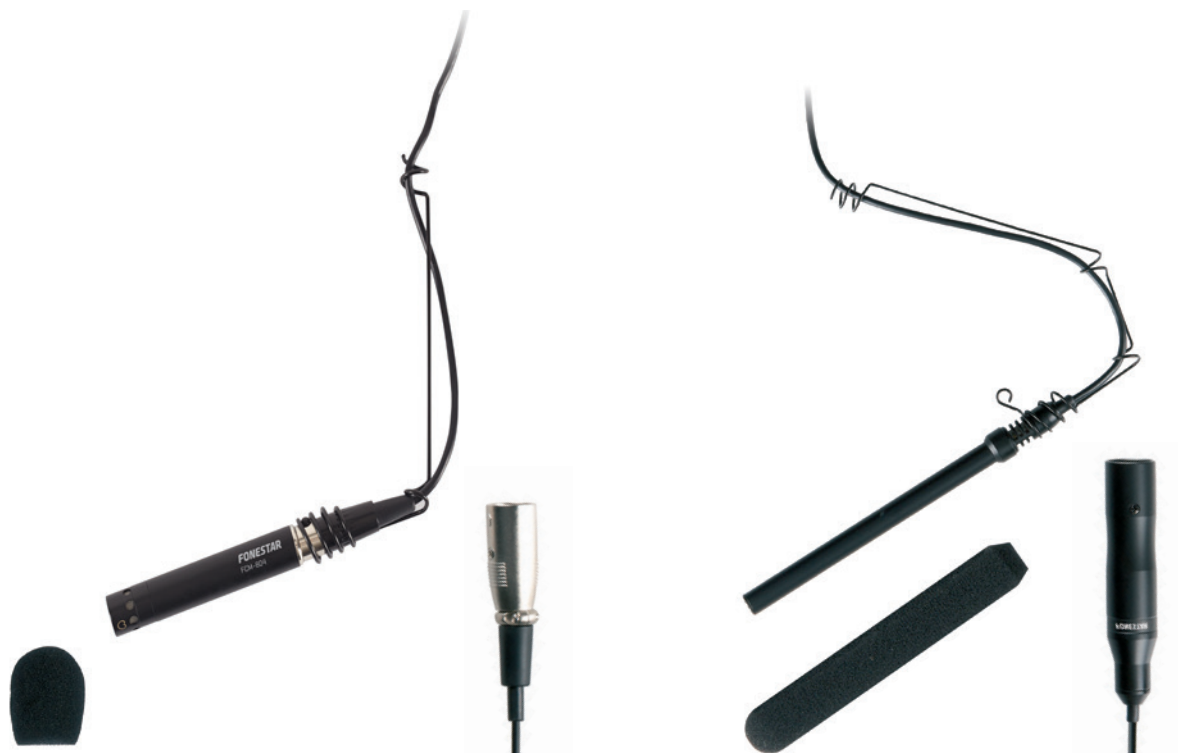
FCM-736



FCM-736
The light ring is only switched off by removing the phantom power. The FONESTAR mods desktop bases. RS-162, RS-165, RS-169, the RS-9XLR microphone stand and the RA-72 adapter do not turn off the light ring even though they do cut off the audio.

CONDENSER MICROPHONES SUSPENSION FOR HANGING

Hanging electret condenser microphones for stages, choirs, etc.



FCM-804

FEATURES

Hanging electret condenser microphones for stages, choirs, etc.
Ambient sound pick-up.
Minimal visual impact.
Stainless steel hanger.
Anti-reflecting black finish.

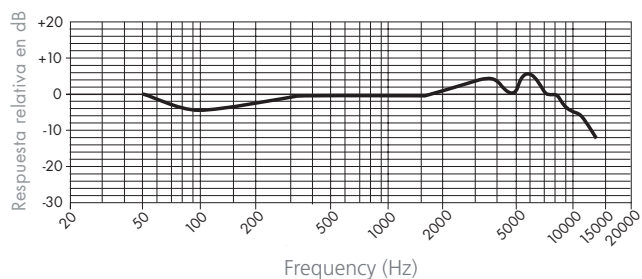
FCM-812

Hanging microphone with hypercardioid directivity, especially for environments that are noisy or where the microphone is located far from the sound source, for stages, choirs, etc.
Ambient sound pick-up.
Minimal visual impact.
Stainless steel hanger.
Anti-reflecting black finish.

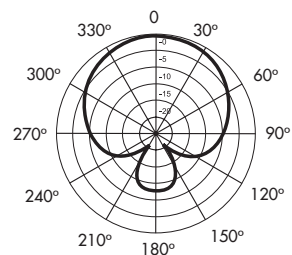
CAPSULE	Unidirectional cardioid electret condenser	Hypercardioid unidirectional electret condenser.
RESPONSE	50-18,000 Hz	50-16,000 Hz
SENSITIVITY	-38 dB \pm 3 dB (V/Pa) at 1 kHz	-34 dB \pm 3 dB (V/Pa) at 1 kHz
IMPEDANCE	250 Ω \pm 30% at 1 kHz	250 Ω \pm 30% at 1 kHz
CONNECTOR	9.5 m cable with mini female XLR to male XLR connectors	9.5 m fixed cable with male XLR connector (with preamplifier)
PHANTOM	9 to 52 V DC	9 to 52 V DC
DIMENSIONS	12 mm \varnothing x 65 mm length	8 mm \varnothing x 121 mm length
WEIGHT	0.2 kg	0.2 kg
ACCESSORIES	Protective case, hanging mount and windshield foam	Protective case, hanging mount and windshield foam

FCM-812

FREQUENCY RESPONSE



POLAR DIAGRAM



CONDENSER MICROPHONES BOUNDARY

Electret condenser boundary surface microphones

FONESTAR



BM-704PH-6M

FEATURES	Ultra slim boundary microphone for use on tables, walls, etc. Sharp sound pick-up.
CAPSULE	Unidirectional cardioid electret condenser
RESPONSE	30-20,000 Hz
SENSITIVITY	-34 dB (V/Pa)
IMPEDANCE	130 Ω
INDICATOR LIGHTS	Operation LED indicator
CONNECTORS	Mini male XLR output
PHANTOM	11 to 52 V DC
CABLES	6 m with mini female XLR to male XLR connectors Balanced line
DIMENSIONS	90 x 16 x 115 mm depth
COLOUR	Black
WEIGHT	0.28 kg



Electret condenser boundary microphone with tactile switch and LED power indicator. Selectable directivity pattern and power mode. Stylish design and robust construction. Non-slip rubber base. High quality sound.

BM-709

FEATURES	Ultra slim boundary microphone for use on tables, walls, etc. Sharp sound pick-up. Tactile power switch with LED power indicator.
CAPSULE	Electret condenser Selectable directivity pattern: omnidirectional, sub-cardioid, cardioid, super-cardioid and bidirectional
RESPONSE	50-15,000 Hz
SENSITIVITY	-32 dB ±3 dB (V/Pa)
IMPEDANCE	200 Ω
POWER SWITCH	Micro: on/off by touch Filter: bass cut/flat response Initial state: on/off Operation: PTT/PTL
INDICATOR LIGHTS	LED power indicator
CONNECTORS	Mini male XLR output
PHANTOM	48 V DC
CABLE	3 m with mini female XLR to male XLR connectors Balanced line
DIMENSIONS	92.5 x 26 x 100 mm depth.
COLOUR	Black
WEIGHT	0.1 kg

CONDENSER MICROPHONES PHANTOM POWER SUPPLIES

48 V phantom power supply for condenser microphones that require phantom power for operation. With this power supply it is possible to use condenser microphones at the inputs of a mixer or amplifier without phantom power.

PH-3

FEATURES	48 V phantom power supply.
INPUTS	2 mic., female XLR
OUTPUTS	2 mic., male XLR
PHANTOM	48 V DC ±2 V
POWER SUPPLY	230/115 V AC, 3.5 W
DIMENSIONS	182 x 46 x 118 mm depth
WEIGHT	0.8 kg



CONDENSER MICROPHONES PHANTOM POWER SUPPLIES

Phantom power supply Provides 48 V phantom power to condenser microphones. Through means of this power supply, condenser microphones can be used on inputs from a mixer or amplifier that does not have phantom power. For live shows, performances, press rooms, etc.



PH-5 **N!**

FEATURES	48 V phantom power supply.
INPUT	1 mic, XLR female
OUTPUT	1 mic, XLR male
PHANTOM	48 V DC
POWER SUPPLY	12 V DC, 1 A including adapter
DIMENSIONS	90 x 39 x 103 mm depth
WEIGHT	0.3 kg



CONDENSER MICROPHONES SURFACE INSTALLATION

Electret condenser microphones for surface assembly.

FCM-431

FEATURES Omnidirectional microphone for surface assembly.
Sharp sound pick-up.
For use in conferences, churches, congresses, studios, casinos,
Ideal for situations where the microphone should go unnoticed.

CAPSULE	Omnidirectional electret condenser, water-resistant
RESPONSE	20-20,000 Hz
SENSITIVITY	-43 dB (V/Pa) at 1 kHz
IMPEDANCE	250 Ω
CONNECTORS	XLR male Balanced line
PHANTOM	9 to 52 V DC
DIMENSIONS	30 mm \varnothing x 75 mm 23 mm \varnothing installation hole Maximum mounting surface thickness 55 mm
COLOUR	Black
WEIGHT	0.1 kg
ACCESSORIES	Nut and washer for surface assembly



CONDENSER MICROPHONES WITH ADAPTER

FONESTAR

Electret condenser clip-on microphones with adapter for dynamic microphone input.



	FCM-400	FCM-410	FCM-626	FCM-627
FEATURES	Condenser microphone and powered adapter with preamplifier and power supply for use in dynamic microphone inputs.	Condenser microphone and adapter with pre-circuit and power supply for use on dynamic microphone inputs.	Condenser microphone and adapter with pre-circuit and power supply for use on dynamic microphone inputs.	Condenser microphone and adapter with pre-circuit and power supply for use on dynamic microphone inputs.
CAPSULE	Omnidirectional electret condenser	Omnidirectional electret condenser	Omnidirectional electret condenser	Unidirectional electret condenser
RESPONSE	50-18,000 Hz	30-18,000 Hz	100-14,000 Hz	80-18,000 Hz
SENSITIVITY	-45 dB (V/Pa) at 1 kHz	-45 dB (V/Pa) at 1 kHz	-42 dB (V/Pa) at 1 kHz	-36 dB (V/Pa) at 1 kHz
IMPEDANCE	1,000 Ω	1,000 Ω	1,800 Ω	2,000 Ω
POWER SWITCH	-	On/off	-	-
POWER SUPPLY	1.5 V 1 x LR-44 battery	1.5 V 1 x LR-44 battery	1.5 V 1 x LR6-AA battery	1.5 V 1 x LR6-AA battery
CABLE	6 m with 3.5 mm mono jack connector	6 m with 3.5 mm mono jack connector	5 m with 6.3 mm mono jack connector	5 m with 3.5 mm mono jack connector
WEIGHT	-	-	0.1 kg	0.1 kg
ACCESSORIES	Protective case Tie clip Jack 3.5 mm mono to jack 6.3 mm mono adapter Windshield foam Battery	Protective case Tie clip Jack 3.5 mm mono to jack 6.3 mm mono adapter Windshield foam Battery	Tie clip Windshield foam	Tie clip Windshield foam

USB MICROPHONES

HAND-HELD AND DESKTOP

Microphones with USB cable for direct connection to PC.



FDM-1090U

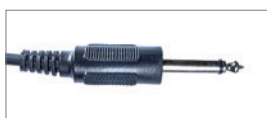
FEATURES Handheld supercardioid unidirectional dynamic microphone. Self-installing drivers. Cable with USB connector for direct connection to PC.

CAPSULE	Unidirectional supercardioid dynamics
RESPONSE	100-15,000 Hz
SENSITIVITY	-54 dB (V/Pa) at 1 kHz
IMPEDANCE	400 Ω
POWER SWITCH	On/off
CABLE	3.5 m with USB A male connector
WEIGHT	0.3 kg
HEIGHT	-
ACCESSORIES	Microphone stand

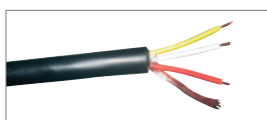
COMMUNICATIONS MICROPHONES

HAND-HELD

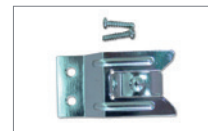
Hand-held communications microphones. PTT (push-to-talk) function, version with on/off push button and version with dual-circuit on/off push button and contact closure.



MCD-364



MCD-364-P



MCD-364

FEATURES	Communications microphone.
CAPSULE	Omnidirectional dynamic
RESPONSE	100-6,000 Hz
SENSITIVITY	-68 dB (V/Pa) at 1 kHz
IMPEDANCE	500 Ω to 1 kHz
PUSH BUTTON	Push-to-Talk (PTT) feature
CABLE	2 m extendable with 6.3 mm mono jack connector
DIMENSIONS	55 x 75 x 30 mm depth
WEIGHT	0.2 kg
ACCESSORIES	Hanger on the back, metal screwable clip mount with screws

MCD-364-P

FEATURES	Communications microphone.
CAPSULE	Omnidirectional dynamic
RESPONSE	100-6,000 Hz
SENSITIVITY	-68 dB (V/Pa) at 1 kHz
IMPEDANCE	500 Ω to 1 kHz
PUSH BUTTON	Double circuit: PTT function (push to talk) and contact closure
CABLE	2 m extendable stripped ends with 1 shielded audio conductor and 2 conductors for contact closure
DIMENSIONS	55 x 75 x 30 mm depth
WEIGHT	0.2 kg
ACCESSORIES	Hanger on the back, metal screwable clip mount with screws

MICROPHONE CAPSULES CERAMIC



FEATURES

2202

Ceramic capsule. Suitable for the manufacture and replacement of radiotelephones, etc. Immune to extreme temperature and humidity.

RESPONSE	40-8,000 Hz
SENSITIVITY	-36 dB (V/Pa)
IMPEDANCE	1-3 MΩ
DIMENSIONS	44 mm Ø x 13 mm

MICROPHONE CAPSULES DYNAMIC



FEATURES

2204

Dynamic capsule. Suitable for the manufacture and replacement of dynamic microphones.

RESPONSE	100-10,000 Hz
SENSITIVITY	-58 dB (V/Pa) at 1 kHz
IMPEDANCE	600 Ω ±30%
DIMENSIONS	26 mm Ø x 14 mm

2215

Unidirectional dynamic capsule. Suitable for the manufacturing of and replacements for high quality dynamic microphones.

RESPONSE	50-13,500 Hz
SENSITIVITY	-53 dB (V/Pa) at 1 kHz
IMPEDANCE	600 Ω
DIMENSIONS	29 mm Ø x 23 mm

MICROPHONE CAPSULES ELECTRET CONDENSER



FEATURES

2213

Omnidirectional electret condenser capsule. Welded contacts.

2214

Omnidirectional electret condenser capsule. Contact with pins.

RESPONSE	50-10,000 Hz	50-10,000 Hz
SENSITIVITY	-40 dB (V/Pa) at 1 kHz	-40 dB (V/Pa) at 1 kHz
IMPEDANCE	300-5,000 Ω maximum	300-5,000 Ω maximum
POWER SUPPLY	1.5 a 15 V	1.5 a 15 V
DIMENSIONS	10 mm Ø x 6.8 mm	10 mm Ø x 6.8 mm
OPTIONAL	2230: insulating protector	2230: insulating protector

ACCESSORIES

MICROPHONE STANDS

Adjustable microphone stand with boom arm. It can be adjusted to any position, allowing the microphone to be positioned optimally according to its use. Lightweight allows easy transportation. Robust and resilient construction. For live performances, conferences, religious events, etc.



MS-131N **NI**

FEATURES	Microphone stand with 3-legged folding base and 75 cm giraffe rod. Standard 3/8" thread and 5/8" thread adapter. Metal reinforced base.
HEIGHT	Adjustable 100 to 155 cm to the rod in horizontal position
ROD	75 cm
COLOUR	Black
WEIGHT	1.5 kg

Adjustable microphone stand

RS-9XLR

FEATURES	Microphone stand with round base. Especially for gooseneck microphones with XLR connector. Input and output via XLR connectors. Metal base. Metal height adjustment piece.
POWER SWITCH	On/off
HEIGHT	Adjustable from 90 to 140 cm
COLOUR	Black
WEIGHT	4.2 kg
COMMENTS	Does not switch off the FCM-736 LED ring.



RS-9XLR + FCM-735



on/off



ACCESSORIES

ANTI-VIBRATION BASE

Anti-vibration microphone base for flush mounting.

FONESTAR



FEATURES

RS-74

Anti-vibration base with 3-point screw-on flushing mount. With 19 mm Ø hole for FONESTAR mods. FCM-734, FCM-736 and similar. Installation hole 51 mm Ø.

COLOUR

Black

ACCESSORIES

5/8" STANDARD THREAD BASES

Base for desktop microphone.



AD-12

FEATURES

3-point screw-on base, round, 4.5 cm Ø, for microphones and goosenecks. 5/8" standard thread.

HEIGHT

-

COLOUR

Black

WEIGHT

—



MS-200N

Desktop base with 3 folding legs. 5/8" standard thread.

8 cm

Black

0.1 kg



RS-616N NI

16 cm Ø desktop base. 3/8" standard thread and 3/8" to 5/8" adapter. Metal base.

Adjustable from 24 to 40 cm

Black

1 kg



RA-8 + FCM-740

RA-8

FEATURES

Microphone clamp base for microphones with standard 5/8" thread. Maximum thickness of table or lectern: 40 mm

POWER SWITCH

-

COLOUR

Black

WEIGHT

0.2 kg

COMMENTS

-

XLR

XLR

5/8"



RA-72

Adapter XLR female to XLR male for gooseneck microphones, with standard 5/8" thread for microphone stand or microphone base. XLR connector output.

On/off

Black

0.1 kg

Does not turn off the LED ring on the FCM-736 microphone

ACCESSORIES

XLR CONNECTOR BASES

Desktop microphone bases with XLR connector.



RS-161

FEATURES

Shock-resistant desktop base. Especially for gooseneck microphones with XLR connector. Input and output via XLR connectors.

RS-163

4.5 cm Ø round table base with 3 holes for screws. With XLR female connector for microphones and XLR plugs.

POWER SWITCH	-	-
COLOUR	Black	Black
WEIGHT	1.3 kg	-
COMMENTS	-	-



RS-165

FEATURES

Shock-resistant desktop base for dynamic or condenser microphone. Especially for gooseneck microphones with XLR connector. Input and output via XLR connectors.

RS-167

Anti-shock desktop base for gooseneck microphones with XLR connector. LED power indicator. Input and output via XLR connectors.

POWER SWITCH	On/off	On/off and PTT/PTL
COLOUR	Black	Black
WEIGHT	1.2 kg	1.2 kg
COMMENTS	FCM-736 microphone not supported	FCM-736 microphone not supported Phantom 24 to 48 V DC for circuit power supply and indicator light (48 V DC recommended)

Desktop base with on/off switch for dynamic or condenser microphone.

Condenser microphone power supply using phantom or batteries.

Electret condenser microphones can be used in dynamic microphone inputs.



RS-169

FEATURES

Desktop base for dynamic or condenser microphones with phantom or 3 V DC power supply. Switch and circuit which allows use of external phantom power supply or internal 3 V DC for electret condenser microphones. Electret condenser microphones can be used in dynamic microphone inputs. Especially for gooseneck microphones with XLR connector. Internal shock-resistant system. Input and output via XLR connectors.

CONTROLS

On/off switch
Microphone selector: dynamic, condenser with external phantom power or condenser with internal 3 V DC power supply.

POWER SUPPLY

3 V DC 2 x 1.5 V LR6-AA batteries

DIMENSIONS

110 x 40 x 150 mm depth

WEIGHT

1.4 kg

COMMENTS

Does not turn off the LED ring on the FCM-736 microphone

ACCESSORIES

5/8" STANDARD THREAD ADAPTERS

5/8" and 3/8" thread adapters for mic. mounts, stands or bases.

FONESTAR



AL-10

Adapter thread 3/8" female to standard thread 5/8" male with stop.



AL-11

Adapter 3/8" female thread to standard 5/8" male thread.



AL-12

Adapter thread 3/8" male to standard 5/8" female thread.

FEATURES	Adapter thread 3/8" female to standard thread 5/8" male with stop.	Adapter 3/8" female thread to standard 5/8" male thread.	Adapter thread 3/8" male to standard 5/8" female thread.
COLOUR	Chrome	Chrome	Chrome

ACCESSORIES

GOOSENECKS

Microphone goosenecks with 5/8" standard thread.

FEATURES

GN-6

15 cm long gooseneck. 5/8" standard thread.

GN-13

33 cm long gooseneck. 5/8" standard thread.

GN-19

48 cm long gooseneck. 5/8" standard thread.



ACCESSORIES

MISCELLANEOUS

Microphone accessories.



CLIP-2

FEATURES

Metal clip for miniature clip-on or tie microphones.
12mm Ø ring for microphones, with adjustable spring.
Black matt finish.



2346

Metal support clip for communications microphones.



2356

FEATURES

Retractable cable for replacement communications microphones.

CABLE

5 tinsel and shielding conductors

LENGTH

2 m when extended

ACCESSORIES

CLIP HOLDERS

Microphone holder with 5/8" standard thread.



YH-4

YH-6

YH-11

YH-16

FEATURES

YH-4	Microphone holder. Clip system. 18-40 mm Ø. Standard 5/8" metallic thread. For all types of microphones.
YH-6	Microphone holder. 26 mm Ø. Standard 5/8" metallic thread. For hand-held microphones
YH-11	Microphone holder. Flexible rubber. 30-36 mm Ø. Standard 5/8" metallic thread. For hand-held microphones
YH-16	Microphone holder. Flexible rubber. 32-40 mm Ø. Standard 5/8" metallic thread. Especially for wireless microphones

ACCESSORIES

WINDSHIELD FOAM

Wind-shield foam ball for microphones.

FONESTAR



	FEATURES	DIAMETER	HEIGHT	OTHERS
YS-1-GR	Wind-shield foam ball.	Inside: 20 mm Exterior: 40 mm	55 mm	Bulk 10 u.
YS-2-GR	Wind-shield foam ball.	Inside: 22 mm Exterior: 45mm	65 mm	-
YS-3-GR	Wind-shield foam ball.	Inside: 40 mm Exterior: 54 mm	60 mm	-
YS-4-GR	Wind-shield foam ball.	Inside: 32 mm Exterior: 42 mm	60 mm	-
YS-6-GR	Wind-shield foam ball.	Inside: 42 mm Exterior: 60 mm	70 mm	-
YS-7-GR	Wind-shield foam ball.	Inside: 28 mm Exterior: 42 mm	60 mm	-
YS-8	Windshield foam	Inside: 20 mm Exterior: 39 mm	150 mm	Use in tubular microphones
YS-9-GR	Miniature wind-shield foam ball.	Inside: 10 mm Exterior: 21 mm	30 mm	Use in miniature microphones
YS-10-GR	Wind-shield foam ball.	Inside: 12 mm Exterior: 28 mm	53 mm	-
YS-12-GR	Wind-shield foam ball.	Inside: 9 mm Exterior: 30 mm	45 mm	For use on FCM-734, FCM-736, FCM-738, FCM-764 and similar microphones
YS-14-GR	Wind-shield foam ball.	Inside: 6 mm Exterior: 20 mm	20 mm	Use in miniature microphones
YS-16-GR	Wind-shield foam ball.	Inside: 10 mm Exterior: 20 mm	23 mm	Bulk 10 u. For use on FCM-16 and similar microphones
YS-17-GR	Wind-shield foam ball.	Inside: 15 mm Exterior: 28 mm	31 mm	Bulk 10 u. For use on FDM-621, FCM-611 and similar microphones

ACCESSORIES

WINDSHIELD FOAM

Wind-shield foam ball for microphones.



	COLOUR	DIAMETER	HEIGHT
YS-15-AM	Yellow	Inside: 55 mm Exterior: 80 mm	100 mm
YS-15-AZ	Blue	Inside: 55 mm Exterior: 80 mm	100 mm
YS-15-NE	Black	Inside: 55 mm Exterior: 80 mm	100 mm
YS-15-RO	Red	Inside: 55 mm Exterior: 80 mm	100 mm



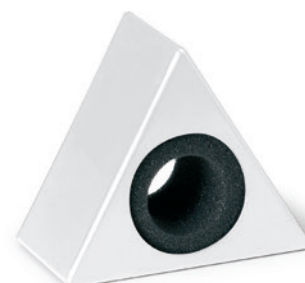
ACCESSORIES

ADVERTISING ACCESSORIES

Hand-held microphone stands, with flexible foam inside for a perfect and easy fit. They allow the use of the microphone in the hand or leaning on the table, showing the advertising message at all times. Recommended for press conferences, interviews, etc.



MT-3



MT-3B

	MT-3	MT-3B
FEATURES	Triangle for hand-held microphone. Flexible foam interior	Triangle for hand-held microphone. Flexible foam interior
DIMENSIONS	82 x 56 x 94 mm depth Adjustable internal Ø from 33 to 44 mm	82 x 56 x 94 mm depth Adjustable internal Ø from 33 to 44 mm
COLOUR	Black	White
OPTIONAL	Supply and placement of logos possible (PLEASE ENQUIRE)	Supply and placement of logos possible (PLEASE ENQUIRE)



MT-4B

FEATURES	Cube for hand-held microphone. Flexible foam interior
DIMENSIONS	57 x 56 x 57 mm depth Adjustable internal Ø from 33 to 44 mm
COLOUR	White
OPTIONAL	Supply and placement of logos possible (PLEASE ENQUIRE)



224 RACKS AND TRANSPORT FURNITURE

226 Racks

226 19" floor standing rack cabinets

230 19" wall rack cabinets

232 Transport furniture flight cases

232 19" rack flight cases

236 Trunks and cases

238 Mixers

239 Microphone stands

240 Loudspeakers

241 TV Screens

242 Trolley

242 Briefcases

246 Accessories

246 Rack 19"

RACKS AND TRANSPORT FURNITURE



RACKS

19" FLOOR STANDING RACK CABINETS

Rack 19" cabinet for sound, data, communications, etc.



FRA-42600S

FEATURES

19" metallic rack cabinet.
 Transparent tempered glass front door with lock, key and possibility to change the opening direction.
 Removable side and rear panels, with lock and key.
 Thermostat and 4 ceiling fans (230 V AC).
 Wheels with brake and feet.
 Possibility of lateral union with cabinets model: FRA-47800W, FRA-42800W and FRA-42600S.
 Black enamel finish.

FRA-42600S-SKD

19" metallic rack cabinet.
 Transparent tempered glass front door with lock, key and possibility to change the opening direction.
 Removable side and rear panels, with lock and key.
 Thermostat and 4 ceiling fans (230 V AC).
 Wheels with brake and feet.
 Possibility of lateral union with cabinets model: FRA-47800W, FRA-42800W and FRA-42600S.
 Black enamel finish.
 It is delivered disassembled with instructions and mounting accessories.

CAPACITY	42 U of 19" rack = 187 cm	42 U of 19" rack = 187 cm
DIMENSIONS	With wheels: 800 x 2070 x 600 mm depth Sheet metal thickness: 1.2 mm Thickness of rail guides: 2 mm	With wheels: 800 x 2070 x 600 mm depth Sheet metal thickness: 1.2 mm Thickness of rail guides: 2 mm
COLOUR	Black (RAL 9011)	Black (RAL 9011)
WEIGHT	96 Kg	96 Kg
ACCESSORIES	Screws and nuts for device installation	Screws and nuts for device installation



FEATURES

FRA-42800W

19" metallic rack cabinet. Transparent tempered glass front door with lock, key and possibility to change the opening direction. Removable side and rear panels, with lock and key. Thermostat and 4 ceiling fans (230 V AC). Wheels with brake and feet. Possibility of lateral union with cabinets model: FRA-47800W, FRA-42800W and FRA-42600S. Black enamel finish.

FRA-42800W-SKD

19" metallic rack cabinet. Transparent tempered glass front door with lock, key and possibility to change the opening direction. Removable side and rear panels, with lock and key. Thermostat and 4 ceiling fans (230 V AC). Wheels with brake and feet. Possibility of lateral union with cabinets model: FRA-47800W, FRA-42800W and FRA-42600S. Black enamel finish. It is delivered disassembled with instructions and mounting accessories.

FRA-47800W

19" metallic rack cabinet. Transparent tempered glass front door with lock, key and possibility to change the opening direction. Removable side and rear panels, with lock and key. Thermostat and 4 ceiling fans (230 V AC). Wheels with brake and feet. Possibility of lateral union with cabinets model: FRA-47800W, FRA-42800W and FRA-42600S. Black enamel finish.

FRA-47800W-SKD

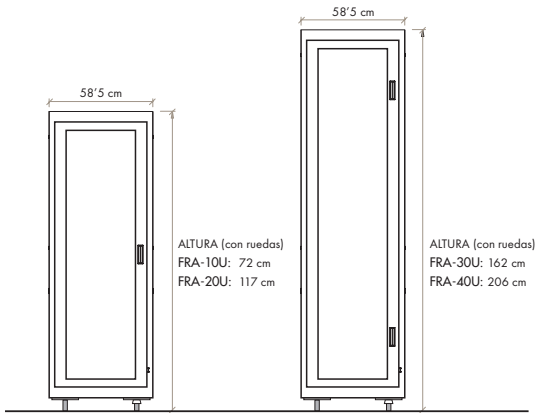
19" metallic rack cabinet. Transparent tempered glass front door with lock, key and possibility to change the opening direction. Removable side and rear panels, with lock and key. Thermostat and 4 ceiling fans (230 V AC). Wheels with brake and feet. Possibility of lateral union with cabinets model: FRA-47800W, FRA-42800W and FRA-42600S. Black enamel finish. It is delivered disassembled with instructions and mounting accessories.

CAPACITY	42 U of 19" rack = 187 cm	42 U of 19" rack = 187 cm	47 U of 19" rack = 209 cm	47 U of 19" rack = 209 cm
DIMENSIONS	With wheels: 800 x 2070 x 800 mm depth Sheet metal thickness: 1.2 mm Thickness of rail guides: 2 mm	With wheels: 800 x 2070 x 800 mm depth Sheet metal thickness: 1.2 mm Thickness of rail guides: 2 mm	With wheels: 800 x 2350 x 800 mm depth Sheet metal thickness: 1.2 mm Thickness of rail guides: 2 mm	With wheels: 800 x 2350 x 800 mm depth Sheet metal thickness: 1.2 mm Thickness of rail guides: 2 mm
COLOUR	Black (RAL 9011)	Black (RAL 9011)	Black (RAL 9011)	Black (RAL 9011)
WEIGHT	110 Kg	110 Kg	130 Kg	130 Kg
ACCESSORIES	Screws and nuts for device installation	Screws and nuts for device installation	Screws and nuts for device installation	Screws and nuts for device installation

RACKS

19" FLOOR STANDING RACK CABINETS

19" rack cabinets for sound devices, lighting, data, communications, etc.



FEATURES

FRA-10U

19" metallic rack cabinet, transparent acrylic door with lock and key, wheels with brakes, feet and 2 fans (230 V AC) in the ceiling. Removable side and rear panels. Grommet on the side. Black enamel finish.

FRA-20U

19" metallic rack cabinet, transparent acrylic door with lock and key, wheels with brakes, feet and 2 fans (230 V AC) in the ceiling. Removable side and rear panels. Grommet on the side. Black enamel finish.

FRA-30U

19" metallic rack cabinet, transparent acrylic door with 2 locks and keys, wheels with brakes, feet and 2 fans (230 V AC) in the ceiling. Removable side and rear panels. Grommet on the side. Black enamel finish.

FRA-40U

19" metallic rack cabinet, transparent acrylic door with 2 locks and keys, wheels with brakes, feet and 2 fans (230 V AC) in the ceiling. Removable side and rear panels. Grommet on the side. Black enamel finish.

CAPACITY	10 U 19" rack = 44.5 cm	20 U of 19" rack = 89 cm	30 U 19" rack = 133.5 cm	40 U of 19" rack = 178 cm
DIMENSIONS	With wheels: 58.5 x 72 x 58.5 cm depth.	With wheels: 58.5 x 117 x 58.5 cm depth.	With wheels: 58.5 x 162 x 58.5 cm depth.	With wheels: 58.5 x 206 x 58.5 cm depth.
ACCESSORIES	Feet, 6 supports, 1 tray, nuts and bolts for assembly	Feet, 10 supports, 1 tray, nuts and bolts for assembly	Feet, 12 supports, 1 tray, nuts and bolts for assembly	Feet, 14 supports, 1 tray, nuts and bolts for assembly
WEIGHT	41 kg	56 kg	70 kg	84 kg
OPTIONAL	T-FRA: thermostat to activate the fans based on temperature			



	FP-12U	FP-18U
FEATURES	Metal 19" rack cabinet, transparent acrylic door with lock and key, open back and wheels with brake. Black enamel finish.	Metal 19" rack cabinet, transparent acrylic door with lock and key, open back and wheels with brake. Black enamel finish.
CAPACITY	12 U 19" rack = 53.4 cm	18 U 19" rack = 80.1 cm
DIMENSIONS	With wheels: 55.5 x 69 x 45 cm depth.	With wheels: 55.5 x 95 x 50 cm depth.
WEIGHT	23.5 kg	28.8 kg
ACCESSORIES	12 angle supports, nuts and bolts for equipment assembly	18 angle supports, nuts and bolts for equipment assembly



	FRL-12U	FRL-18U	FRL-24U	FRL-15U-F	FRL-24U-F
FEATURES	Metal 19" rack cabinet, open back/front and wheels with brakes. Black enamel finish.	Metal 19" rack cabinet, open back/front and wheels with brakes. Black enamel finish.	Metal 19" rack cabinet, open back/front and wheels with brakes. Black enamel finish.	Metal 19" rack cabinet, open front/back and wheels. Black enamel finish. Extra depth, 58 cm total.	Metal 19" rack cabinet, open front/back and wheels. Black enamel finish. Extra depth, 58 cm total.
CAPACITY	12 U 19" rack = 53.4 cm	18 U 19" rack = 80.1 cm	24 U 19" rack = 106.8 cm	15 U 19" rack = 66.8 cm	24 U 19" rack = 106.8 cm
DIMENSIONS	With wheels: 55.5 x 69 x 45 cm depth.	With wheels: 55.5 x 97 x 45 cm depth.	With wheels: 55.5 x 124 x 45 cm depth.	With wheels: 56 x 83 x 58 cm depth	With wheels: 56 x 123 x 58 cm depth
WEIGHT	19.7 kg	25 kg	28.3 kg	28.5 kg	36 kg

RACKS

19" WALL MOUNT RACK CABINET

19" wall mount rack cabinet for sound, data, communication equipment, etc.



	FRW-4504	FRW-4506	FRW-4509
FEATURES	19" wall mount rack cabinet. Front opening with lock and key. Made of steel. Black enamel finish.	19" wall mount rack cabinet. Front opening with lock and key. Made of steel. Black enamel finish. It is delivered disassembled with instructions and mounting accessories.	19" wall mount rack cabinet. Front opening with lock and key. Made of steel. Black enamel finish. It is delivered disassembled with instructions and mounting accessories.
CAPACITY	4 U 19" rack = 17.8 cm	6 U 19" rack = 26.7 cm	9 U of 19" rack = 40 cm
MAXIMUM BORNE WEIGHT	35 kg	40 kg	45 kg
DIMENSIONS	Rail thickness: 1.2 mm Shell thickness and others: 1.1 mm Exterior: 60 x 28 x 46 cm depth In between guides: 48.3 cm wide x 34 cm depth Useful depth: 410 mm	Rail thickness: 1.2 mm Shell thickness and others: 1.1 mm Exterior: 33 x 60 x 45 cm depth In between guides: 48.3 cm wide x 34 cm depth Useful depth: 395 mm	Rail thickness: 1.2 mm Shell thickness and others: 1.1 mm Exterior: 46.5 x 60 x 45 cm depth. In between guides: 48.3 cm wide x 34 cm depth Useful depth: 395 mm
WEIGHT	11.3 kg	14 kg	17 kg
ACCESSORIES	8 screws and 8 nuts for equipment assembly	Screws and bolts for equipment assembly	Screws and bolts for equipment assembly
OPTIONAL	FRB-1200: 19" rack tray (it is necessary to move the 19" racks to adapt it to the dimensions of the trays) FRW-FAN: rack fan	FRB-1200: 19" rack tray (it is necessary to move the 19" racks to adapt it to the dimensions of the trays) FRW-FAN: rack fan	FRB-1200: 19" rack tray (it is necessary to move the 19" racks to adapt it to the dimensions of the trays) FRW-FAN: rack fan



FRWL-4 **N!**

FEATURES	19" rack side wall cabinet. Top opening Made of steel. Black enamel finish.
CAPACITY	4 U 19" rack = 17.8 cm
MAXIMUM BORNE WEIGHT	30 kg
DIMENSIONS	Rail thickness: 1.7 mm Shell thickness and others: 1.6 mm Exterior: 54.2 x 57.7 x 23.3 cm depth In between guides: 46.5 cm wide x 49.9 cm depth Useful depth: 499 mm
WEIGHT	11 kg
ACCESSORIES	Screws and bolts for equipment assembly



FRW2-6006

FRW2-6009

FEATURES	19" wall mount rack cabinet. Front and rear opening with locks and keys. Made of steel. Black enamel finish.	19" wall mount rack cabinet. Front and rear opening with locks and keys. Made of steel. Black enamel finish.
CAPACITY	6 U 19" rack = 26.6 cm	9 U of 19" rack = 40 cm
MAXIMUM BORNE WEIGHT	45 kg	50 kg
DIMENSIONS	Rail thickness: 1.2 mm Shell thickness and others: 1.1 mm Exterior: 33 x 61.5 x 60.5 mm depth In between guides: 48.3 cm wide x 45 cm deep Useful depth: 545 mm	Rail thickness: 1.2 mm Shell thickness and others: 1.1 mm Exterior: 46.5 x 61.5 x 60.5 cm depth In between guides: 48.3 cm wide x 45 cm deep Useful depth: 545 mm
WEIGHT	16 kg	20 kg
ACCESSORIES	Screws and bolts for equipment assembly	Screws and bolts for equipment assembly

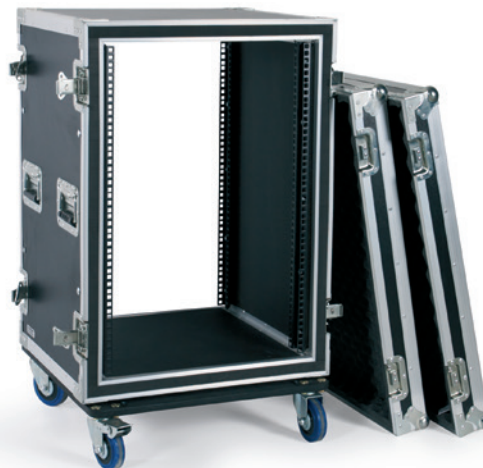
TRANSPORT FURNITURE FLIGHT CASES

19" RACK FLIGHT CASES

19" rack antishock for sound and lighting devices.



FRS-120



FRS-160

FEATURES

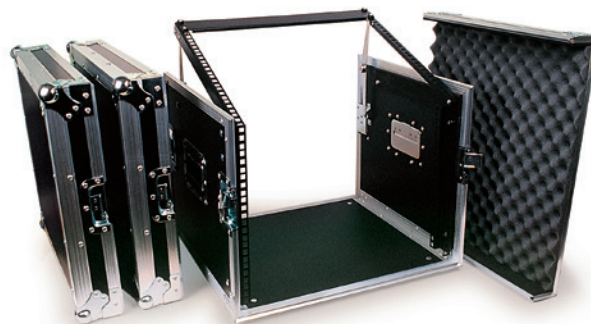
Shockproof 19" rack manufactured in coated plywood.
Impact protection based on 25 mm high density foam.
Front and rear lids with hermetic seal, transport handles, wheels with brake, protective metal corner protectors.
Robust manufacture for transporting and protecting the equipment inside.
Black finish
Extra depth, 60 cm total.

CAPACITY	12 U 19" rack = 53.4 cm	16 U 19" rack = 71.2 cm
DIMENSIONS	Exterior (with wheels): 60 x 80 x 77 cm depth Interior: 46.5 x 55 x 57 cm depth.	Exterior (with wheels): 60 x 97.5 x 77.5 mm depth Interior: 48.5 x 71.2 x 57 cm depth
WEIGHT	41.4 kg	47 kg
ACCESSORIES	Screws and bolts for equipment assembly	Screws and bolts for equipment assembly

19" racks with top mount for sound devices, DJ mixer, mixers, lighting devices, etc.



FRM-104



FRM-108

FEATURES

19" rack with top mount for audio and lighting equipment.
In coated plywood. Lids with foam protection and hermetic seal, carrying handles, rubber feet and metal protective corner pieces.
Robust manufacture for transporting and protecting the equipment inside.
Black finish

CAPACITY	4 U 19" rack = 17.8 cm 9 U 19" rack = 40.1 cm support	8 U 19" rack = 35.6 cm 9 U 19" rack = 40.1 cm support
DIMENSIONS	Exterior: 53 x 29.5 x 62 cm depth Interiors (top space): 48.5 x 7.5 x 40.1 cm depth Interiors (lower space): 48.5 x 17.8 x 45 cm depth	Exterior: 53 x 47 x 62 cm depth Interiors (top space): 48.5 x 15 x 40.1 cm depth. Interiors (lower space): 48.5 x 35.6 x 45 cm depth
WEIGHT	14.5 kg	18.5 kg
ACCESSORIES	Screws and bolts for equipment assembly	Screws and bolts for equipment assembly

19" with top mount for sound devices, DJ mixer, mixers, lighting devices, etc.



FRM-130

FRM-170

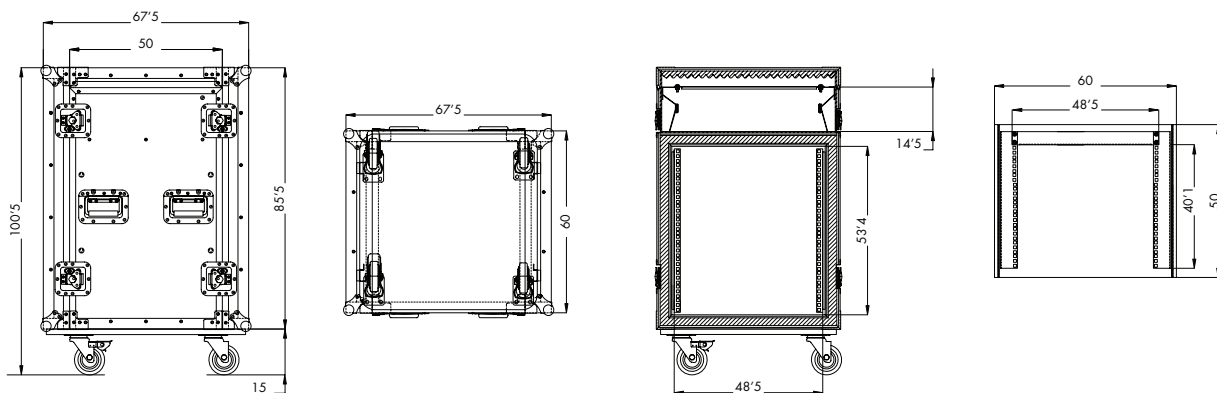
FEATURES

19" rack with top mount for audio and lighting equipment. In coated plywood. Impact protection based on 25 mm high density foam. Front and rear lids with hermetic seal, transport handles, wheels with brake, protective metal corner protectors.

Robust manufacture for transporting and protecting the equipment inside.
Black finish

CAPACITY	12 U 19" rack = 53.4 cm 9 U 19" rack = 40.1 cm support	16 U 19" rack = 71.2 cm 9 U 19" rack = 40.1 cm support
DIMENSIONS	Exterior (with wheels): 60 x 100.5 x 67.5 mm depth Interiors (top space): 48.5 x 14.5 x 40.1 cm depth Interiors (lower space): 48.5 x 53.4 x 50 cm depth	Exterior (with wheels): 60 x 118.5 x 67.5 mm depth Interiors (top space): 48.5 x 14.5 x 40.1 cm depth Interiors (lower space): 48.5 x 71.2 x 50 cm depth
WEIGHT	45 kg	51 kg
ACCESSORIES	Screws and bolts for equipment assembly	Screws and bolts for equipment assembly

FRM-130



TRANSPORT FURNITURE FLIGHT CASES

19" RACK FLIGHT CASES

19" shockproof racks with 2 covers [front and back] convertible into tables and top mount for sound and lighting devices.



FRM-135



FRM-135



FRM-175

FRM-175

FEATURES

19" shockproof rack with 2 covers (front and rear) convertible into tables.

In coated plywood.

Impact protection based on 25 mm high density foam.

Front and rear lids with hermetic seal, transport handles, wheels with brake, protective metal corner protectors.

Robust manufacture for transporting and protecting the equipment inside.

Black finish

CAPACITY	12 U 19" rack = 53.4 cm 9 U 19" rack = 40.1 cm support	16 U 19" rack = 71.2 cm 9 U 19" rack = 40.1 cm support
DIMENSIONS	Exterior (with wheels): 60 x 100.5 x 67.5 mm depth Interiors (top space): 48.5 x 14.5 x 40.1 cm depth Interiors (lower space): 48.5 x 53.4 x 50 cm depth Tables: 85.5 x 60 cm depth, height 80 cm	Exterior (with wheels): 60 x 119 x 67.5 mm depth Interiors (top space): 48.5 x 14.5 x 40.1 cm depth Interiors (lower space): 48.5 x 71.2 x 50 cm depth Tables: 103.5 x 60 cm depth, height 98 cm
WEIGHT	51.6 kg	59 kg
ACCESSORIES	Screws and bolts for equipment assembly	Screws and bolts for equipment assembly

19" racks for sound and lighting equipment. 19" racks for sound and lighting equipment.



FRE-202



FRE-204

FRE-202

FRE-204

FEATURES

19" rack manufactured in coated plywood, lids with foam protection and hermetic seal, carrying handles, rubber feet and metal protective corner pieces.

Robust manufacture for transporting and protecting the equipment inside.

Black finish

CAPACITY	2 U 19" rack = 8.9 cm	4 U 19" rack = 17.8 cm
DIMENSIONS	Exterior: 52 x 12.5 x 40 cm depth Interior: 48.5 x 8.9 x 26.5 cm depth	Exterior: 54 x 23 x 63 cm depth Interior: 48.5 x 17.8 x 42 cm depth
WEIGHT	4.5 kg	12 kg
ACCESSORIES	Screws and bolts for equipment assembly	Screws and bolts for equipment assembly

19" racks for sound and lighting equipment.



FRE-206

FEATURES	19" rack for sound and lighting equipment. Manufactured in coated plywood, open front/rear, carrying handles, rubber feet and metal protective corner pieces. Robust manufacture for transporting and protecting the equipment inside. Black finish
CAPACITY	8 U 19" rack = 35.6 cm
DIMENSIONS	Exterior: 53 x 39.5 x 49 cm depth Interior: 48.5 x 35.6 x 45 cm depth
WEIGHT	10 kg
ACCESSORIES	Screws and bolts for equipment assembly



FRE-208

FEATURES	19" rack with top section. Manufactured in coated plywood, top lid with hermetic seal, open front/rear, carrying handles, wheels with brake and metal protective corner pieces. Robust manufacture for transporting and protecting the equipment inside. Black finish
CAPACITY	12 U 19" rack = 53.4 cm
DIMENSIONS	Exterior (with wheels): 52.5 x 91 x 50.5 cm depth. Interior (lid): 48.5 x 17 x 46.5 cm depth. Interiors (furniture): 48.5 x 53.4 x 46.5 cm depth
WEIGHT	22 kg
ACCESSORIES	Screws and bolts for equipment assembly



FRE-210

FEATURES	19" rack with transparent door, and key lock. Manufactured in coated plywood, door opening to the left or right, open rear, carrying handles, wheels with brake and metal protective corner pieces. Robust manufacture for transporting and protecting the equipment inside. Black finish
CAPACITY	16 U 19" rack = 71.2 cm
DIMENSIONS	Exterior (with wheels): 53 x 90.2 x 54 cm depth Interior: 48.5 x 71.2 x 45 cm depth
WEIGHT	22.5 kg
ACCESSORIES	Screws and bolts for equipment assembly

TRANSPORT FURNITURE FLIGHT CASES

TRUNKS AND CASES

Flight transport trunk for various components.



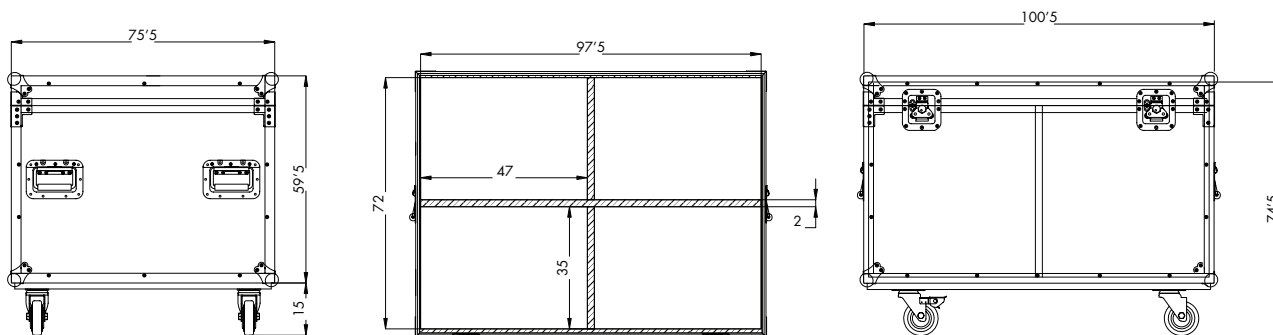
FRC-263
FRC-265



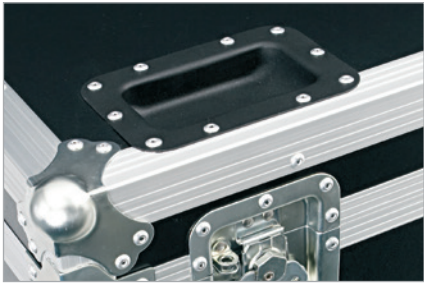
FRC-269

FEATURES	FRC-263	FRC-265	FRC-269
PARTITIONS	-	-	4 internal partitions measuring 47 x 35 x 55 cm high
DIMENSIONS	Exterior (with wheels): 110.5 x 65 x 55.5 cm depth. Interior: 106.5 x 46.5 x 51.5 cm depth	Exterior (with wheels): 121 x 75.5 x 61 cm depth Interior: 116.5 x 56.5 x 56.5 cm depth	Exterior (with wheels): 100.5 x 74.5 x 75.5 cm depth Interior: 97 x 55.5 x 72 cm depth
WEIGHT	33.4 kg	40.5 kg	44.5 kg

FRC-269



Stackable flight case transport trunk.



FRC-262A

FEATURES

Stackable flight trunk with small reinforced trays in the lid to stack trunks with wheels. Manufactured in coated plywood and lined with foam, lid with and hermetic seal, carrying handles, wheels with brake and metal protective corner covers. Robust manufacture for transporting and protecting various types of materials. Black finish

DIMENSIONS

Exterior (with wheels): 110.5 x 65 x 55.5 cm depth. Interior: 106.5 x 46.5 x 51.5 cm depth

WEIGHT

33 kg

Flight transport case for various components.



FRC-261

FEATURES

Transport case. Manufactured in coated plywood, with 4 sliding drawers and a door with hermetic seal, carrying handles and protective metal corner pieces. Robust manufacture for transporting and protecting various types of materials. Black finish

DIMENSIONS

Exterior (with wheels): 53 x 91 x 59.5 mm depth. Interior (small drawer): 44.5 x 12 x 46 cm depth. Interior (small drawer): 44.5 x 22.5 x 46 cm depth

WEIGHT

46 kg

TRANSPORT FURNITURE FLIGHT CASES

MIXERS

Flight transport case for mixers and various components.



FRC-290

FRC-290

FEATURES

19" carrying case for professional mixer or various components. Compatible with Allen & Heath Mix Wiz and similar mixers. In coated plywood. Mount for 19" rack. Lid with hermetic seal, carrying handles, rubber feet and metal protective corner pieces. Robust manufacture for transporting and protecting the equipment inside. Black finish

CAPACITY	12 U 19" rack = 53.4 cm
DIMENSIONS	Exterior: 68 x 24 x 54 cm depth Interior: 65 x 10.5 x 53' 4 cm depth
WEIGHT	12.1 kg
ACCESSORIES	Nuts and bolts for equipment assembly

TRANSPORT FURNITURE FLIGHT CASES

MICROPHONE STANDS

FONESTAR

Flight trunk for microphone stands or a variety of equipment.



FRC-270

FEATURES

Flight trunk for microphone stands or a variety of equipment. Manufactured in coated plywood with foam lining, lid with hermetic seal, carrying handles, rubber feet, wheels and protective metal corners. Robust manufacture for transporting and protection of microphone stands or various materials. Black finish

PARTITIONS

-

DIMENSIONS

Exterior (with wheels): 122.5 x 44 x 42.5 cm depth.
Interior: 117 x 37.5 x 37 cm depth

TRANSPORT FURNITURE FLIGHT CASES

LOUDSPEAKERS

Speaker transport case.



FAL-24D
FAL-30D



FEATURES

FAL-12

Speaker transport case. Manufactured in coated plywood and lined with foam, lid with and hermetic seal, carrying handles, wheels with brake and metal protective corner covers. Robust manufacture for transporting and protecting various types of materials. Black finish
Suitable for transporting 12" speakers with the most common dimensions on the market (e.g. ex. FONESTAR speaker mods. SB-3421, SB-3520, SB-3612, ASB-12300, ASB-12150U etc).

FAL-15

Speaker carrying case. Manufactured in coated plywood and lined with foam, lid with and hermetic seal, carrying handles, wheels with brake and metal protective corner covers. Robust manufacture for transporting and protecting various types of materials. Black finish
Suitable for transporting 15" speakers with the most common dimensions on the market (e.g. ex. FONESTAR speaker mods. SB-3432, SB-3530, SB-3615, ASB-15300, ASB-15180U etc).

FAL-24D

Carrying case with interior partition for 2 loudspeakers. Manufactured in coated plywood and lined with foam, lid with and hermetic seal, carrying handles, wheels with brake and metal protective corner covers. Robust manufacture for transporting and protecting various types of materials. Black finish
Suitable for transporting 2 x 12" speakers with the most common dimensions on the market (e.g. ex. FONESTAR speaker mods. SB-3421, SB-3520, SB-3612, ASB-12300, ASB-12150U etc).

FAL-30D

Carrying case with interior partition for 2 loudspeakers. Manufactured in coated plywood and lined with foam, lid with and hermetic seal, carrying handles, wheels with brake and metal protective corner covers. Robust manufacture for transporting and protecting various types of materials. Black finish
Suitable for the transport of 2 x 15" speakers with the most common dimensions on the market (e.g. FONESTAR speakers mods. SB-3432, SB-3530, SB-3615, ASB-15300, ASB-15180U etc)

DIMENSIONS	Exterior (with wheels): 50 x 89 x 45 cm depth Interior: 44 x 67 x 38.5 mm depth	Exterior (with wheels): 56 x 100 x 52 cm depth Interior: 50 x 77 x 45.5 mm depth	Exterior (with wheels): 87 x 88 x 50 cm depth Indoor (for each acoustic baffle): 38.5 x 67 x 44 cm depth.	Exterior (with wheels): 101 x 99.5 x 56 cm depth Indoor (for each speaker): 45.5 x 77 x 50 cm depth.
WEIGHT	21.8 kg	25.7 kg	40.2 kg	49 kg
ACCESSORIES	Extra foam sheet	Extra foam sheet	Extra foam sheets	Extra foam sheets

TRANSPORT FURNITURE FLIGHT CASES

FONESTAR

TV SCREENS

Transport cases for 2 TVs.



FPL-50D
FPL-52XL

FPL-50D

FEATURES

Transport case for 2 TVs up to 50".
In coated plywood with foam lining. Internal divisions for 2 plasma screens with additional space on the side for 2 mounts or a variety of material. Hermetically closing lid, carrying handles, wheels with brakes and protective metal corner covers.
Robust construction.
Black finish

DIMENSIONS

Exterior: 132.5 x 97 x 55 cm depth.
Interiors (for each TV):
125.5 x 76.5 x 12 cm depth
Interiors (for each speaker):
95.5 x 76.5 x 10.5 cm depth

WEIGHT

66 kg

ACCESSORIES

Extra foam with velcro to adapt partitions

FPL-52XL

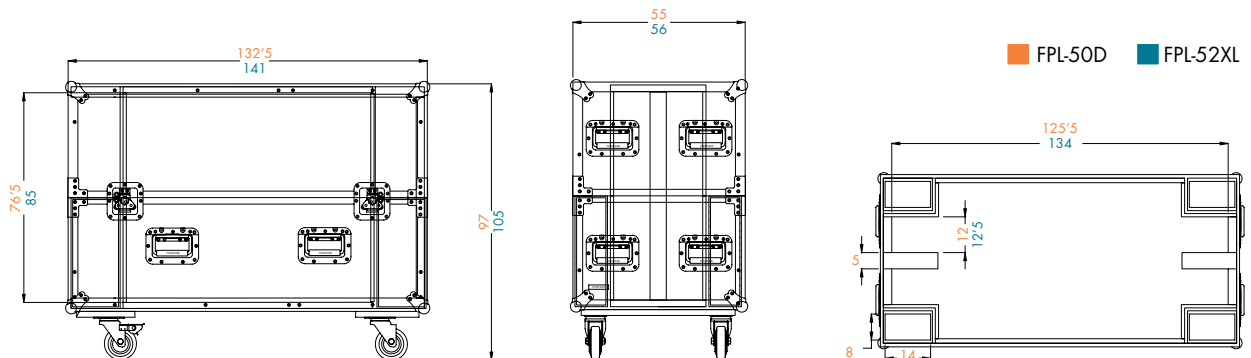
Transport case for 2 TVs up to 50".
In coated plywood with foam lining. Internal divisions for 2 plasma screens with additional space on the side for 2 mounts or a variety of material. Lid with hermetic seal, carrying handles, wheels with brakes and protective metal corner covers.
Robust construction.
Black finish

Exterior: 141 x 105 x 56 cm depth
Interiors (for each TV):
134 x 85 x 12.5 mm depth
Interiors (for each speaker):
97.5 x 85 x 10.5 cm depth.

65 kg

Extra foam with velcro to adapt partitions

FPL-50D & FPL-52XL



TRANSPORT FURNITURE FLIGHT CASES

TROLLEY

Transport case with trolley. Reinforced construction.



FRT-101

FEATURES	Case with trolley for transport and protection of various materials. In coated plywood. Tough wheels, protective metal corner covers and lid with hermetic seal. Robust construction. Black finish
DIMENSIONS	Exterior: 71.5 x 50 x 40 cm depth. Interior: 67.5 x 37 x 36 cm depth.
WEIGHT	16.5 kg

TRANSPORT FURNITURE FLIGHT CASES

BRIEFCASES

Briefcase for various components.



FRT-113

FEATURES	Briefcase with 4 internal partitions. In coated plywood. Lid with hermetic seal, carrying handle and metal protective corner covers. Robust manufacture for transporting and protecting various types of materials. Black finish
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FRT-113M

Briefcase for transporting wireless FONESTAR microphone systems, mods. MSH-883, MSH-887, MSH-823 and MSH-828 (not included). In coated plywood. Lid with hermetic seal, carrying handle and metal protective corner covers. Internal foam structure providing maximum support and protection for the professional wireless FONESTAR microphone system. Robust construction. Black enamel finish.

FRT-115

Transport case with 3 internal partitions for CDs. In coated plywood. Lid with hermetic seal, carrying handle and metal protective corner covers. Robust manufacture for transporting and protecting CDs and various materials. Black finish

CAPACITY	-	For receiver, hand-held microphone, clip-on microphone, antennas, cables, AC/DC adapters, batteries and hand-held microphone covers	-
DIMENSIONS	Exterior: 39.5 x 11.5 x 29.5 cm depth Interior: 37 x 10 x 28.3 cm depth with 4 partitions	Exterior: 39.5 x 11.5 x 29.5 cm depth Interior: 37 x 10 x 28.3 cm depth with foam	Exterior: 44.5 x 19 x 38 cm depth. Interior: 42.5 x 16.5 x 36 cm depth with 3 partitions of 13.5 x 15 x 36 cm depth for CD, etc.
WEIGHT	2.1 kg	2.1 kg	3 kg



FRT-117



FRT-116



FRT-119

	FRT-116	FRT-117	FRT-119
FEATURES	<p>Transport briefcase. Manufactured in coated plywood with foam lining. Lid with hermetic seal, carrying handle and metal protective corner covers. Robust manufacture for transporting and protecting various types of materials. Black finish</p>	<p>Detachable carrying case for 16 microphones and accessories. In coated plywood. Lid with hermetic seal, carrying handle and metal protective corner covers. Robust construction for transporting and protecting microphones and various materials. Aluminium finish.</p>	<p>Transport briefcase. In coated plywood. Lid with hermetic seal, carrying handle and metal protective corner covers. Robust manufacture for transporting and protecting various types of materials. Black finish</p>
DIMENSIONS	<p>Exterior: 56.5 x 19.5 x 45 cm depth Interior: 53 x 16.5 x 41.5 mm depth</p>	<p>Exterior: 47 x 32 x 31 cm depth Interior: 44.5 x 30 x 28.5 cm depth.</p>	<p>Exterior: 63 x 30 x 44 cm depth Interior: 60 x 26 x 41 cm depth</p>
WEIGHT	6.9 kg	5.1 kg	6 kg

TRANSPORT FURNITURE FLIGHT CASES

BRIEFCASES

Waterproof cases.

IP-67

FMW-260

FEATURES

Waterproof carrying case.
 Compact, robust and stackable. Shock, dust and water resistant.
 Hermetically closing lid, pressure valve and foldable carrying handle.
 IP-67 protection rating.
 Prepared for keylock.
 Stainless steel metal parts.
 PP construction for transport and protection of various materials.
 Accepted as hand luggage.
 Pre-cut foam.
 Black finish

MAXIMUM BORNE WEIGHT	0.5 kg
MAXIMUM CAPACITY	5.72 L 5720 cm ³
DIMENSIONS	Exterior: 28.8 x 13 x 26 cm depth. Interior: 26 x 11 x 20 cm depth
WEIGHT	1.4 kg



IP-67

FMW-410

FEATURES

Waterproof carrying case.
 Compact, robust and stackable. Shock, dust and water resistant.
 Hermetically closing lid, pressure valve and foldable carrying handle.
 IP-67 protection rating.
 Prepared for keylock.
 Stainless steel metal parts.
 ABS construction for transport and protection of various materials.
 Accepted as hand luggage.
 Pre-cut foam.
 Black finish

MAXIMUM BORNE WEIGHT	25 kg	40 kg
MAXIMUM CAPACITY	22.65 L 22650 cm ³	30.55 L 30550 cm ³
DIMENSIONS	Exterior: 44.4 x 19.9 x 36.9 cm depth. Interior: 28.8 x 18.2 x 29.8 cm depth.	Exterior: 48.4 x 20.9 x 41.9 cm depth. Interior: 45.2 x 19.2 x 35.2 cm depth.
MAXIMUM CAPACITY	3.2 kg	3.8 kg

IP-67

FMW-450



IP-67

FMW-520T

FEATURES

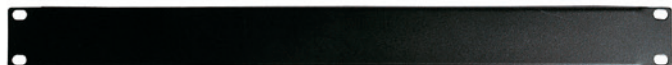
Waterproof trolley case.
Compact, robust and stackable. Shock, dust and water resistant.
Hermetically closing lid, pressure valve and foldable carrying handle.
IP-67 protection rating.
Prepared for keylock.
Stainless steel metal parts.
PP construction for transport and protection of various materials.
Silent wheels and extendable handle up to 35 mm.
Accepted as hand luggage by most airlines.
Pre-cut foam.
Black finish

MAXIMUM BORNE WEIGHT	40 kg
MAXIMUM CAPACITY	27.8 L 27840 cm3
DIMENSIONS	Exterior: 55.9 x 22.9 x 36 cm depth Interior: 52.5 x 18.3 x 29.2 cm depth
WEIGHT	5.3 kg

ACCESSORIES

RACK 19"

Front panels for 19" racks and rack cabinets.



FRP-10



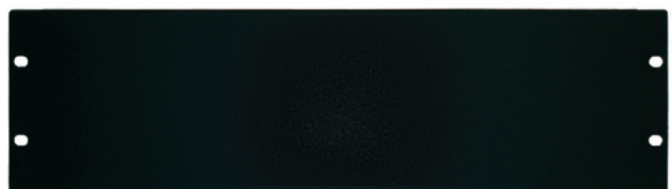
FRP-10VEN



FRP-11



FRP-11VEN



FRP-12



FRP-12VEN

	FRP-10	FRP-10VEN	FRP-11	FRP-11VEN	FRP-12	FRP-12VEN
FEATURES	1U front panel for 19" rack. Black finish	1U front panel with ventilation slots for 19" rack. Black finish	2U front panel for 19" rack. Black finish	2U front panel with ventilation slots for 19" rack. Black finish	3U front panel for 19" rack. Black finish	3U front panel with ventilation slots for 19" rack. Black finish
DIMENSIONS	483 x 44.5 kg	483 x 44.5 kg	483 x 89 mm	483 x 89 mm	483 x 133.5 kg	483 x 133.5 kg
WEIGHT	0.4 kg	0.3 kg	0.6 kg	0.5 kg	0.8 kg	0.7 kg
ACCESSORIES	Nuts and bolts for assembly	Nuts and bolts for assembly	Nuts and bolts for assembly	Nuts and bolts for assembly	Nuts and bolts for assembly	Nuts and bolts for assembly



	FRP-13	FRP-18	FRP-19	FRP-20
FEATURES	4 U front panel for 19" rack. Black finish	5 U front panel for 19" rack. Black finish	6 U front panel for 19" rack. Black finish	7 U front panel for 19" rack. Black finish
DIMENSIONS	483 x 178 mm	483 x 221 mm	483 x 267 mm	483 x 310 mm
WEIGHT	1 kg	1 kg	1.2 kg	1.3 kg
ACCESSORIES	Nuts and bolts for assembly			

Cable grommet panel for 19" cabinets and rack cabinets.



	FRP-1PC
FEATURES	1 U grommet panel for 19" rack. Black finish
DIMENSIONS	483 x 44.5 kg
WEIGHT	0.5 kg
ACCESSORIES	Nuts and bolts for assembly

Machined front panels, for 19" cabinets and rack cabinets.



FRP-31XLR



FRP-32SPK



FRP-33M

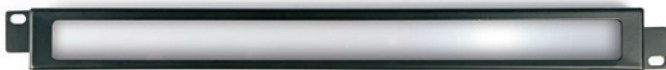


FRP-34MC

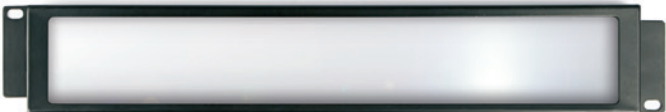


	FRP-31XLR	FRP-32SPK	FRP-33M	FRP-34MC
FEATURES	1 U machined panel for 19" rack, to install 12 XLR sockets. Black finish	2 U machined panel for 19" rack, to install 4 speaker connector sockets. Black finish	2 U machined panel for 19" rack, to install 8 WP series modular connection panels and Legrand Mosaic II series electric devices. Covers for empty spaces included. Black finish	3 U machined panel for 19" rack, to install 24 standard uni-polar symmetrical DIN rail electric devices. Covers for empty spaces included. Black finish
DIMENSIONS	483 x 44.5 mm	483 x 89 mm	483 x 89 mm height Window: 360 x 40 mm height	483 x 133.5 x 60 mm depth Window: 430 x 45 mm high
WEIGHT	0.3 kg	0.6 kg	0.7 kg	1.6 kg
ACCESSORIES	Nuts and bolts for assembly	Nuts and bolts for assembly	Covers, nuts and bolts for assembly	Covers, nuts and bolts for assembly

Front panels for 19" racks and rack cabinets.



FRP-41G



FRP-42G



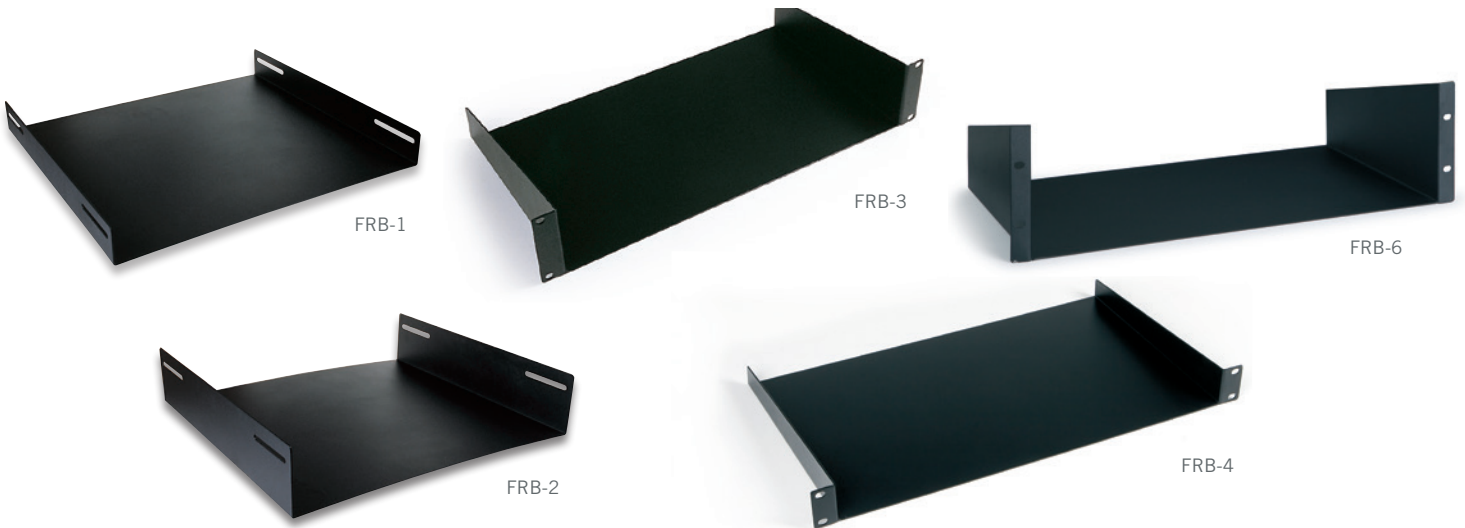
FRP-45M

	FRP-41G	FRP-42G	FRP-45M
FEATURES	Control cover panel with 1 U window for 19" rack.	Control cover panel with 2 U window for 19" rack	Control cover panel with 1 U metal grille for 19" rack.
DIMENSIONS	483 x 44.5 x 25 mm depth	483 x 89 x 25 mm depth	483 x 44.5 x 25 mm depth
WEIGHT	0.5 kg	0.6 kg	0.5 kg
ACCESSORIES	Nuts and bolts for assembly	Nuts and bolts for assembly	Nuts and bolts for assembly

ACCESSORIES

RACK 19"

Trays for cabinets and furniture rack 19".



	FRB-1	FRB-2	FRB-3	FRB-4	FRB-6
FEATURES	Metal tray with lateral screwing for 1 U 19" rack. Especially for cabinets in the FONESTAR FRA, FRM and FRE series. Black finish	Metal tray with lateral screwing for 2 U 19" rack. Especially for cabinets in the FONESTAR FRA, FRM and FRE series. Black finish	Metal tray with front screwing, for 2 U 19" rack. Black finish	Metal tray with front screwing, for 1 U 19" rack. Black finish	Metal tray with front screwing, for 3 U 19" rack. Black finish
DIMENSIONS	455 x 44.5 x 420 mm depth Interior width: 453 mm	455 x 89 x 420 mm depth Interior width: 453 mm	483 x 89 x 255 mm depth Interior width: 442 mm	483 x 44.5 x 255 mm depth Interior width: 444 mm	483 x 133.5 x 255 mm depth Interior width: 444 mm
WEIGHT	2.7 kg	3.2 kg	1.8 kg	1.6 kg	2 kg
ACCESSORIES	Nuts and bolts for assembly	Nuts and bolts for assembly	Nuts and bolts for assembly	Nuts and bolts for assembly	Nuts and bolts for assembly

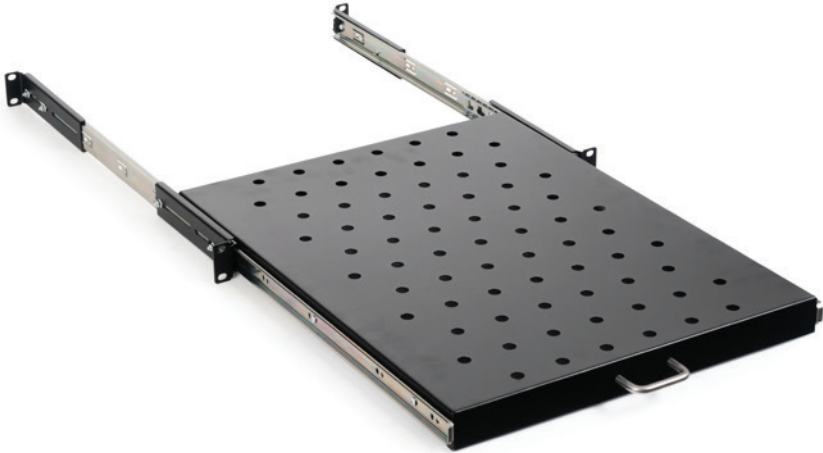


	FRB-1200	FRB-1300
FEATURES	Metal tray for 19" 1 rack U. Side screwable. With ventilation holes. Especially for FONESTAR FRW-4504, FRW-4506 and FRW-4509 furniture. Made of steel. Black finish	Metal tray for 19" 1 rack U. Side screwable. With ventilation holes. Especially for FONESTAR FRW-6009, FRW-6012, FRW-6015, FRW2-6006, FRW2-6009, FRW2-6012 and FRW2-6015 furniture (it is necessary to move the 19" racks to adapt it to the dimensions of the trays). Made of steel. Black finish
MAXIMUM BORNE WEIGHT	50 kg	60 kg
DIMENSIONS	Thickness: 1.2 mm 493 x 45 x 198 mm depth Interior width: 490 mm	Thickness: 1.2 mm 493 x 45 x 300 mm depth Interior width: 490 mm
WEIGHT	1.2 kg	1.7 kg

Sliding tray and drawers for 19" cabinets and rack cabinets.



	FRP-15	FRP-16
FEATURES	3 U metal drawer for 19" rack, lock with key, front fastening. Suitable for protecting microphones, accessories, etc. Black finish	6 U metal drawer for 19" rack, lock with key, front fastening. Suitable for protecting microphones, accessories, etc. Black finish
DIMENSIONS	435 x 133.5 x 350 mm depth	435 x 267 x 350 mm depth
WEIGHT	6.2 kg	9 kg
ACCESSORIES	Nuts and bolts for assembly	Nuts and bolts for assembly



	FRP-44D
FEATURES	Sliding metal tray with front fastening for 1 U 19" rack. Black finish
DIMENSIONS	Exterior: 483 x 44 x 585 mm depth Interior: 419 x 39 x 525 mm depth
WEIGHT	4 kg
ACCESSORIES	Nuts and bolts for assembly

ACCESSORIES

RACK 19"

Power strip unit for 19" racks and rack cabinets.



FRP-8



FRP-8M

FEATURES

FRP-8

1 U metal power strip unit for 19" rack.
8 bipolar sockets with schuko type ground connection.
On/off switch and safety guard for children.
1.8 m power cable of 3 x 1.5 mm² with schuko type plug.
PVC material.
Black finish
230 V, 3,500 W maximum, 16 A.

FRP-8M

1 U metal power strip unit for 19" rack.
8 bipolar sockets with schuko type ground connection.
On/off switch and safety guard for children.
1.8 m power cable of 3 x 1.5 mm² with schuko type plug.
Aluminium material.
Black finish
230 V, 3,500 W maximum, 16 A.

DIMENSIONS	483 x 44.5 x 48 mm depth	483 x 44.5 x 45 mm depth
WEIGHT	0.6 kg	0.8 kg

FRP-8MC14

FEATURES

1 U metal power strip unit for 19" rack.
8 bipolar sockets with schuko type ground connection.
On/off switch and safety guard for children.
1.8 m power cable of 3 x 1.5 mm² with C14 type plug.
Aluminium material.
Black finish
230 V, 3,500 W maximum, 10 A.



DIMENSIONS	483 x 44.5 x 45 mm depth
WEIGHT	0.8 kg



FRW-FAN

FEATURES Axial fan. Especially for FONESTAR furniture series FRW and FRW2.

POWER	30.8 W 2,600 r.p.m.
POWER SUPPLY	230 V AC
DIMENSIONS	120 x 120 x 40 mm
WEIGHT	0.6 kg
ACCESSORIES	4 screws for equipment assembly



VOUT-FRA

FEATURES Module 2 exhaust fans Installation on top of rack cabinet (OUT TOP)

POWER SUPPLY	230 V AC, 40 W
DIMENSIONS	298 x 45 x 150 mm
WEIGHT	1.7 kg

T-FRA

FEATURES Thermostat for 19" FONESTAR rack cabinets, FRA series. The required temperature can be selected between 0 and 60°, above which the 19" rack cabinet fan will be activated. Optimizes the fan, as it is activated only when needed. 19" rack mounting accessory included. On request, it can be supplied pre-installed on the top right or top left rears of the FONESTAR models: FRA-10U, FRA-20U, FRA-30U and FRA-40U.



Screw and cage nut.

FRP-17

FEATURES Bolt with plastic washer and cage nut for front assembly of equipment in 19" rack. Blister 30 u.



Wheels for cabinets and 19" rack furniture and transport castors.



FRP-23

FEATURES 4" Ø wheel for furniture 19" rack 13 cm height.

WEIGHT	0.7 kg
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FRP-24F

Similar to mod. FRP-23, with brake.

WEIGHT	1 kg
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252 AUDIOVISUAL SYSTEMS

254 Connection panels

254 Integrated

255 Modulators

259 Audio

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259 USB

260 Extensions

260 Adapters

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261 Splitters

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277 Modulators

278 DisplayPort

278 Adapters

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278 Adapters

279 Projection screens

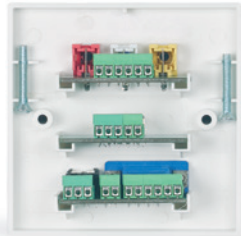
279 FA Series

AUDIOVISUAL SYSTEMS



CONNECTION PANELS INTEGRATED

Connection panel with VGA connectors, USB port, stereo audio and composite video.
Connection via terminal blocks to screw. Surface mounted box.



WPL-401

FEATURES	Integrated connection panel. Connection via terminal blocks to screw. Surface mounted box.
INPUTS	1 female VGA D15 1 female USB A port 1 composite video, RCA 1 stereo audio, 2 x RCA 1 stereo audio, 3.5 mm jack
COLOUR	White (RAL 9003)
DIMENSIONS	86 x 86 x 52 mm depth
WEIGHT	0.1 kg

WPL-403 N!

FEATURES	Multimedia connection box. Connection via female connectors. Use in multimedia classrooms, centralizes audio, video and data connections. Easy installation. Constructed of steel, connectors on the front.
INPUTS	1 female VGA D15 1 HDMI female 1 stereo audio, 3.5 mm jack 1 USB B
COLOUR	White (RAL 1013)
DIMENSIONS	130 x 50 x 123 mm depth
WEIGHT	0.5 kg



Integrated patch panel with VGA and 3.5 mm stereo jack connectors with window for 1 patch panel.
Connection via terminal blocks to screw. Compatible with modular connection panel system WP.

WP-61VJ

FEATURES	Integrated connection panel with window. Connection via terminal blocks to screw. Window for 1 connection panel.
INPUTS	1 female VGA D15 1 stereo audio, 3.5 mm jack
DIMENSIONS	86 x 86 x 24 mm depth
OPTIONAL	WP-62CJ: surface box



WP-62CJ

FEATURES	86 x 86 mm surface box. For WP-61VJ, SAM-306 zone controllers.
DIMENSIONS	60 mm between screws. 86 x 86 x 42 mm depth



Connection panel with two USB outputs with recharging function and plug for using the 230 V socket during recharging. Includes flip-down mount for mobile phone positioning.

WP-55SUC

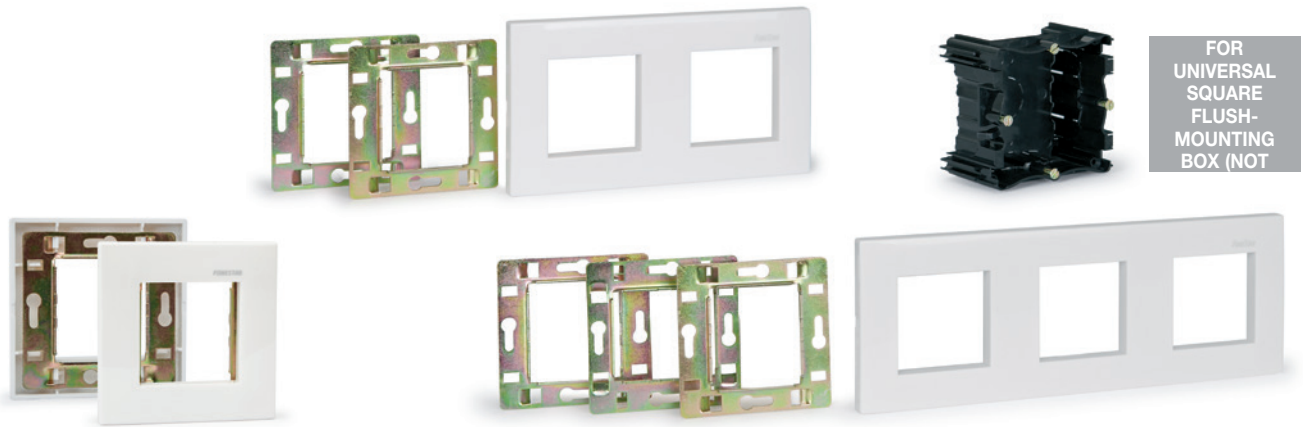
FEATURES	Integrated connection panel. 2 x USB chargers Two-pole socket outlet with ground connection, 16 A 230 V. For standard flush-mount box or surface. Connection via terminal blocks to screw.
OUTPUTS	5 V DC (2,400 mA)
CONNECTORS	2 x female USB A Schuko female, safety shutter
POWER SUPPLY	100-240 V CA
COLOUR	White (RAL 9003)
DIMENSIONS	86 x 86 x 46 mm depth



**CONNECTION PANELS
MODULAR**

Frames and chassis for installation in square universal flush box.

System of modular connection panels for installation of audiovisual equipment, classrooms, conference rooms, etc.



WP-89MCH

FEATURES	Frames and chassis for installation in square universal flush box. Window for 1 connection panel.
COLOUR	White (RAL 9003)
DIMENSIONS	80 x 80 mm

WP-150MCH

FEATURES	Frame and 2 chassis for installation in 2 european standard boxes. 2 windows for 2 connection panels.
COLOUR	White (RAL 9003)
DIMENSIONS	150 x 80 mm

WP-220MCH

FEATURES	Frame and 3 chassis for installation in 3 european standard boxes. 3 windows for 3 connection panels.
COLOUR	White (RAL 9003)
DIMENSIONS	220 x 80 mm

WP surface boxes, chassis and frames.

System of modular connection panels for installation of audiovisual equipment, classrooms, conference rooms, etc.



WP-85CJ

FEATURES	Surface box for frame and WP-86MCH chassis.
COLOUR	White (RAL 9003)
DIMENSIONS	80 x 80 x 41 mm depth

WP-86MCH

FEATURES	Frame and chassis for surface box installation WP-85CJ. Window for 1 connection panel.
COLOUR	White (RAL 9003)
DIMENSIONS	80 x 80 mm

WP-148CJ

FEATURES	Surface box for frame and WP-149MCH chassis.
COLOUR	White (RAL 9003)
DIMENSIONS	148 x 81 x 42 mm depth

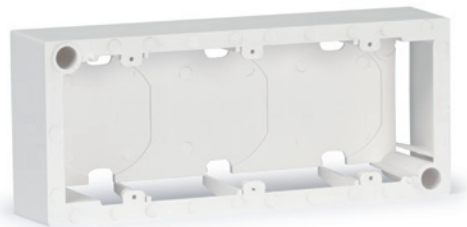
WP-149MCH

FEATURES	Frame and chassis for surface box installation WP-148CJ Window for 2 connection panels.
COLOUR	White (RAL 9003)
DIMENSIONS	148 x 80 mm

CONNECTION PANELS

MODULAR

Connection panels for installations of audiovisuals, classrooms, conference rooms, etc.
System of modular connection panels with different connectors.



WP-194CJ

FEATURES

Surface box for frame and WP-195MCH chassis.

COLOUR

White (RAL 9003)

DIMENSIONS

194 x 81 x 42 mm depth



WP-195MCH

Frame and chassis for surface box installation WP-194CJ.
Window for 3 connection panels.

White (RAL 9003)

195 x 80 mm



FEATURES

WPB-4

Surface box for 4 connection panels.
Possibility of desktop, under-table or wall installation.
Metal dividers guaranteeing electromagnetic isolation.
Rear cable outlet for power strip and lower cable outlet for tube.

COLOUR

White (RAL 9003)

DIMENSIONS

208 x 62 x 100 mm depth

WEIGHT

0.2 kg



WP-87T

FEATURES

Blind cover for 1 connection panel.

COLOUR

White (RAL 9003)

DIMENSIONS

45 x 45 x 33.3 mm depth



WP-88T2

Blind cover for 1/2 connection panel.

White (RAL 9003)

22.5 x 45 x 33.5 mm depth.



WP-33J

3.5 mm stereo female jack.
1/2 connection panel.
Screw terminals.

White (RAL 9003)

22.5 x 45 x 33.5 mm depth.



WP-34V

VGA, D15 female.
1/2 connection panel.
Quick connection without screws.

White (RAL 9003)

22.5 x 45 x 42.6 mm depth.



WP-51V

FEATURES

VGA, D15 female.
1/2 connection panel.
Plug-in euroblock connection.

COLOUR

White (RAL 9003)

DIMENSIONS

22.5 x 45 x 47 mm depth.



WP-61V-02

VGA female.
1/2 connection panel.
20 cm cable connection with female VGA connector.

White (RAL 9003)

45 x 22.5 x 38.5 mm depth



WP-52JVJ

VGA, D15 female.
Mic, 3.5 mm stereo female jack.
Headphones, 3.5 mm stereo female jack.
1 connection panel.
Quick connection without screws.

White (RAL 9003)

45 x 45 x 45 mm depth



	WP-35T	WP-36J	WP-37H	WP-46H
FEATURES	Snap-on speaker terminals. 1 connection panel. Screw terminals.	6.3 mm stereo female jack. 1/2 connection panel. Quick connection without screws or weld.	HDMI female. 1/2 connection panel. Connection by HDMI female 90°.	Female HDMI connector. 1/2 connection panel. Quick connection without screws.
COLOUR	White (RAL 9003)	White (RAL 9003)	White (RAL 9003)	White (RAL 9003)
DIMENSIONS	45 x 45 x 33.3 mm depth	22.5 x 45 x 34 mm depth.	22.5 x 45 x 33.3 mm depth.	22.5 x 45 x 39.2 mm depth.



	WP-62H-02	WP-38K	WP-39X	WP-42R
FEATURES	HDMI female. 1/2 connection panel. 10 cm cable connection with female HDMI connector.	4 pin female speaker connector. 1 connection panel. Screw terminals.	Female XLR connector. 1 connection panel. Screw terminals.	2 RCA audio connectors L, R. 1/2 connection panel. Screw terminals.
COLOUR	White (RAL 9003)	White (RAL 9003)	White (RAL 9003)	White (RAL 9003)
DIMENSIONS	45 x 22.5 x 38.5 mm depth	45 x 45 x 41.5 mm depth	45 x 45 x 47 mm depth	22.5 x 45 x 33.3 mm depth.



	WP-43R	WP-44S	WP-32U
FEATURES	3 x RCA video and audio L, R. 1/2 connection panel. Screw terminals.	2-pole ground plug base. 250 V AC, 16 A. 1 connection panel. Screw terminals. Safety shutter.	USB A female. 1/2 connection panel. Screw terminals.
COLOUR	White (RAL 9003)	White (RAL 9003)	White (RAL 9003)
DIMENSIONS	22.5 x 45 x 33.3 mm depth.	45 x 45 x 40.6 mm depth	22.5 x 45 x 33.3 mm depth.



	WP-47U	WP-63U-02	WP-56P	WP-48P
FEATURES	USB A female. 1/2 connection panel. Connection via USB female 90°.	USB A female. 1/2 connection panel. 20 cm cable connection with female USB A connector.	Cable outlet. 1 connection panel.	Cable outlet. 1 connection panel.
COLOUR	White (RAL 9003)	White (RAL 9003)	White (RAL 9003) Brush: black	White (RAL 9003)
DIMENSIONS	22.5 x 45 x 33.3 mm depth.	45 x 22.5 x 33 mm depth	45 x 45 x 16 mm depth	45 x 45 x 14.2 mm depth

CONNECTION PANELS

MODULAR

Connection panels for installations of audiovisuals, classrooms, conference rooms, etc.
System of modular connection panels with different connectors.



WP-31UC



WP-53UC2

FEATURES

WP-31UC

USB chargers.
1/2 connection panel.
Screw terminals.

WP-53UC2

USB chargers.
1 connection panel.
Screw terminals.

CONNECTORS	USB A female.	2 x USB A female connectors with lid
INDICATOR LIGHTS	LED power on indicator	LED power on indicator
CONTROLS	On/off push button	-
OUTPUTS	5 V DC (1,000 mA)	5 V DC (2 x 1,200 mA)
POWER SUPPLY	100-250 V AC	100-240 V AC
COLOUR	White (RAL 9003)	White (RAL 9003)
DIMENSIONS	22.5 x 45 x 46 mm depth.	45 x 45 x 47 mm depth



FEATURES

WP-49RJ

RJ-45 FTP Cat 6 T568B.
1/2 connection panel.
Quick connection without screws.

WP-54I

Switch with LED indicator.
230/115 V AC 16 A.
1 connection panel.
Fast On connections or weld.

COLOUR	White (RAL 9003)	White (RAL 9003)
DIMENSIONS	22.5 x 45 x 32.1 mm depth.	45 x 45 x 39 mm depth

5 m

WP-51V-5

VGA A connection panel with preinstalled cable.
5 m length Colour: White (RAL 9003)

WP-51V-10

10 m

Same features as mod. **WP-51V-5**. 10 m long
Colour: White (RAL 9003)

WP-51V-15

15 m

Same features as mod. **WP-51V-5**. 15 m long
Colour: White (RAL 9003)

WP-51V-20

20 m

Same features as mod. **WP-51V-5**. 20 m long
Colour: White (RAL 9003)

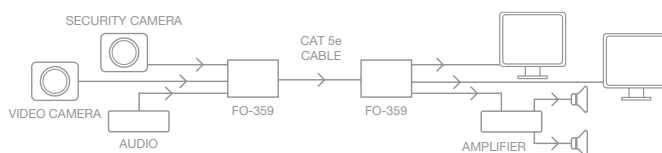


AUDIO

AUDIO AND VIDEO EXTENSIONS

Audio and video balun extender via Cat 5e cable.

TAR



FO-355 **N!**

FEATURES

Audio and analogue video balun extender via Cat 5e/6 cable.
Transmitter and receiver pair.
Up to 200 m transmission distance.
Balances/unbalances the signal and adapts impedances.
Reversible (can function as both transmitter and receiver).
No power required.

INPUTS/OUTPUTS

1 aux, 2 x RCA 450 Ω
1 composite video, RCA 65 Ω
1 RJ-45, audio and video

RESPONSE

Audio: 10-50,000 Hz
Video: CC-8 MHz

TRANSMISSION PARAMETERS

Insertion losses below 2 dB (DC-8 MHz)
Return losses greater than 12 dB (DC-8 MHz)
Common mode rejection greater than 32 dB at 8 MHz

LENGTH

0.7 m

FO-359

FEATURES

Audio and analogue video balun extender via Cat 5e cable.
Transmitter and receiver pair.
Maximum transmission distance up to 300 m for audio signal and 670 m for composite video signal.
Balances/unbalances the signal and adapts impedances.
Reversible (can function as both transmitter and receiver).
No power required.

INPUTS/OUTPUTS

2 aux, RCA 600 Ω
2 composite video, RCA 75 Ω 1.1 Vpp
1 RJ-45, audio 1 (pin 1 y 2), audio 2 (pin 3 y 6),
video 1 (pin 7 and 8), video 2 (pin 4 and 5)

RESPONSE

Audio: 60-50,000 Hz
Video: DC-8 MHz

TRANSMISSION PARAMETERS

Insertion losses below 2 dB (DC-8 MHz)
Return losses greater than 15 dB (DC-8 MHz)
Common mode rejection greater than 40 dB at 8 MHz

DIMENSIONS

93 x 30 x 77 mm depth

WEIGHT

2 x 0.2 kg

ACCESSORIES

HANGING BRACKETS

USB EXTENSIONS

USB extender via Cat 5e/6 cable.

Extends the capacity and uses of your USB devices, webcams, barcode scanners, keyboards and mice, etc.

USB hub extension 1 x 4 per Cat 5e/6 cable.

Extends the capacity and uses of your USB devices, webcams, barcode scanners, keyboards and mice, etc.



FO-358

FEATURES

USB extension via Cat 5e/6 cable.
Transmitter and receiver pair.
Up to 45 m transmission distance.
Compatible with USB 1.1, without the need for PC or Mac drivers.

INPUTS/OUTPUTS

USB A

POWER SUPPLY

Via USB, 5 V DC, 20 mA

DIMENSIONS

Transmitter and receiver: 65 x 23 x 38 mm depth

WEIGHT

2 x 0.1 kg

FO-357U

FEATURES

USB extension via Cat 5e/6 cable.
Transmitter and receiver pair.
Transmission distance up to 50 m, up to 80 m for mouse and keyboard.
Compatible with USB 2.0, without the need for PC or Mac drivers.

OUTPUTS

4 x female USB A

POWER SUPPLY

Transmitter: via USB
Receiver: 5 V DC, 2 A adapter included

DIMENSIONS

Transmitter: 52 x 26 x 41 mm depth
Receiver: 82 x 23 x 43 mm depth

WEIGHT

2 x 0.1 kg

ACCESSORIES

Male USB A to male USB B 1 m cable

USB ADAPTERS

USB C to HDMI cable

USB-C 3.1

FO-48CH

FEATURES

USB C to HDMI cable.
UHD 4K@60Hz resolution.
18 Gbps bandwidth.
Connect smartphones, tablets, laptops, cameras and other and other HDMI Alt Mode compatible devices to televisions or projectors with HDMI input.



HDMI	2.0
A CONNECTOR	USB 3.1 type C male
B CONNECTOR	Gold-plated male HDMI connector
POWER SUPPLY	5 V DC via USB C connector

HDMI 2.0

USB-C 3.1

FO-50CH

FEATURES

USB C to HDMI adapter.
UHD 4K@60Hz resolution.
18 Gbps bandwidth.
Connect smartphones, tablets, laptops, cameras and other HDMI Alt Mode compatible devices.
3.1 USB.



HDMI	2.0
INPUTS	1 USB C male
OUTPUTS	1 HDMI female
LENGTH	21 cm



HDMI 1.3

USB-C 3.0

GIGABIT ETHERNET

PD (POWER DELIVERY) 60 W MÁX.

FO-55CH

FEATURES

USB C 4-in-1 hub.
Converts a USB C input into 4 inputs (USB C with Power Delivery and data transmission, HDMI, RJ-45 and 3.0 USB).
Expands ports on laptops or tablets. Ideal for presentations, training, etc.
It allows you to connect them to TVs or projectors with HDMI input and charge the battery simultaneously through the USB C port
Connection of external devices (keyboard, mouse, hard disk) via 3.0 USB.
Allows cable connection to the internet via RJ-45 Gigabit Ethernet port. (10/100/1000 Mbps).
HD 1080p@60Hz resolution.
Compatible with Windows and Mac.
Portable, lightweight and compact design.
No configuration necessary.
Maximum 3.0 USB data transfer speed: 5 Gbps. Compatible with 2.0 USB.
Battery charging via USB C port available for PD (power delivery) devices .
HDMI port compatible with USB C devices with video output.



GIGABIT ETHERNET

USB-C 3.1

FO-51CE

FEATURES

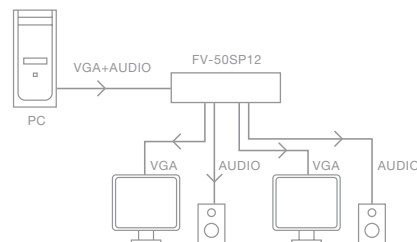
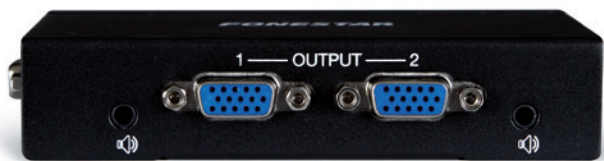
USB C to Gigabit Ethernet Adapter.
3.1 USB.

INPUTS	1 USB C male
OUTPUTS	1 Ethernet RJ-45 female
LENGTH	21 cm

HDMI	1.3
INPUTS	1 USB C male with 10 cm cable
OUTPUTS	1 USB C female, 5 V 1.5 A max. 1 HDMI female 1 Ethernet RJ-45 female 1 3.0 USB, 5 V 1.5 A max.
POWER SUPPLY	Supports PD load to a maximum of 60 W.
DIMENSIONS	180.5 x 91.5 x 17 mm
WEIGHT	0.1 kg

VGA SPLITTERS

1 x 2 VGA and stereo audio splitter
Distributes and amplifies the VGA signal up to a distance of 15 m.



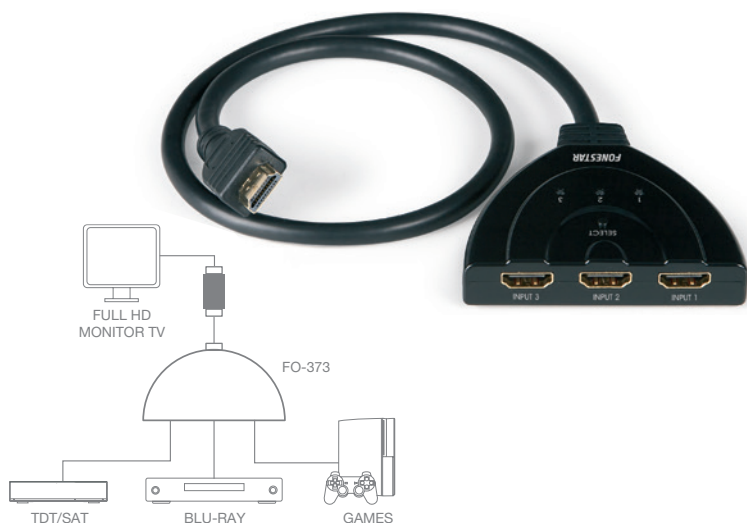
FV-50SP12

FEATURES
VGA and stereo audio splitter.
Compatible up to 1920 x 1200 and 1080p.
Bandwidth 500 MHz.
Up to 15 m transmission distance.
Metal chassis.

INPUTS	1 female VGA D15 1 audio, 3.5 mm stereo jack
OUTPUTS	2 female VGA D15 2 audio, 3.5 mm stereo jack
INDICATOR LIGHTS	LED power on indicator
POWER SUPPLY	5 V DC, 1 A including adapter
DIMENSIONS	118 x 26 x 71 mm depth
WEIGHT	0.2 kg

HDMI SWITCHES

HDMI selectors.



- 3x1
- HDMI 1.3
- HDCP 1.1
- BIDIRECTIONAL

FO-373

FEATURES
Bidirectional 3 x 1 HDMI switch.
HD 1080p@60Hz resolution.
Bandwidth 7.5 Gbps.
Can operate as a 3-input signal switch to 1 screen or a 1-input signal switch to one of the 3 screens connected to the output.
Supports LPCM, DTS Digital, Dolby Digital.

HDMI	1.3b
HDCP	1.1
INPUTS/OUTPUTS	3 HDMI female gold connectors 1 HDMI male gold connector with 50 cm cable
CONTROLS	Input/output selection buttons
INDICATOR LIGHTS	LED selected input/output indicator
DIMENSIONS	81 x 14 x 75 mm depth
WEIGHT	0.1 kg



- 3x1
- HDMI 1.3

FO-513

FEATURES
3 x 1 HDMI switch.
Compatible with Full HD 1080p@60Hz.
1.3B HDMI
Smart automatic selection function when detecting an input signal.
Manual input selection.
Bandwidth 7.5 Gbps.

INPUTS	3 HDMI female gold connectors
OUTPUT	1 HDMI male gold connector with 50 cm cable
CONTROLS	Input selection buttons
INDICATOR LIGHTS	Selected input indicator light
DIMENSIONS	81 x 16 x 60 mm depth
WEIGHT	0.12 kg

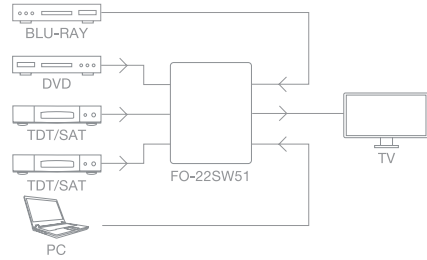
HDMI SWITCHES

HDMI switches with remote control..

- 5x1
- HDMI 2.0
- HDCP 2.2
- CEC

FO-22SW51

FEATURES	5 x 1 HDMI switch. UHD 4K@60Hz resolution. 2.0 HDMI. 2.2 HDCP. 18 Gbps bandwidth. Supports LPCM 7.1, DTS Digital and Dolby Digital. CEC compatible. Remote control.
INPUTS	5 HDMI female gold connectors 1 IR extender for remote control
OUTPUTS	1 gold-plated female HDMI connector
CONTROLS	Input selection button
INDICATOR LIGHTS	Selected input indicator light
POWER SUPPLY	5 V DC, 1 A including adapter
DIMENSIONS	81 x 18 x 58 mm depth
WEIGHT	0.2 kg
ACCESSORIES	Remote control extension cable



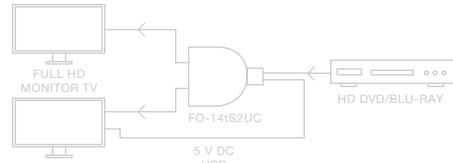
HDMI SPLITTERS

HDMI splitters.

- 1x2
- HDMI 1.4
- HDCP 1.2

FO-14S2UC

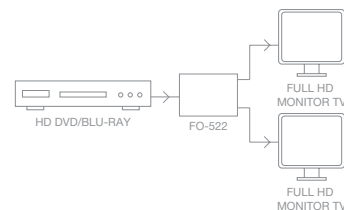
FEATURES	1 x 2 HDMI amplifier splitter. UHD 4K@30Hz resolution. Bandwidth 10.2 Gbps. Integrated input cable and powered by a television USB port.
HDMI	1.4
HDCP	1.2
INPUTS	1 HDMI male gold connector with 50 cm cable
OUTPUTS	2 HDMI female gold connectors
INDICATOR LIGHTS	Input indicator light Outputs indicator lights
POWER SUPPLY	5 V DC, 0.5 A with 60 cm USB A male cable



- 1x2
- HDMI 1.4a
- HDCP 1.3
- EDID

FO-552

FEATURES	1 x 2 HDMI amplifier splitter. UHD 4K@30Hz resolution. Bandwidth 10.2 Gbps. EDID function automatically selects the optimal resolution for all TV's.
HDMI	1.4a
HDCP	1.3
INPUTS	1 gold-plated female HDMI connector
OUTPUTS	2 HDMI female gold connectors
INDICATOR LIGHTS	LED power on indicator Outputs indicator lights
POWER SUPPLY	5 V DC, 1 A including adapter
DIMENSIONS	75 x 16 x 50 mm depth
WEIGHT	0.1 kg

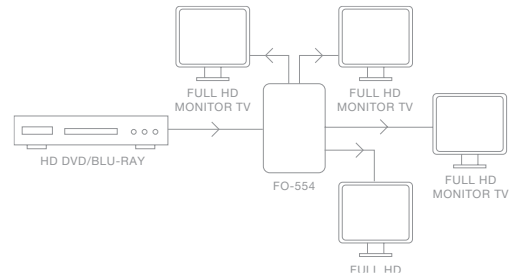


1x4 HDMI 1.4a HDCP 1.3 EDID

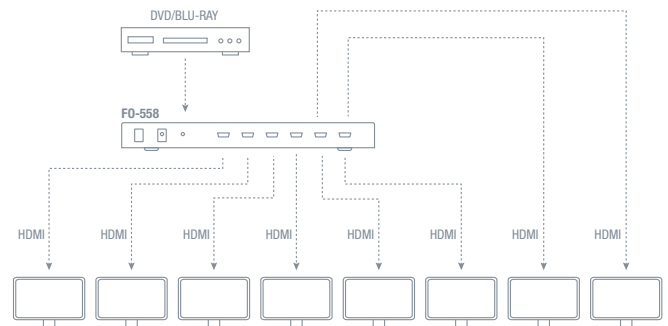
FO-554

FEATURES

1 x 4 HDMI amplifier splitter.
 UHD 4K@30Hz resolution.
 Bandwidth 10.2 Gbps.
 EDID function automatically selects the optimal resolution for all TV's.



HDMI	1.4a
HDCP	1.3
INPUTS	1 gold-plated female HDMI connector
OUTPUTS	4 HDMI female gold connectors
CONTROLS	Splitter reset button
INDICATOR LIGHTS	LED power on indicator Outputs indicator lights
POWER SUPPLY	5 V DC, 2 A including adapter
DIMENSIONS	82 x 18 x 58 mm depth
WEIGHT	0.1 kg



1x8 HDMI 1.4a HDCP 1.3 EDID

FO-558

FEATURES

1 x 8 HDMI amplifier splitter.
 UHD 4K@30Hz resolution.
 Bandwidth 10.2 Gbps.
 EDID function automatically selects the optimal resolution for all TV's.
 Supports LPCM, DTS Digital and Dolby Digital

HDMI	1.4a
HDCP	1.3
INPUTS	1 gold-plated female HDMI connector
OUTPUTS	8 HDMI female gold connectors
CONTROLS	Splitter reset button
INDICATOR LIGHTS	LED power on indicator Outputs indicator lights
POWER SUPPLY	5 V DC, 2 A including adapter
DIMENSIONS	211 x 26 x 70 mm depth
WEIGHT	0.35 kg

HDMI SPLITTERS

HDMI splitters.

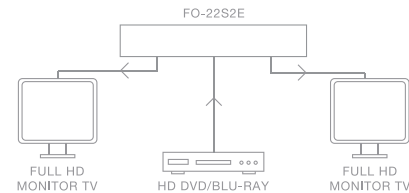
1x2 HDMI 2.0 HDCP 2.2 EDID

FO-22S2E

FEATURES

1 x 2 HDMI amplifier splitter.
UHD 4K@60Hz resolution.
18 Gbps bandwidth.
EDID function, automatically or manually selects the best resolution for all TVs.

HDMI	2.0
HDCP	2.2
INPUTS	1 gold-plated female HDMI connector
OUTPUTS	2 HDMI female gold connectors
INDICATOR LIGHTS	Operation LED indicator Outputs indicator lights
POWER SUPPLY	5 V DC, 1 A including adapter
DIMENSIONS	96 x 17 x 59 mm depth
WEIGHT	0.1 kg



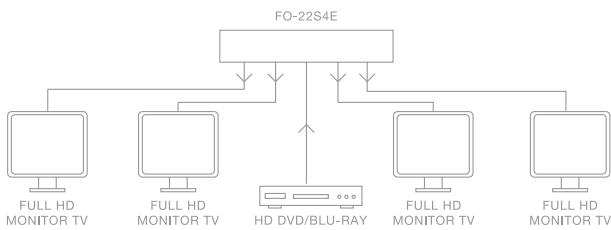
1x4 HDMI 2.0 HDCP 2.2 EDID

FO-22S4E

FEATURES

1 x 4 HDMI splitter.
UHD 4K@60Hz resolution.
18 Gbps bandwidth.
EDID function, automatically or manually selects the best resolution for all TVs.

HDMI	2.0
HDCP	2.2
INPUTS	1 gold-plated female HDMI connector
OUTPUTS	4 HDMI female gold connectors
INDICATOR LIGHTS	Operation LED indicator Outputs indicator lights
DIMENSIONS	158 x 17 x 80 mm depth
WEIGHT	0.3 kg



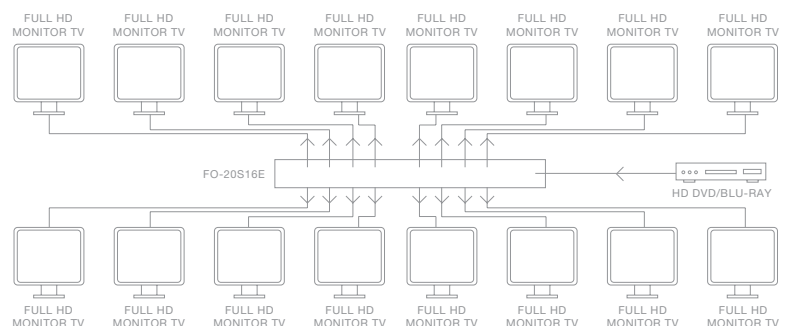
1x8 HDMI 2.0 HDCP 2.2 EDID

FO-22S8E

FEATURES

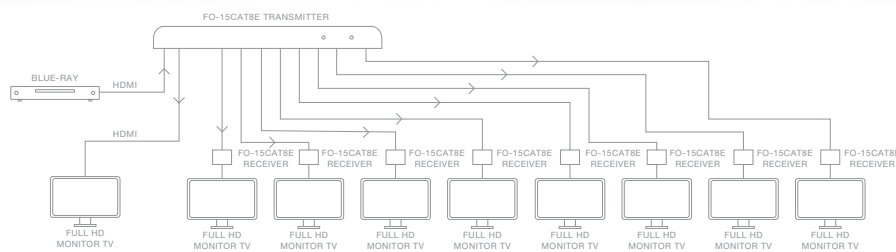
1 x 8 HDMI splitter.
UHD 4K@60Hz resolution.
18 Gbps bandwidth.
EDID function, automatically or manually selects the best resolution for all TVs.

HDMI	2.0
HDCP	2.2
INPUTS	1 gold-plated female HDMI connector
OUTPUTS	8 HDMI female gold connectors
INDICATOR LIGHTS	Operation LED indicator Outputs indicator lights
POWER SUPPLY	12 V DC, 2 A including adapter
DIMENSIONS	262 x 24 x 82 mm depth
WEIGHT	0.5 kg



HDMI splitter extender over Cat 6 cable.

This HDMI splitter with extension function over Cat 6 cable increases the transmission distance of the HDMI signal up to 40 m for a 1080p resolution. The transmission over Cat 6 cable reduces the cost and makes it easier to pass the cables through tubes and walls. Each splitter output operates with a receiver powered by the Cat 6 cable itself.



- 1x4
- HDMI 1.3
- HDCP 1.2
- 40 m
- CAT5e/6
- EDID
- PoC

FO-15CAT4E

FEATURES

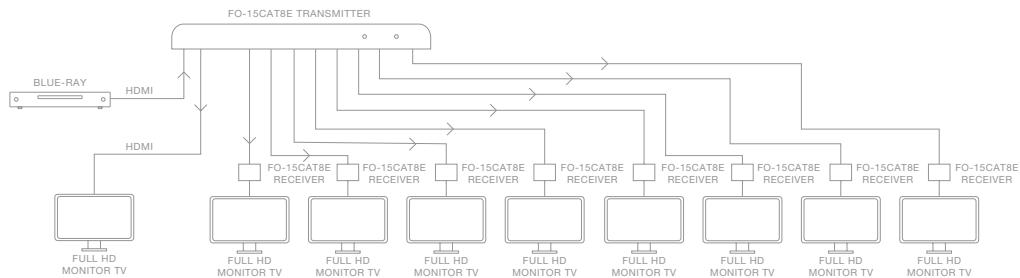
- 1 x 4 HDMI splitter extension via Cat 6 cable.
- HD 1080p@60Hz resolution.
- Bandwidth 4.95 Gbps.
- Transmission distance up to 40 m for a resolution of 1080p via Cat 6 cable.
- HDMI loop output on local TV transmitter.
- EDID function, automatically or manually selects the best resolution for all TVs.
- 10-level equaliser on each receiver to compensate for loss of transmission.
- Receiver powered by PoC via Cat 6 cable.
- In compliance with IEEE-568B standard.
- Remote control extender.

HDMI	1.3
HDCP	1.2
INPUTS	1 gold-plated female HDMI connector
OUTPUTS	4 RJ-45 ethernet extension HDMI via Cat 5e/6 cable 1 HDMI female for local monitor
RECEIVERS	4 receivers with HDMI output
POWER SUPPLY	Splitter: 5 V DC, 3 A with adapter included Receivers: PoC
DIMENSIONS	Splitter: 190 x 24 x 96 mm depth Receiver: 72 x 23 x 67 mm depth
WEIGHT	Splitter: 0.45 kg Receiver: 4 x 0.1 kg
ACCESSORIES	Transmitter and 4 remote control receivers

HDMI SPLITTERS

HDMI splitter extender over Cat 6 cable.

This HDMI splitter with extension function over Cat 6 cable increases the transmission distance of the HDMI signal up to 40 m for a 1080p resolution. The transmission over Cat 6 cable reduces the cost and makes it easier to pass the cables through tubes and walls. Each splitter output operates with a receiver powered by the Cat 6 cable itself.



- 1x8
- HDMI 1.3
- HDCP 1.2
- 40 m
- CAT5e/6
- EDID
- PoC

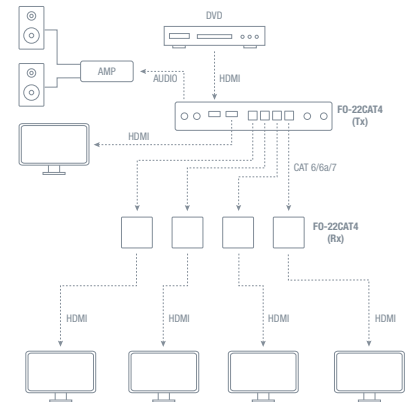
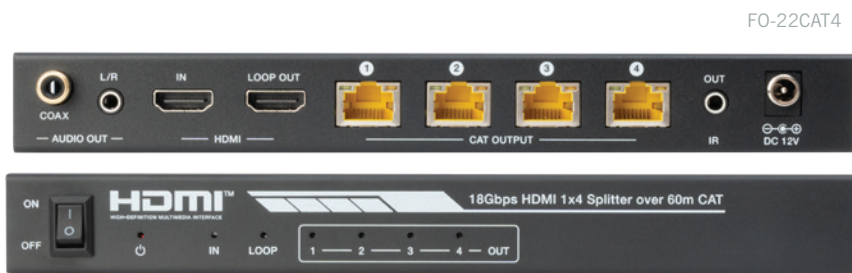
FO-15CAT8E

FEATURES

- 1 x 8 HDMI splitter extension via Cat 6 cable.
- HD 1080p@60Hz resolution.
- Bandwidth 4.95 Gbps.
- Transmission distance up to 40 m for a resolution of 1080p via Cat 6 cable.
- HDMI loop output on local TV transmitter.
- EDID function, automatically or manually selects the best resolution for all TVs.
- 10-level equaliser on each receiver to compensate for loss of transmission.
- Receiver powered by PoC via Cat 6 cable.
- In compliance with IEEE-568B standard.
- Remote control extender.

HDMI	1.3
HDCP	1.2
INPUTS	1 gold-plated female HDMI connector
OUTPUTS	8 RJ-45 ethernet extension HDMI via Cat 5e/6 cable 1 HDMI female for local monitor
RECEIVERS	8 receivers with HDMI output
POWER SUPPLY	Splitter: 12 V DC, 3 A with adapter included Receivers: PoC
DIMENSIONS	Splitter: 276 x 24 x 96 mm depth Receiver: 72 x 23 x 67 mm depth
WEIGHT	Splitter: 0.6 kg Receiver: 8 x 0.1 kg
ACCESSORIES	Transmitter and 8 remote control receivers

This HDMI splitter achieves transmission distances of up to 60m for 4k@60Hz UHD resolution.



- 1x4
- HDMI 2.0
- HDCP 2.2
- 60 m
- CAT5e/6
- EDID
- PoC

FEATURES

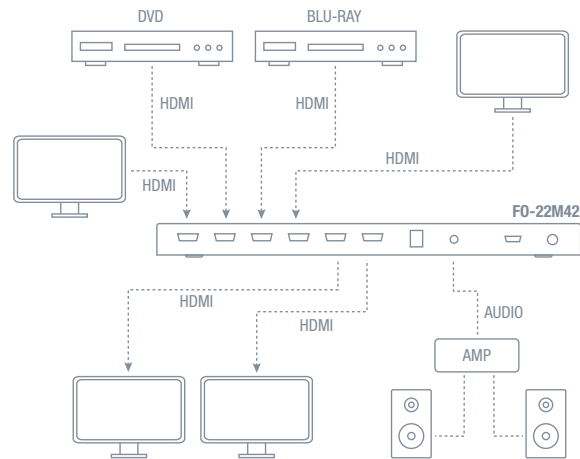
FO-22CAT4

- 1 x 4 HDMI splitter extension via Cat 6/6a/7 cable.
- UHD 4k @ 60Hz and lower resolutions.
- 18 Gbps bandwidth.
- Up to 60 m transmission distance.
- HDMI loop output on local TV transmitter.
- Analogue and digital audio extractor.
- EDID function, manually select the optimal resolution of all TVs.
- Micro USB port for serial port update and control.
- PoC power to the receivers.
- In compliance with IEEE-568B standard.
- Remote control extender.

HDMI	2.0
HDCP	2.2
DELAY	60-90 ms
INPUTS	1 HDMI female
OUTPUTS	4 RJ-45 HDMI extension via Cat 6/6a/7 cable 1 HDMI female for local monitor 1 coaxial digital audio, RCA 1 stereo audio, 3.5 mm jack
RECEIVERS	4 receivers with HDMI output
POWER SUPPLY	Splitter: 12 V DC, 2.5 A with adapter included Receivers: PoC
DIMENSIONS	Splitter: 210 x 26 x 107 mm depth Receiver: 94 x 18 x 61 mm depth
WEIGHT	Splitter: 0.6 kg Receiver: 4 x 0.2 kg
ACCESSORIES	Transmitter and 4 remote control receivers
NOTE	High quality Cat 6/6a/7 cables with FTP/SFTP shielding are recommended. Cables should have shielded connectors with the cable shielding connected to the connector shield. In this way, the reliability of HDMI extenders is improved, avoiding ground loops produced when interconnecting devices (player/receiver and TV) with different ground reference that can cause loss or cut in the image.

HDMI MATRICES

4 x 2 and 4 x 4 HDMI matrices with remote control.



- 4x2
- HDMI 2.0
- HDCP 2.2
- EDID
- DOWN-SCALING
- RS-232

FO-22M42

FEATURES	<p>4 x 2 HDMI matrix. 4K UHD@ 60Hz and lower resolutions. 18 Gbps bandwidth. HDR compatible. EDID function, manually select the optimal resolution for all TVs. DOWN-SCALING function to transform 4K resolutions to Full HD 1080p. Digital and analogue audio extractor for selected HDMI output. Remote control.</p>
HDMI	2.0
HDCP	2.2
DELAY	500 ms
INPUTS	4 HDMI female
OUTPUTS	<p>2 HDMI female 1 stereo audio, 3.5 mm jack 1 SPDIF audio, optical</p>
CONTROLS	<p>Input selection buttons for each output HDMI audio source selection button DOWN-SCALING function activation button SPDIF audio selection button</p>
INDICATOR LIGHTS	Power indicator lights, input selected for each output, selected audio source, DOWN-SCALING function activation and SPDIF digital audio activation
POWER SUPPLY	12 V DC, 1 A with adapter included
DIMENSIONS	242 x 20 x 114 mm depth
WEIGHT	0.6 kg

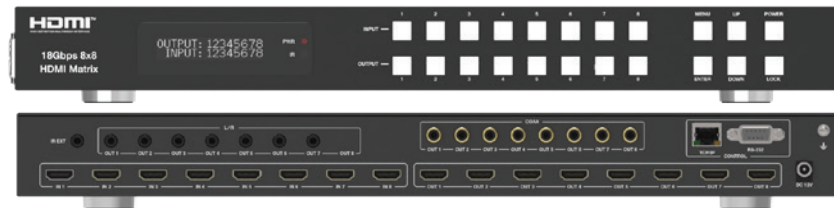


FO-22M44C



- 4x4
- HDMI 2.0
- HDCP 2.2
- EDID
- DOWN-SCALING

FEATURES	"4 x 4 HDMI matrix. UHD 4K@60Hz and Full HD 1080p resolution. 18 Gbps bandwidth. HDR, HDR10 and HDR10+ compatible. EDID function, selects the optimal resolution and audio mode for all TVs. DOWN-SCALING function to transform 4K resolutions to Full HD 1080p. Stores last scene in memory. Remote control."
HDMI	2.0
HDCP	2.2
DELAY	1 ms
INPUTS	4 HDMI female
OUTPUTS	4 HDMI female
CONTROLS	Input selection buttons for each output
INDICATOR LIGHTS	"Power indicator light Indicator lights for selected inputs and outputs"
POWER SUPPLY	12 V DC, 2.5 A with adapter included
DIMENSIONS	220 x 19 x 105 mm depth
WEIGHT	0.58 kg
ACCESSORIES	"Remote control Fixing mounts for table or wall anchoring"



- 8x8
- HDMI 2.0
- HDCP 2.3
- EDID
- DOWN-SCALING
- RS-232
- WEB INTERFACE

FO-22MX88 N!

FEATURES	"8 x 8 HDMI matrix. Resolution UHD 4K@60Hz, YUV 4:4:4. 18 Gbps bandwidth. HDR10, HDR10+ ,Dolby Vision and HLG support. Compatible with ARC, CEC and intelligent EDID management. DOWN-SCALING function to transform 4K resolutions to Full HD 1080p. Coaxial digital and stereo analogue audio extractor, for each of the outputs. Remote control extender. LCD information display. Remote control via IR remote control protocol, RS-232 communication protocol or web interface."
HDMI	2.0b
HDCP	2.3, compatible with 1.4
INPUTS	"8 HDMI female 1 RS-232 port, euroblock 1 Ethernet, RJ-45"
OUTPUTS	"8 HDMI female 8 audio, 3.5 mm stereo jack 8 coaxial digital audio, 1 x RCA"
CONTROLS	"Input selection buttons for each output Button to lock/unlock the input/output buttons Configuration menu navigation buttons
INDICATOR LIGHTS	LED power on indicator
POWER SUPPLY	12 V DC, 5 A with adapter included
DIMENSIONS	400 x 44.5 x 200 mm depth
WEIGHT	2.8 kg
ACCESSORIES	"IR remote control Remote extension cable with adhesive Female - male DB9 cable 19" rack mounts 4 non-slip feet Battery for remote control"

HDMI MATRICES

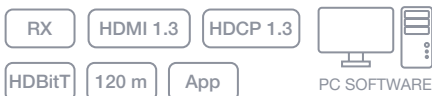
HDMI streaming over IP transmitter



FO-469-TX **NI**

FEATURES	<p>1.3 HDMI matrix transmitter over IP. Control by smartphone or tablet APP, PC software and remote control. Compatible with Full HD 1080p@60Hz. Transmission distance up to 120 m. Direct connection or via ethernet with IGMP Snooping switch. Flexible and scalable configuration, up to 100 inputs and as many outputs as required. Up to 100 x FO-469-TX transmitters and unlimited FO-470-RX receivers. Easy Plug and play connection. Data transmission and compression technology with reduced bandwidth, 28 Mbps. Remote control extension function for source control from the receiver location. Cables in compliance with IEEE-568B standard.</p>
HDMI	1.3
HDCP	1.3
DELAY	70 ms
INPUTS	1 HDMI female
OUTPUTS	1 RJ-45 ethernet extension HDMI via Cat 5e/6 cable
CONTROLS	Channel selection
POWER SUPPLY	5 V DC, 1 A with adapter included
DIMENSIONS	134 x 24 x 84 mm depth
WEIGHT	0.28 kg
ACCESSORIES	Remote control extender cable Assembly mounts

HDMI streaming over IP receiver



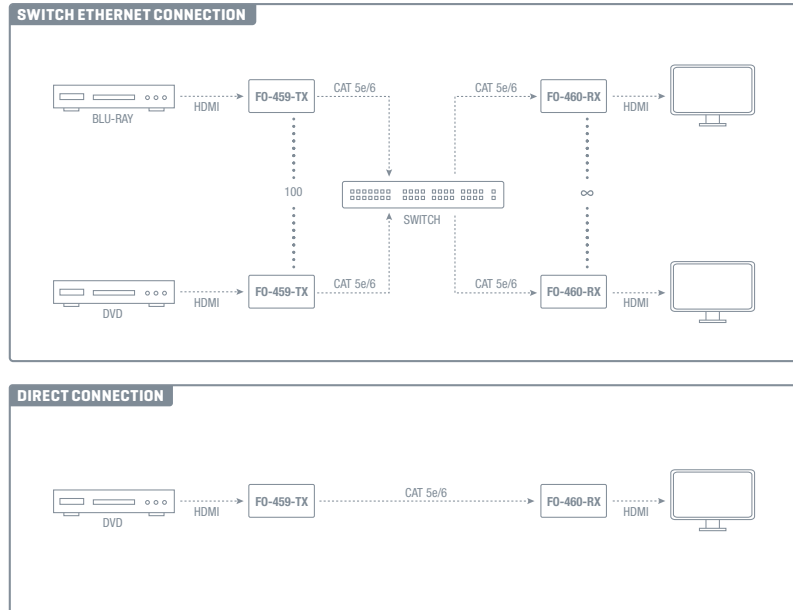
FO-470-RX **NI**

FEATURES	<p>1.3 HDMI matrix receiver over IP. Control by smartphone or tablet APP, PC software and remote control. Compatible with Full HD 1080p@60Hz. Transmission distance up to 120 m. Direct connection or via ethernet with IGMP Snooping switch. Flexible and scalable configuration, up to 100 inputs and as many outputs as required. Up to 100 x FO-469-TX transmitters and unlimited FO-470-RX receivers. Easy Plug and play connection. Data transmission and compression technology with reduced bandwidth, 28 Mbps. Remote control extension function for source control from the receiver location. Cables in compliance with IEEE-568B standard.</p>
HDMI	1.3
HDCP	1.3
DELAY	70 ms
INPUTS	1 RJ-45 ethernet extension HDMI via Cat 5e/6 cable
OUTPUTS	1 HDMI female
CONTROLS	Channel selection
POWER SUPPLY	5 V DC, 2 A with adapter included
DIMENSIONS	134 x 24 x 84 mm depth
WEIGHT	0.28 kg
ACCESSORIES	Remote control extender cable Assembly mounts

HDMI MATRICES

HDMI over IP matrices.

FONESTAR



- TX
- HDMI 2.0
- HDCP 2.2
- HDBiT
- 120 m
- App
- PC SOFTWARE



- RX
- HDMI 2.0
- HDCP 2.2
- HDBiT
- 120 m
- App
- PC SOFTWARE

FO-459-TX

FEATURES

Transmitter for HDMI-over-IP matrix extension.
 Input resolution 4K@60Hz and below.
 18 Gbps bandwidth.
 Control by smartphone or tablet APP, PC software and remote control.
 Up to 120 m transmission distance.
 Direct or Ethernet connection with 1 Gigabit switch with IGMP Snooping.
 Flexible and scalable configuration, up to 100 inputs and as many outputs as required.
 Easy Plug and play connection.
 HDBiT data transmission and compression technology with reduced bandwidth, 15 Mbps.
 Remote control extension function for source control from the receiver location.

FO-460-RX

Receiver for HDMI-over-IP matrix extension.
 Input resolution 4K@60Hz and below.
 18 Gbps bandwidth.
 Control by smartphone or tablet APP, PC software and remote control.
 Up to 120 m transmission distance.
 Direct or Ethernet connection with 1 Gigabit switch with IGMP Snooping.
 Flexible and scalable configuration, up to 100 inputs and as many outputs as required.
 Easy Plug and play connection.
 HDBiT data transmission and compression technology with reduced bandwidth, 15 Mbps.
 Remote control extension function for source control from the receiver location.

HDMI	2.0	2.0
HDCP	2.2	2.2
DELAY	200 ms	200 ms
POWER SUPPLY	5 V DC, 3 A, 10 W with adapter included	5 V DC, 3 A, 10 W with adapter included
DIMENSIONS	135 x 24 x 108 mm depth	135 x 24 x 108 mm depth
WEIGHT	2 x 0.3 kg	0.2 kg
ACCESSORIES	Remote control extension cable Remote control	Remote control extension cable Remote control

HDMI CONVERTERS

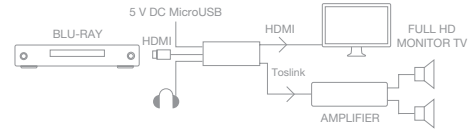
MHL micro USB to HDMI adapter for mobile phones and portable electronic devices. The RCP protocol allows you to control the terminal functionality from the TV remote control.

FO-442HA

FEATURES

HDMI audio extractor.
UHD 4K@60Hz resolution.
18 Gbps bandwidth.
Supports LPCM, DTS Digital and Dolby Digital

HDMI	2.0
HDCP	2.2
INPUT	1 gold-plated male HDMI connector
OUTPUTS	1 gold-plated female HDMI connector Optical SPDIF, toslink Headphones, 3.5 mm stereo jack
POWER SUPPLY	5V DC via micro USB connector
DIMENSIONS	58 x 58 x 16 mm depth
WEIGHT	0.1 kg



HDMI 2.0 HDCP 2.2 LPCM DTS DIGITAL DOLBY DIGITAL

FO-410

FEATURES

HDMI to VGA converter.
Compact size suitable for laptop computers.
Allows connection of a player to a screen or projector with VGA input.
Converts the HDMI signal into a VGA and stereo audio signal.
Maximum resolution 1080p (1920 x 1080).

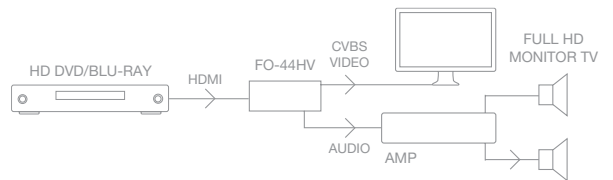
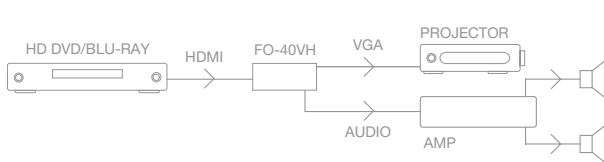
INPUTS	1 gold-plated male HDMI connector
OUTPUTS	1 VGA 1 Vpp (DDC 5 Vpp TTL) 1 aux, 2 x RCA
SUPPORTED FORMATS	480i 50/60 Hz, 576i 50/60 Hz, 480p 50/60 Hz, 576p 50/60 Hz, 720p 50/60 Hz, 1080i 50/60 Hz, 1080p 50/60 Hz
POWER SUPPLY	Via USB cable, 0.75 W
DIMENSIONS	90 cm
WEIGHT	0.1 kg



HDMI 1.3



MHL micro USB to HDMI adapter for mobile phones and portable electronic devices. The RCP protocol allows you to control the terminal functionality from the TV remote control.



HDMI 1.3 HDMI 1.2

FO-40VH

FEATURES

Composite video or S-Video and stereo audio to HDMI converter. Allows connection of devices with composite video or S-Video and stereo audio output to a screen with HDMI input. Maximum resolution of HDMI output signal: HD 1080p@60Hz. Selectable resolution: 720p or 1080p. Video input type selection: S-Video or composite video. Bandwidth 4.95 Gbps.

HDMI	1.3	1.3
HDCP	1.2	1.2
INPUTS	1 composite video, RCA 1 S-Video, DIN 4 mini 1 stereo audio, 2 x RCA	1 gold-plated female HDMI connector
OUTPUTS	1 gold-plated female HDMI connector 1 audio, 3.5 mm jack	1 composite video, RCA 1 stereo audio, 2 x RCA
CONTROLS	Video input type selection button Resolution selection button	Video output format selector
INPUT RESOLUTION	-	480i/480p/576i/576p/720p/1080i/1080p
POWER SUPPLY	5 V DC, 1 A with adapter included	5 V DC, 1 A with USB cable included
DIMENSIONS	113 x 24 x 81 mm depth	67 x 21 x 57 mm depth
WEIGHT	0.08 kg	0.1 kg

HDMI 1.3 HDMI 1.2

FO-44HV

HDMI to composite video and stereo audio converter. Allows connection of a player to a screen or projector with composite video and stereo audio input. Maximum resolution 1080p. Video output format selection: NTSC or PAL.

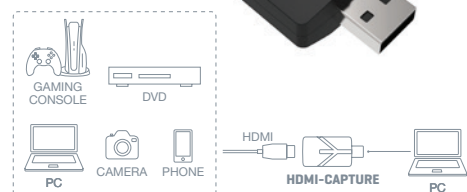
HDMI-CAPTURE

FEATURES

HDMI video capturer. Input resolution 4K@30Hz and below. Output resolution up to 1080p@60Hz. Bandwidth 10.2 Gbps. Compatible with Windows, Linux and Mac. Automatic identification of the input video format.

HDMI 1.3 HDCP 1.4
PLUG&PLAY WINDOWS/LINUX/MAC

HDMI	1.4
HDCP	1.4
INPUT	1 HDMI female
OUTPUT	1 2.0 USB A male
POWER SUPPLY	Via USB, 5 V DC, 350 mA
DIMENSIONS	31 x 13 x 51 mm depth
WEIGHT	0.2 kg



HDMI EXTENSIONS

HDMI extensions via Cat 5e/ 6 cable.

They increase the transmission distance of HDMI signals using Cat 5e/6 cable, which reduces the cost and makes it easier to run the cable through tubes and

- 50 m
- HDMI 1.3
- HDCP 1.2
- CAT6
- HDMI Loopout
- PoC

7937M

HDMI extension via Cat 6 cable.
 HD 1080p@60Hz resolution.
 Bandwidth 4.95 Gbps.
 Transmission distance up to 50 m for a resolution of 1080p via Cat 6 cable.
 HDMI loop output on local TV transmitter. EDID function, automatically or manually selects the best resolution for all TVs.
 10-level equaliser on each receiver to compensate for loss of transmission.
 Receiver powered by PoC via Cat 6 cable.
 In compliance with IEEE-568B standard. Remote control extender.

1.3

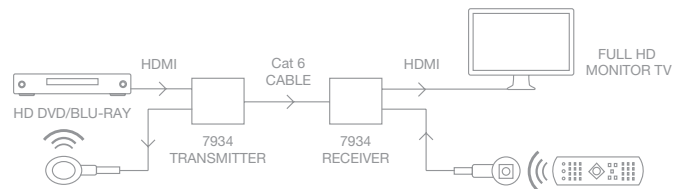
Transmitter and receiver: 72 x 23 x 67 mm depth

2 x 0.1 kg

Remote control transmitter and receiver

High quality Cat 6 cables with FTP/SFTP shielding are recommended. The cables should have shielded connectors with the cable shielding connected to the connector shield.

This improves the reliability of the HDMI extenders, avoiding ground loops caused by interconnecting devices (player/receiver and TV) with different ground reference which may cause loss or break-up of the picture.



HDMI extension via Cat 6 cable



- 70 m
- HDMI 1.3
- HDCP 1.4
- CAT6

7938

FEATURES

1.3 HDMI extension via Cat 6 cable.
 1080p@60Hz and below resolutions.
 Bandwidth 4.95 Gbps.
 HDR compatible.
 Supports EDID pass-through
 Transmission distance up to 70m for 1080p@60Hz resolutions with Cat 6 cable.
 Remote control return transmission function 20 - 60 kHz
 Auto-set and re-connection function.
 Protection against electrostatic discharge ESD, overvoltage and lightning (IEC 61000-4-2, 1a Contact discharge level 4 (8 kV) and 1b Aerial discharge level 4 (15 kV).

HDMI 1.3

HDCP 1.4

DELAY 0 ms

POWER SUPPLY Transmitter and receiver: 5 V DC, 500 mA with adapters included

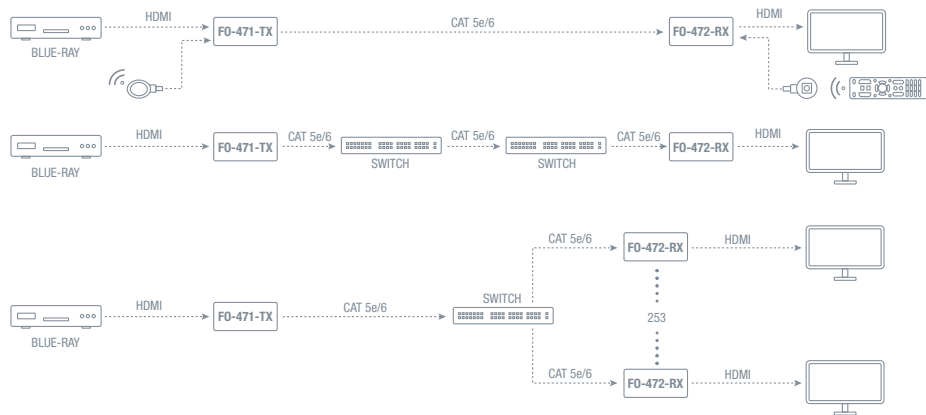
DIMENSIONS Transmitter and receiver: 72 x 25 x 67 mm depth

WEIGHT 0.2 kg

ACCESSORIES Remote control IR transmitter and receiver

NOTE

It is recommended to use high quality Cat 5e/6 cables with FTP/SFTP shielding. Cables should have shielded connectors with the cable shielding connected to the connector shield. This improves the reliability of HDMI extenders, preventing ground loops produced when interconnecting devices (player/receiver and TV) with different ground references which may cause loss or break-up of the picture.



120 m | HDMI 1.3 | HDCP 1.4 | CAT6 | HDBiT |
POINT-TO-POINT AND POINT-TO-MULTIPOINT

FO-471-TX

FEATURES

HDMI transmitter extension via Cat 5e/6 cable.
1080p@60Hz resolution.
Bandwidth 4.95 Gbps.
Transmission distance up to 120 m with direct connection with cat 6 cable for 1080p resolution. Extendable up to 120 m with each switch level.
Direct connection with cat 5e/6 cable or connection via ethernet with Gigabit switch (1 Gbps) with IGMP Snooping function.
Extension-distributor function via switch with multiple receivers, up to 253 x FO-472-RX receivers.
In compliance with IEEE-568B standard.
Low bandwidth consumption 18 Mbps.
Remote control extension function for source control from the receiver location.

FO-472-RX

HDMI receiver extension via Cat 5e/6 cable.
1080p@60Hz resolution.
Bandwidth 4.95 Gbps.
Transmission distance up to 120 m with direct connection with cat 6 cable for 1080p resolution. Extendable up to 120 m with each switch level.
Direct connection with cat 5e/6 cable or connection via ethernet with Gigabit switch (1 Gbps) with IGMP Snooping function.
Extension-distributor function, up to 253 receivers with one FO-471-TX transmitter.
In compliance with IEEE-568B standard.
Low bandwidth consumption 18 Mbps.
Remote control extension function for source control from the receiver location.

HDMI	1.3	1.3
HDCP	1.4	1.4
DELAY	80 ms	80 ms
INPUTS	1 HDMI female	1 RJ-45 ethernet extension HDMI via Cat 5e/6 cable
OUTPUTS	1 RJ-45 ethernet extension HDMI via Cat 5e/6 cable	1 HDMI female
RECEIVER	Input: 1 RJ-45 ethernet extension HDMI via Cat 5e/6 cable Output: 1 HDMI female	-
POWER SUPPLY	5 V DC, 1 A with adapter included	5 V DC, 1 A with adapter included
DIMENSIONS	97 x 24 x 94 mm depth	97 x 24 x 94 mm depth
WEIGHT	0.15 kg	0.1 kg
ACCESSORIES	Remote control transmission cable	Remote control extension cable
NOTE	It is recommended to use high quality Cat 5e/6 cables with FTP/SFTP shielding. Cables should have shielded connectors with the cable shielding connected to the connector shield. This improves the reliability of HDMI extenders, preventing ground loops produced when interconnecting devices (player/receiver and TV) with different ground references which may cause loss or break-up of the picture.	It is recommended to use high quality Cat 5e/6 cables with FTP/SFTP shielding. Cables should have shielded connectors with the cable shielding connected to the connector shield. This improves the reliability of HDMI extenders, preventing ground loops produced when interconnecting devices (player/receiver and TV) with different ground references which may cause loss or break-up of the picture.

HDMI EXTENSIONS

HDMI receiver extension via Cat 5e/6 cable.

VS-2490HD **NI**

FEATURES	Wireless HDMI extension with H.265 compression technology. Consisting of 1 transmitter and 1 receiver. Transmission distance up to 100 m in direct view for 1080p@60 Hz resolution. 5.8 GHz transmission frequency . 1080p@60 Hz compatible. Simple installation with no need of configuration. No interferences with Wi-Fi networks. No need for direct line of sight between the devices (maximum transmission distance is reduced). Remote control extender.
HDMI	1.3
HDCP	1.4
LATENCY	<120 ms
POWER SUPPLY	Transmitter and receiver: 5 V DC, 2 A with adapters included
DIMENSIONS	Transmitter and receiver: 76 x 23 x 103 mm depth
WEIGHT	2 x 0.12 kg
ACCESSORIES	1 remote control IR transmitter cable, 1.5 m 1 remote control IR receiver cable, 1.5 m



100 m | HDMI 1.3 | HDCP 1.4 | 5'8 GHz | TX/RX

HDMI PRO EXTENSIONS

Wireless HDMI extender

Wireless HDMI signal transmission up to 100 m for 1080p resolution.



70 m | HDCP 2.2 | CAT6 | HDMI LOOPOUT
DOWN-SCALING | PoC

7940XT-UHD

FEATURES	HDMI extension via Cat 6 cable. 4K UHD@ 60Hz and lower resolutions. 18 Gbps bandwidth. HDR compatible. HDMI loop output on local TV transmitter. Transmission distance up to 70 m for 4K<@>60Hz and FULL HD 1080p resolutions. DOWN-SCALING function to transform 4K resolutions to Full HD 1080p. Receiver powered by PoC via Cat 6 cable. Remote control extension function.
HDMI	2.0
HDCP	2.2 (Bypass or copy)
DELAY	1 ms
POWER SUPPLY	Transmitter: 12 V DC, 1 A with adapter included Receiver: PoC
DIMENSIONS	Transmitter and receiver: 80 x 17 x 80 mm depth
WEIGHT	0.2 kg
NOTE	It is recommended to use high quality Cat 5e/6 cables with FTP/ SFTP shielding. Cables should have shielded connectors with the cable shielding connected to the connector shield. This improves the reliability of HDMI extenders, preventing ground loops produced when interconnecting devices (player/receiver and TV) with different ground references which may cause loss or break-up of the picture.



- TX
 - 120 m
 - HDMI 2.0
 - HDCP 2.2
 - HDBiT
- POINT-TO-POINT AND POINT-TO-MULTIPOINT

FO-461-TX

FEATURES

Transmitter for HDMI-over-IP matrix extension.
 Input resolution 4K@60Hz and below.
 18 Gbps bandwidth.
 Up to 120 m transmission distance.
 Direct or ethernet connection with 1 Gigabit switch.
 Flexible and scalable configuration, easy to set up and distribute the HDMI signal to many FO-462-RX receivers.
 Easy Plug and play connection.
 HDBiT data transmission and compression technology with reduced bandwidth, 15 Mbps.
 Remote control extension function for source control from the receiver location.



- RX
 - 120 m
 - HDMI 2.0
 - HDCP 2.2
 - HDBiT
- POINT-TO-POINT AND POINT-TO-MULTIPOINT

FO-462-RX

Receiver for HDMI-over-IP matrix extension.
 Output resolution UHD 4K@60Hz and below.
 18 Gbps bandwidth.
 Up to 120 m transmission distance.
 Direct or ethernet connection with 1 Gigabit switch.
 Flexible and scalable configuration, easy to set up and distribute the HDMI signal to many FO-462-RX receivers.
 Easy Plug and play connection.
 HDBiT data transmission and compression technology with reduced bandwidth, 15 Mbps.
 Remote control extension function for source control from the receiver location.

HDMI	2.0 HDMI	2.0 HDMI
HDCP	2.2 HDCP	2.2 HDCP
DELAY	200 ms	200 ms
POWER SUPPLY	5 V DC, 3 A, 8 W with adapter included	5 V DC, 3 A, 10 W with adapter included
DIMENSIONS	103 x 25 x 98 mm depth	103 x 25 x 98 mm depth
WEIGHT	0.3 kg	0.3 kg
ACCESSORIES	Remote control extension cable	Remote control extension cable

HDMI PRO MODULATORS

Full HD HDMI DVB-T modulator. Converts a HDMI signal into a DVB-T signal that is added to the rest of the digital TV channels.



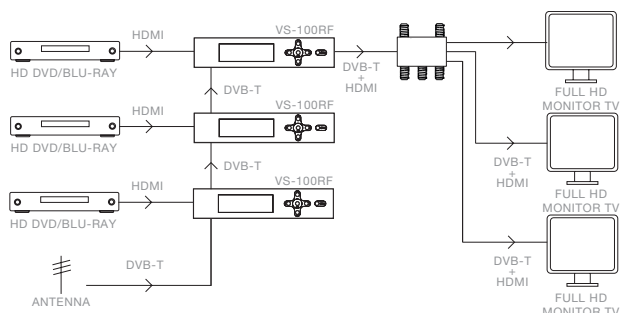
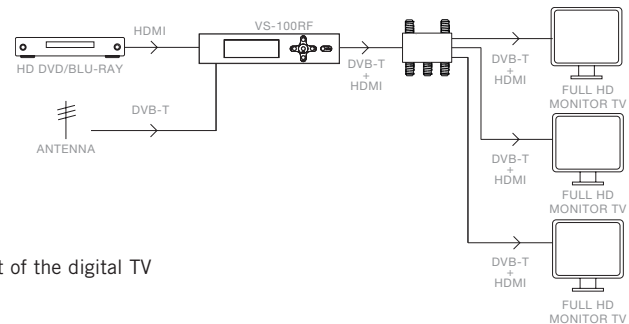
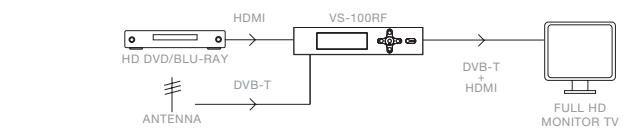
- DVB-T
- H.264

VS-100RF

FEATURES

FULL HD HDMI DVB-T modulator.
 Converts a HDMI signal into a DVB-T signal that is added to the rest of the digital TV channels.
 Full HD DVB-T output resolution 1080p.
 DVB-T modulation in VHF and UHF channels.
 Allows a HDMI signal to be distributed to several televisions via the antenna cable.
 Channel configuration display.
 Configurable channel name.
 HDCP compatible.
 Great resistance to noise and interference.
 USB port for software updating.

INPUTS	1 gold-plated female HDMI connector 1 antenna, female F connector
OUTPUTS	1 antenna, female F connector
POWER SUPPLY	5 V DC, 1 A with adapter included
DIMENSIONS	158 x 33 x 115 mm depth
WEIGHT	0.6 kg



DISPLAYPORT ADAPTERS

DisplayPort to HDMI adapter.



FULL HD 1080p@60Hz

HDMI 1.3

7967

FEATURES

DisplayPort to HDMI adapter.
DP 1.1 Passive.
Supports a resolution of up to 1080p.
Transmission bandwidth 225 MHz.
Powered through the DisplayPort.

INPUTS	1 male DisplayPort
OUTPUTS	1 HDMI female
LENGTH	15 cm

MINI DISPLAYPORT ADAPTERS

Mini DisplayPort HDMI to VGA adapters.



FULL HD 1080p@60Hz

HDMI 1.3

7960

FEATURES

Mini DisplayPort to HDMI adapter.
Allows to connect the Mini DisplayPort output from a MacBook, MacBook Pro or MacBook Air to a monitor with HDMI input.
Supports a resolution of up to 1080p.
Transmission bandwidth 225 MHz.
Powered through the Mini DisplayPort.

INPUTS	1 male Mini DisplayPort
OUTPUTS	1 gold-plated female HDMI connector
LENGTH	15 cm

FULL HD 1080p@60Hz

HDMI 1.3

7961

Mini DisplayPort to VGA adapter.
For connecting the Mini DisplayPort output from a MacBook, MacBook Pro or MacBook Air to a monitor with VGA input.
Accepts a resolution of up to 1080p, 1920 x 1200.
Powered through the Mini DisplayPort.
Version 1.2

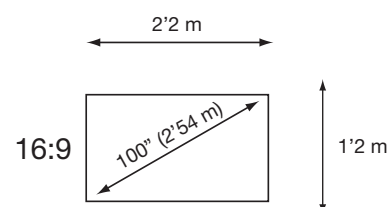
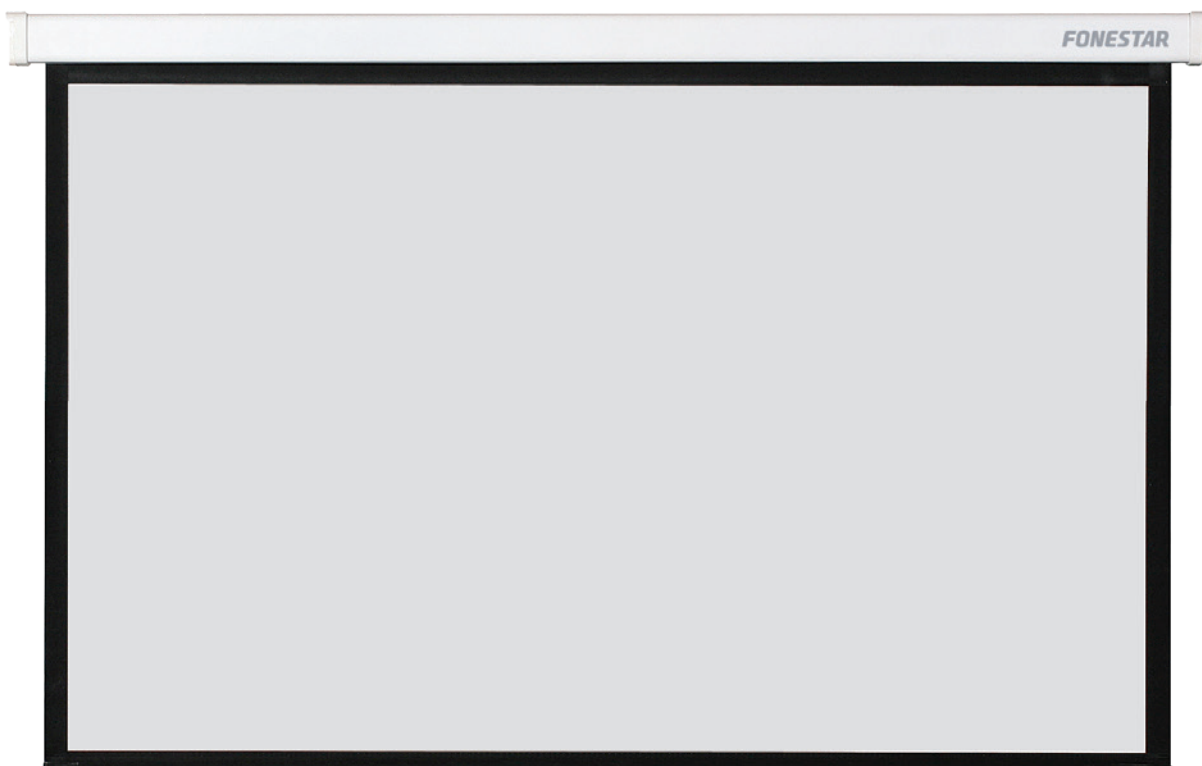
INPUTS	1 male Mini DisplayPort
OUTPUTS	1 female VGA D15
LENGTH	23 cm

PROJECTION SCREENS

FA SERIES

Manual projection screens.

FONESTAR



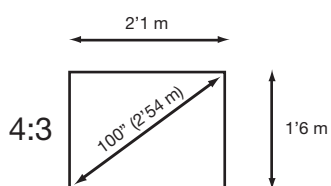
PPMA-16100-FA

FEATURES	Manual projection screen. Square housing. Self-locking system. Wall or ceiling installation.
FABRIC	PVC reinforced with fiberglass 0.9 gain Matte white Black back Flame retardant material Thickness 0.39 mm
FORMAT	16:9 5 cm black borders Extra 30 cm top black border
DIMENSIONS	Screen: 100" (2.2 x 1.2 m) Rolled up: 242 x 8.5 x 8 cm depth
WEIGHT	9.85 kg

PROJECTION SCREENS

FA SERIES

Manual projection screens.



PPMA-43100-FA

FEATURES	Projection screen with tripod Octagonal case. Tripod locking system. Adjustable height and tilt.
FABRIC	Fiberglass 0.9 gain Matte white Black back Flame retardant material Thickness 0.39 mm
FORMAT	4:3 3 cm black borders
DIMENSIONS	Screen: 100" (2.1 x 1.6 m) Rolled up: 222 x 8 x 8.5 cm depth
WEIGHT	9.2 kg

PROJECTION SCREENS

FA SERIES

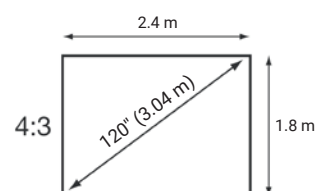
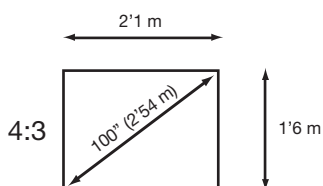
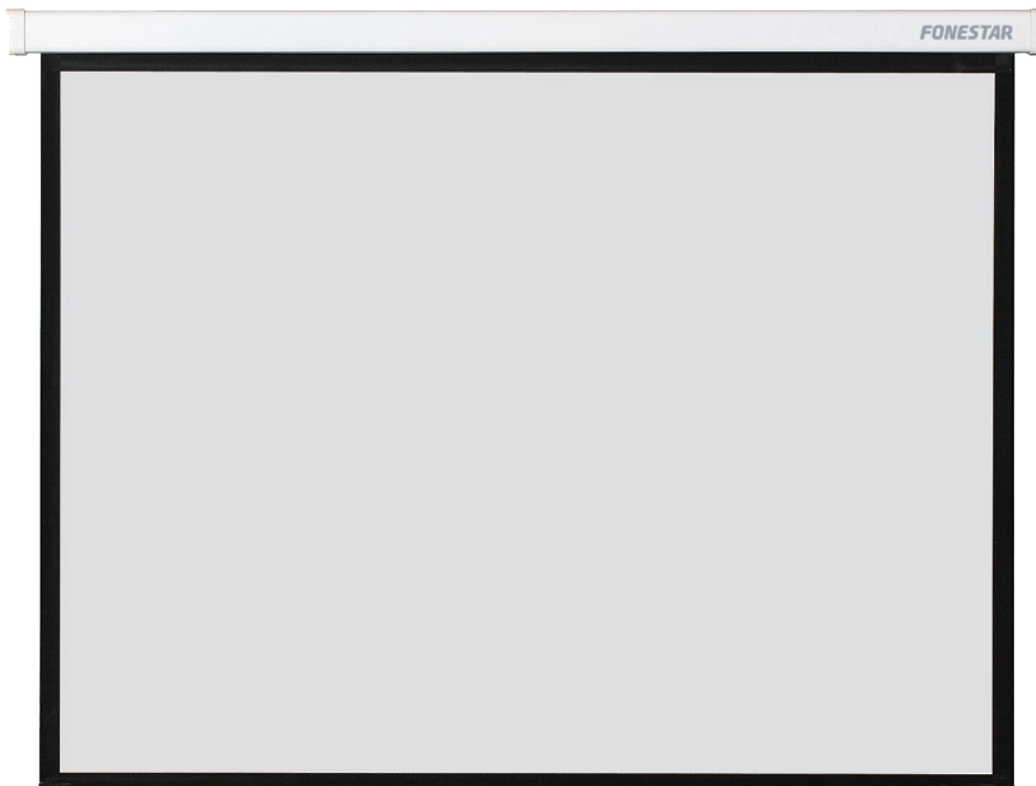
Electric projection screens.

Operation via control push buttons or RF remote control.

Adjustable end of line for different screen sizes.

Adaptable to wall or ceiling.

Ideal for classrooms, conference rooms, etc.



PPEL-43100-FA

FEATURES	Electric projection screen. Synchronous motor. Raise, lower and stop push buttons. RF remote control. Adjustable end of line. Wall or ceiling installation.
FABRIC	PVC reinforced with fiberglass 0.9 gain Matte white Black back Flame retardant material Thickness 0.39 mm
FORMAT	4:3 5 cm black borders Extra 30 cm top black border
POWER SUPPLY	230 V AC, 30 W 2 m cable wall receiver 2.5 m power supply cable
DIMENSIONS	Screen: 100" (2.1 x 1.6 m) Rolled up: 236 x 9.5 x 9.5 cm depth
WEIGHT	10 kg

PPEL-43120-FA

FEATURES	Electric projection screen. Synchronous motor. Raise, lower and stop push buttons. RF remote control. Adjustable end of line. Wall or ceiling installation.
FABRIC	PVC reinforced with fiberglass 0.9 gain Matte white Black back Flame retardant material Thickness 0.39 mm
FORMAT	4:3 5 cm black borders Extra 30 cm top black border
POWER SUPPLY	230 V AC, 121 W 2 m cable wall receiver 2.5 m power supply cable
DIMENSIONS	Screen: 120" (2.4 x 1.8 m) Rolled up: 276 x 10 x 10 cm depth
WEIGHT	14.2 kg

PROJECTION SCREENS

FA SERIES

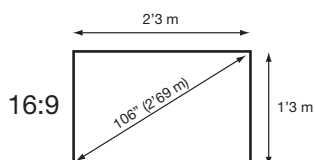
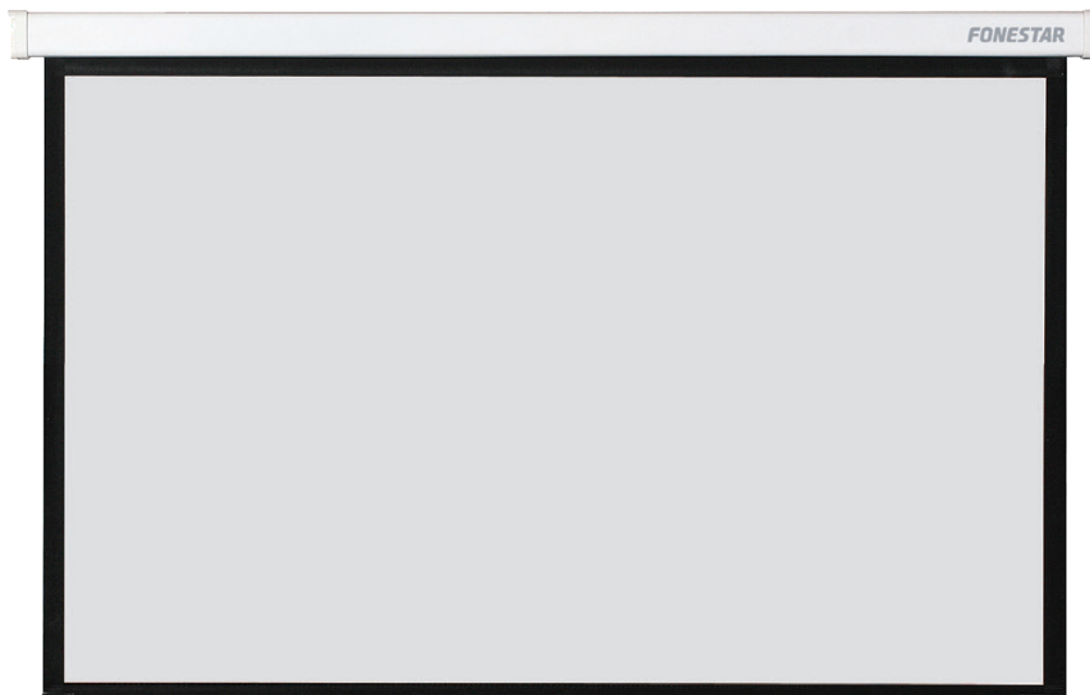
Electric projection screens.

Operation via control push buttons or RF remote control.

Adjustable end of line for different screen sizes.

Adaptable to wall or ceiling.

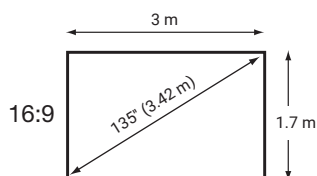
Ideal for classrooms, conference rooms, etc.



PPEL-16106-FA

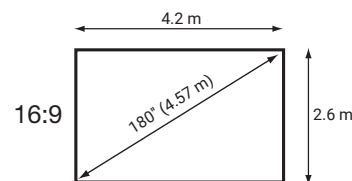
FEATURES

Electric projection screen.
Synchronous motor.
Raise, lower and stop push buttons.
RF remote control.
Adjustable end of line.
Wall or ceiling installation.



PPEL-16135-FA

Electric projection screen.
Fast and silent tubular motor.
Square housing.
Raise, lower and stop push buttons.
RF remote control.
Adjustable end of line.
Wall or ceiling installation.



PPEL-16180-FA

Electric projection screen.
Fast and silent tubular motor.
Square housing.
Raise, lower and stop push buttons.
RF remote control.
Adjustable end of line.
Wall or ceiling installation.

FABRIC	PVC reinforced with fiberglass 0.9 gain Matte white Black back Flame retardant material Thickness 0.39 mm	PVC 0.9-1 gain Matte white Black back Flame retardant material Thickness 0.46 mm	PVC 0.9-1 gain Matte white Black back Flame retardant material Thickness 0.46 mm
FORMAT	16:9 5 cm black borders Extra 30 cm top black border	16:9 6 cm black borders Extra 30 cm top black border	16:9 6 cm black borders Extra 30 cm top black border
POWER SUPPLY	230 V AC, 121 W 2 m cable wall receiver 2.5 m power supply cable	230 V AC, 121 W 2 m cable wall receiver 2.5 m power supply cable	230 V AC, 121 W 5 m cable wall receiver 2.5 m power supply cable
DIMENSIONS	Screen: 106" (2.35 x 1.32 m) Rolled up: 281 x 13.5 x 13.5 mm depth	Screen: 135" (3 x 1.7 m) Rolled up: 327 x 9.6 x 9.6 mm depth	Screen: 180" (4.2 x 2.6 m) Rolled up: 426 x 10.6 x 10.6 mm depth
WEIGHT	11 kg	18.5 kg	27.5 kg

PROJECTION SCREENS

FA SERIES

Electric projection screens.

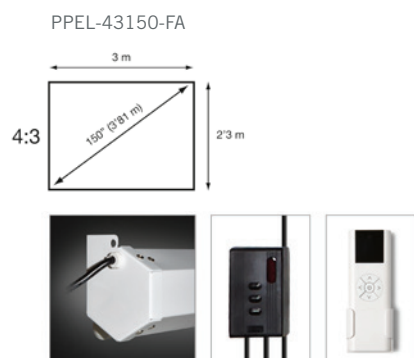
Operation via control push buttons or RF remote control.

Adjustable end of line for different screen sizes.

Adaptable to wall or ceiling.

Ideal for classrooms, conference rooms, etc.

FONESTAR



PPEL-43150-FA

FEATURES

Electric projection screen.
Fast and silent tubular motor.
Square housing.
Raise, lower and stop push buttons.
RF remote control.
Adjustable end of line.
Wall or ceiling installation.

FABRIC

PVC
0.9-1 gain
Matte white
Black back
Flame retardant material
Thickness 0.46 mm

FORMAT

4:3
6 cm black borders
Extra 30 cm top black border

POWER SUPPLY

230 V AC, 121 W
2 m cable wall receiver
2.5 m power supply cable

DIMENSIONS

Screen: 150" (3 x 2.3 m)
Rolled up: 332 x 9.6 x 9.6 mm depth

WEIGHT

20.5 kg

PROJECTION SCREENS

FA SERIES

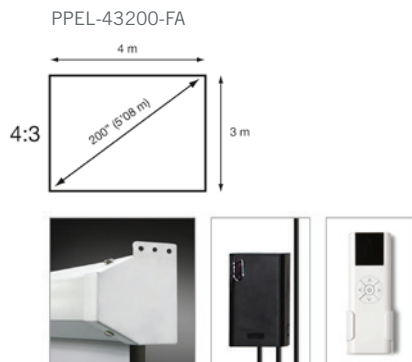
Electric projection screens.

Operation via control push buttons or RF remote control.

Adjustable end of line for different screen sizes.

Adaptable to wall or ceiling.

Ideal for classrooms, conference rooms, etc.



PPEL-43200-FA

FEATURES

Electric projection screen.
Fast and silent tubular motor.
Square housing.
Raise, lower and stop push buttons.
RF remote control.
Adjustable end of line.
Wall or ceiling installation.

FABRIC

PVC
0.9-1 gain
Matte white
Black back
Flame retardant material
Thickness 0.46 mm

FORMAT

4:3
6 cm black borders
Extra 30 cm top black border

POWER SUPPLY

230 V AC, 121 W
5 m cable wall receiver
2.5 m power supply cable

DIMENSIONS

Screen: 200" (4 x 3 m)
Rolled up: 430 x 10.6 x 10.6 mm depth

WEIGHT

35.5 kg

PROJECTION SCREENS

FONESTAR

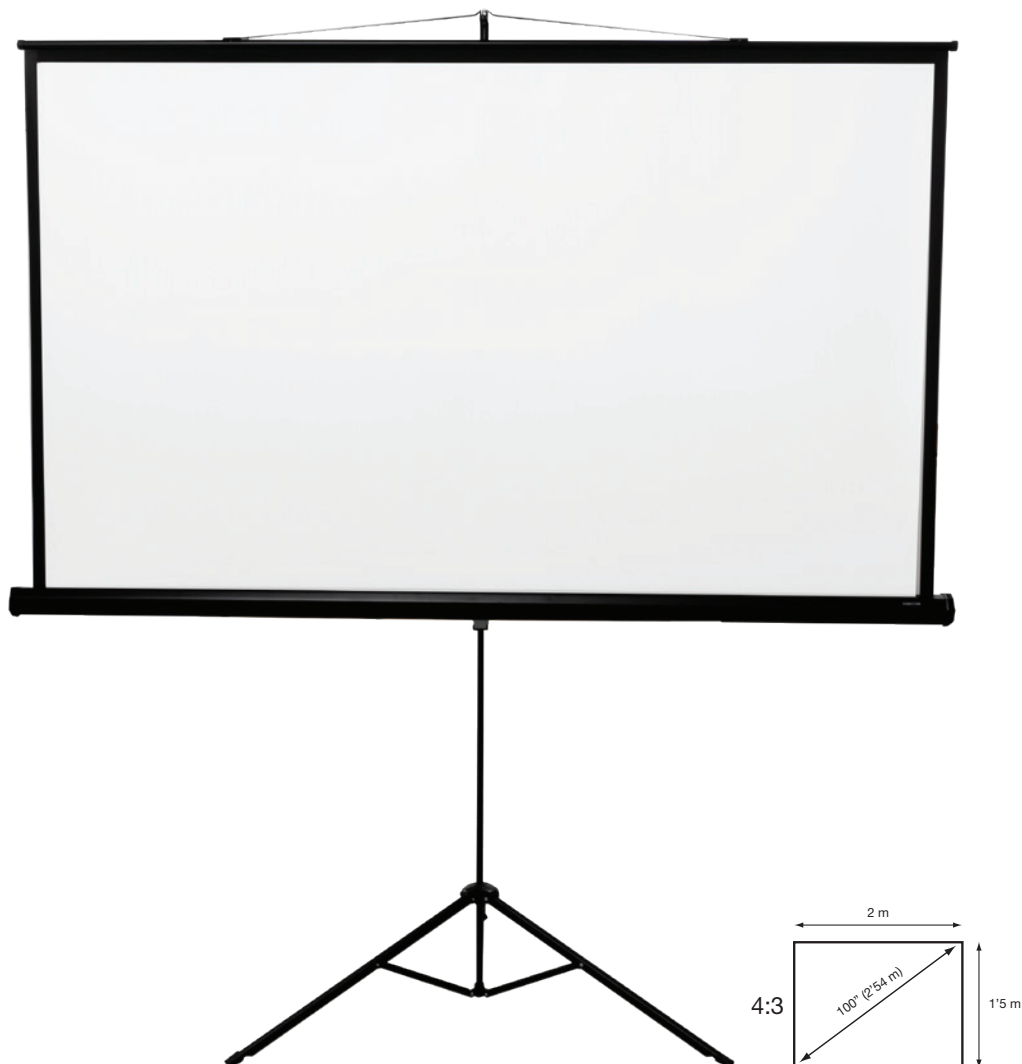
FA SERIES

Projection screen with tripod

Easy mounting with tripod locking system, great stability and height adjustable.

Lightweight and robust.

Ideal for classrooms, conference rooms, etc.



PPTR-43100-FA

FEATURES	Projection screen with tripod Octagonal case. Tripod locking system. Adjustable height and tilt.
FABRIC	Fiberglass 0.9 gain Matte white Black back Flame retardant material Thickness 0.39 mm
FORMAT	4:3 3 cm black borders
DIMENSIONS	Screen: 100" (2 x 1.5 m) Rolled up: 212.5 x 20 x 11.5 cm depth. Tripod (maximum height): 2.5 m
WEIGHT	9.7 kg

286 MOUNTS

288 TV mounts

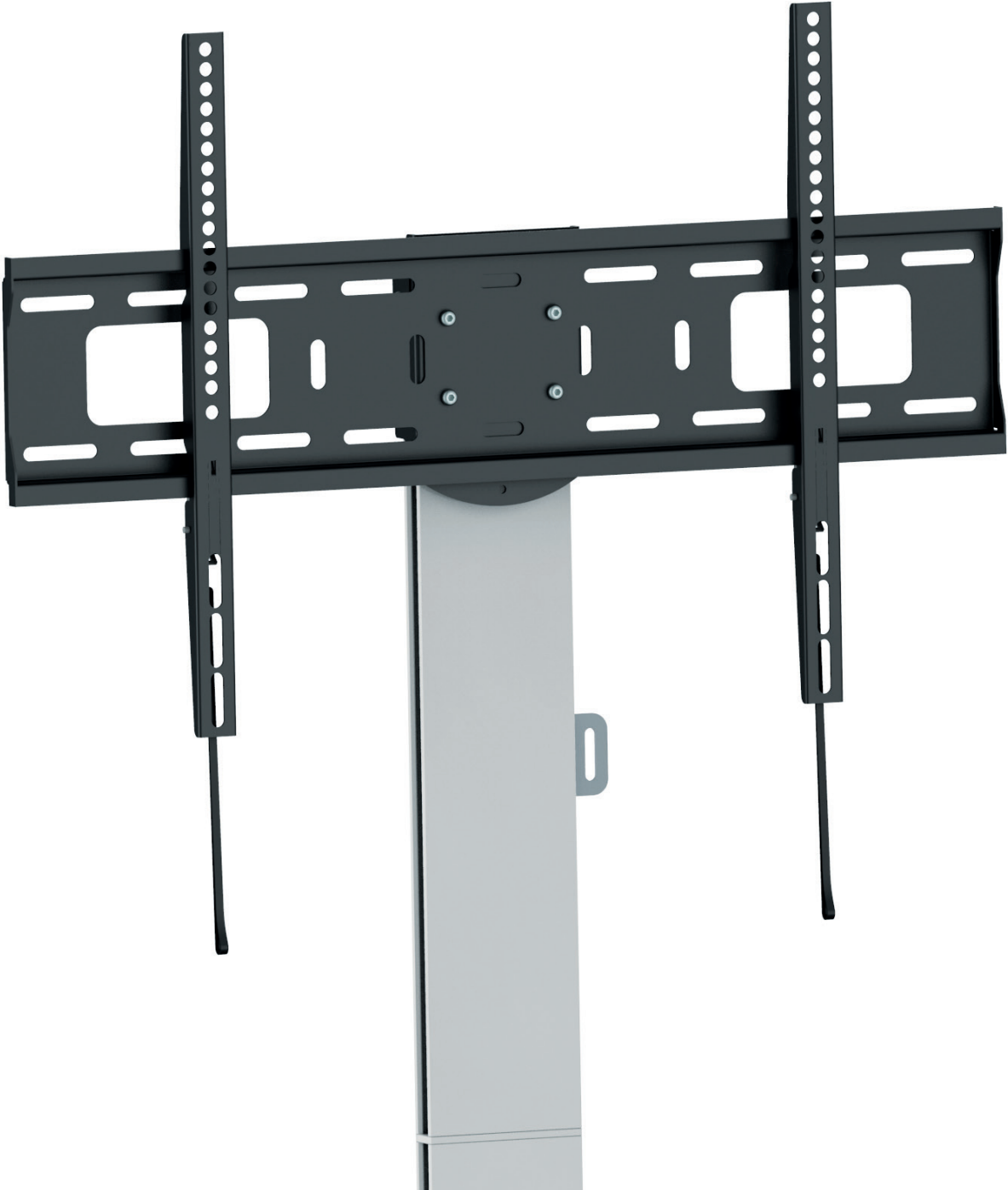
- 288 Fixed, BASIC
- 290 Fixed, EXTRA
- 291 Fixed, PREMIUM
- 292 Tilttable, BASIC
- 293 Tilttable, EXTRA
- 294 Tilttable, PREMIUM
- 295 Adjustable, BASIC
- 298 Adjustable, EXTRA
- 300 Adjustable, PREMIUM
- 302 QLED / LED
- 304 Video Wall
- 306 For speakers
- 307 Adjustable desktop mounts
- 308 Adjustable ceiling mounts
- 311 Adjustable floor mounts

316 Projector mounts

- 316 Adjustable ceiling mounts
- 318 Adjustable wall mounts
- 318 Adjustable floor mounts
- 319 Safety box for projectors

319 Microwave mounts

MOUNTS

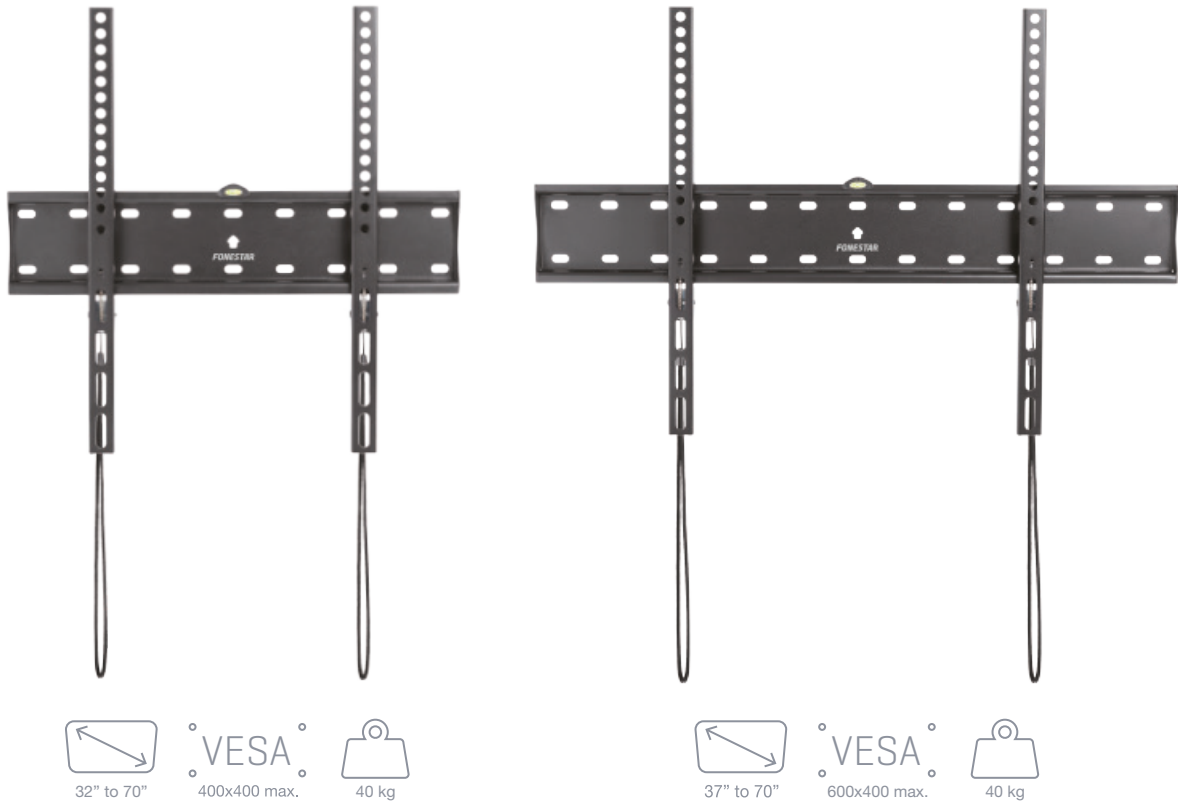


TV MOUNTS

FIXED, BASIC

Basic range of extra flat TV mounts that provide a sturdy and secure hold. Simple and easy installation.

For domestic use [auxiliary TV in the bedroom, kitchen or main TV in the living room or home cinema] and professional use [audiovisual installations in schools, offices, shops, etc.]



FIX-44BA **N!**

FEATURES	Extra flat fixed TV mount	Extra flat fixed TV mount
SCREEN	32" to 70" (81.3 to 177.8 cm)	37" to 70" (94 to 177.8 cm)
VESA	200 x 200, 300 x 300, 400 x 200, 400 x 400	200 x 200, 300 x 300, 400 x 200, 400 x 400, 600 x 400
MAXIMUM BORNE WEIGHT	40 kg	40 kg
COLOUR	Black	Black
DIMENSIONS	Distance to wall: 2.5 cm Wall plate: 43.4 x 10 cm Width adjustable from 10 to 40.5 cm x 42.5 cm height	Distance to wall: 2.5 cm Wall plate: 64.3 x 10 cm Width adjustable from 10 to 61 cm x 42.5 cm height
WEIGHT	1 kg	1.3 kg
ACCESSORIES	Spirit level Quick lock system Screws and mounting accessories	Spirit level Quick lock system Screws and mounting accessories



FIX-11BA

FEATURES	Extra flat fixed TV mount
SCREEN	13" to 32" (33 to 81.3 cm)
VESA	75 x 75, 100 x 100
MAXIMUM BORNE WEIGHT	25 kg
COLOUR	Black
DIMENSIONS	Distance to wall: 1.5 cm TV plate: 12.2 x 12.2 cm
WEIGHT	0.2 kg
ACCESSORIES	Spirit level Screws and mounting accessories



FIX-22BA

FEATURES	Extra flat fixed TV mount
SCREEN	13" to 50" (33 to 127 cm)
VESA	75 x 75, 100 x 100, 200 x 100, 200 x 200
MAXIMUM BORNE WEIGHT	25 kg
COLOUR	Black
DIMENSIONS	Distance to wall: 1.6 cm TV plate: 24.3 x 24 cm
WEIGHT	0.8 kg
ACCESSORIES	Spirit level Screws and mounting accessories



STV-634N

FEATURES	Extra flat fixed TV mount
SCREEN	37" to 100" (94 to 254 cm)
VESA	200 x 200, 300 x 300, 400 x 200, 400 x 400, 600 x 400, 800 x 400
MAXIMUM BORNE WEIGHT	65 kg
COLOUR	Black
DIMENSIONS	Distance to wall: 0.8 cm Wall plate: 88 x 8 cm Width adjustable from 4 to 81 cm x 52 cm height
WEIGHT	1.6 kg
ACCESSORIES	Spirit level Screws and mounting accessories



STV-638N

FEATURES	Extra flat fixed TV mount
SCREEN	32" to 55" (81 to 140 cm)
VESA	100 x 100, 200 x 100, 200 x 200, 400 x 200
MAXIMUM BORNE WEIGHT	45 kg
COLOUR	Black
DIMENSIONS	Distance to wall: 0.8 cm Wall plate: 48 x 8 cm Width adjustable from 7 to 42 cm x 36 cm height
WEIGHT	0.95 kg
ACCESSORIES	Spirit level Installation template, dowels, screws and mounting hardware

TV MOUNTS

FIXED, EXTRA

Extra range of extra flat TV mounts that provide a sturdy and secure hold. Simple and easy installation.

For domestic use [auxiliary TV in the bedroom, kitchen or main TV in the living room or home cinema] and professional use [audiovisual installations in schools, offices, shops, etc.].



STV-635N

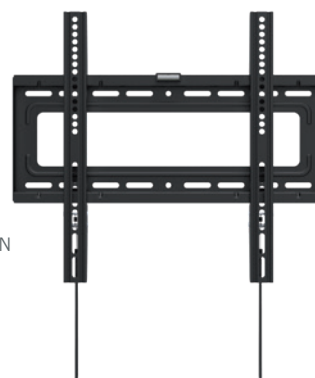


37" to 100"

VESA
800x400 max.



65 kg



STV-7244N



32" to 70"

VESA
400x400 max.



50 kg



STV-639N

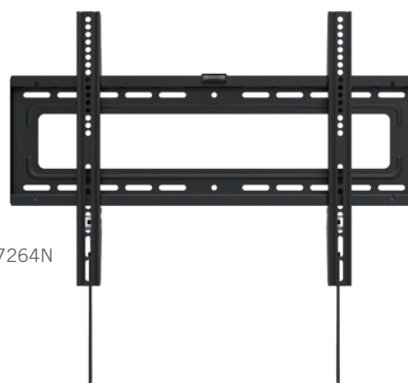


24" to 80"

VESA
400x200 max.



45 kg



STV-7264N



37" to 85"

VESA
600x400 max.



50 kg

	STV-635N	STV-639N	STV-7244N	STV-7264N
FEATURES	Extra flat fixed TV mount	Extra flat fixed TV mount	Extra flat fixed TV mount	Extra flat fixed TV mount
SCREEN	37" to 100" (94 to 254 cm)	24" to 80" (61 to 203.2 cm)	32" to 70" (81 to 177.8 cm)	37" to 85" (94 to 215.9 cm)
VESA	300 x 300, 400 x 200, 400 x 400, 600 x 400, 800 x 400	100 x 100, 200 x 100, 200 x 200, 400 x 200	200 x 200, 300 x 300, 400 x 200, 400 x 400	200 x 200, 300 x 300, 400 x 200, 400 x 400, 600 x 400
MAXIMUM BORNE WEIGHT	65 kg	45 kg	50 kg	50 kg
COLOUR	Black	Black	Black	Black
DIMENSIONS	Distance to wall: 1.9 cm Wall plate: 86 x 7 cm Width adjustable from 24 to 82 cm x 41 cm height	Wall plate: 46 x 7 cm Distance to wall: 1.9 cm Width adjustable from 7 to 42 cm x 23 cm height	Distance to the wall in vertical position: 2.8 cm Wall plate: 50.4 x 20.8 cm Width adjustable from 10 to 40 cm x 40 cm height	Distance to the wall in vertical position: 2.8 cm Wall plate: 65.4 x 20.8 cm Width adjustable from 10 to 60 cm x 40 cm height
WEIGHT	1.7 kg	1 kg	1.7 kg	2.2 kg
ACCESSORIES	Spirit level Safety system Screws and mounting accessories	Spirit level Safety system Screws and mounting accessories	Spirit level Safety system Screws and mounting accessories	Spirit level Safety system Installation template, dowels, screws and mounting hardware

TV MOUNTS

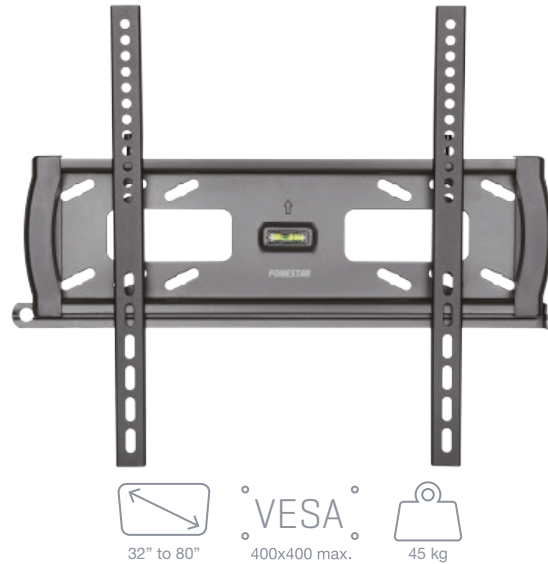
FIXED, PREMIUM

Extra range of extra flat TV mounts that provide a sturdy and secure hold. Simple and easy installation.

For professional use [audio-visual installations in schools, offices, shops, etc.]. They feature an anti-theft system using a padlock [not included], Fischer plugs and all the accessories for quick and easy installation.

FIX-44PR

FEATURES	Extra flat fixed TV mount
SCREEN	32" to 80" (81.3 to 203.2 cm)
VESA	200 x 200, 300 x 300, 400 x 200, 400 x 400
MAXIMUM BORNE WEIGHT	45 kg
COLOUR	Black
DIMENSIONS	Distance to wall: 2.6 cm Wall plate: 51.5 x 15.4 cm Width adjustable from 7.5 to 40 cm x 44 cm height
WEIGHT	1.9 kg
ACCESSORIES	Spirit level Quick lock system Fischer plugs, screws and mounting accessories Anti-theft lock system (not included)



FIX-64PR

FEATURES	Extra flat fixed TV mount
SCREEN	32" to 80" (81.3 to 203.2 cm)
VESA	200 x 200, 300 x 300, 400 x 200, 400 x 400, 600 x 400
MAXIMUM BORNE WEIGHT	45 kg
ADJUSTMENTS	-
COLOUR	Black
DIMENSIONS	Distance to wall: 2.6 cm Wall plate: 70.6 x 15.4 cm Width adjustable from 7.5 to 60 cm x 44 cm height
WEIGHT	2.5 kg
ACCESSORIES	Spirit level Quick lock system Fischer plugs, screws and mounting accessories Anti-theft lock system (not included)

STV-636N

FEATURES	Extra flat fixed TV mount
SCREEN	37" to 100" (94 to 254 cm)
VESA	200 x 200, 300 x 300, 400 x 200, 400 x 400, 600 x 400, 800 x 400, 800 x 600, 900 x 600
MAXIMUM BORNE WEIGHT	100 kg
COLOUR	Black
DIMENSIONS	Wall plate: 100 x 40 cm Distance to wall: 3.2 cm Width adjustable from 20 to 92 cm x 61 cm height
WEIGHT	4.6 kg
ACCESSORIES	Spirit level Screws and mounting accessories

TV MOUNTS

TILTABLE, BASIC

Basic range of extra flat tiltable TV mounts that provide a sturdy and secure hold. They optimise space and bring a new aesthetic to your home or business. They are vertically tiltable and includes all accessories for quick and easy installation.

TILT-11BA



TILT-44BA



TILT-22BA



TILT-64BA



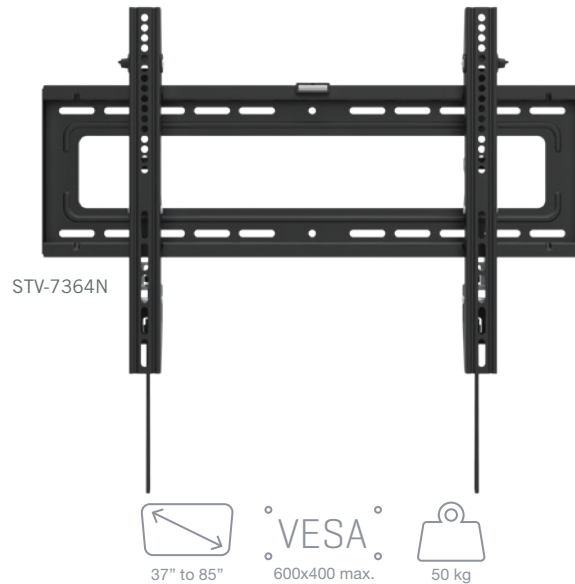
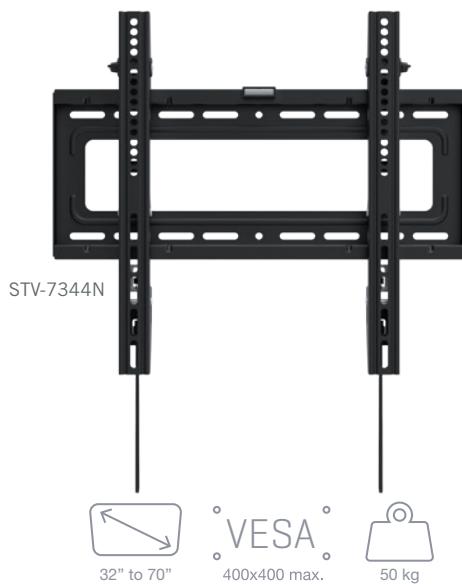
	TILT-11BA	TILT-22BA	TILT-44BA	TILT-64BA
FEATURES	Tilting TV mount	Tilting TV mount	Tilting TV mount. GS quality certificate (T-V).	Tilting TV mount
SCREEN	13" to 32" (33 to 81.3 cm)	013" to 50" (33 to 127 cm)	32" to 80" (81.3 to 203.2 cm)	37" to 80" (94 to 203.2 cm)
VESA	75 x 75, 100 x 100	75 x 75, 100 x 100, 200 x 100, 200 x 200	200 x 200, 300 x 300, 400 x 200, 400 x 400	200 x 200, 300 x 300, 400 x 200, 400 x 400, 600 x 400
MAXIMUM BORNE WEIGHT	25 kg	25 kg	40 kg	40 kg
ADJUSTMENTS	Vertical tilt -15°/+3°	Vertical tilt -7°/+7°	Vertical tilt -12°/+12°	Vertical tilt -12°/+12°
COLOUR	Black	Black	Black	Black
DIMENSIONS	Distance to wall: 3.6 cm TV plate: 12.2 x 12.2 cm	Distance to the wall: 3.7 cm TV plate: 24.3 x 24 cm	Distance to wall: 5.3 cm Wall plate: 43.4 x 10 cm Width adjustable from 10 to 40.5 cm x 42.5 cm height	Distance to wall: 5.3 cm Wall plate: 64.3 x 10 cm Width adjustable from 10 to 60 cm x 42.5 cm height
WEIGHT	0.3 kg	1 kg	1.3 kg	1.6 kg
ACCESSORIES	Spirit level Screws and mounting accessories	Spirit level Screws and mounting accessories	Spirit level Screws and mounting accessories	Spirit level Screws and mounting accessories

TV MOUNTS

TILTABLE, EXTRA

FONESTAR

Extra range of extra flat tiltable TV mounts that provide a sturdy and secure hold. They optimise space and bring a new aesthetic to your home or business. They are vertically tiltable and includes all accessories for quick and easy installation. They feature a security system.



	STV-7344N	STV-7364N	STV-7384N
FEATURES	Tilting TV mount	Tilting TV mount	Tilting TV mount
SCREEN	32" to 70" (81 to 177.8 cm)	37" to 85" (94 to 215.9 cm)	37" to 85" (94 to 215.9 cm)
VESA	200 x 200, 300 x 300, 400 x 200, 400 x 400	200 x 200, 300 x 300, 400 x 200, 400 x 400, 600 x 400	200 x 200, 300 x 300, 400 x 200, 400 x 400, 600 x 400, 800 x 400
MAXIMUM BORNE WEIGHT	50 kg	50 kg	50 kg
ADJUSTMENTS	Vertical tilt -12°	Vertical tilt -12°	Vertical tilt -12°
COLOUR	Black	Black	Black
DIMENSIONS	Wall plate: 50.4 x 20.8 cm Distance to the wall in vertical position 4 cm Width adjustable from 10 to 40 cm x 40 cm height	Wall plate: 65.4 x 20.8 cm Distance to the wall in vertical position 4 cm Width adjustable from 10 to 60 cm x 40 cm height	Wall plate: 87.4 x 20.8 cm Distance to the wall in vertical position 4 cm Width adjustable from 10 to 80 cm x 40 cm height
WEIGHT	2.5 kg	2.8 kg	3 kg
ACCESSORIES	Spirit level Safety system Screws and mounting accessories	Spirit level Safety system Screws and mounting accessories	Spirit level Safety system Screws and mounting accessories

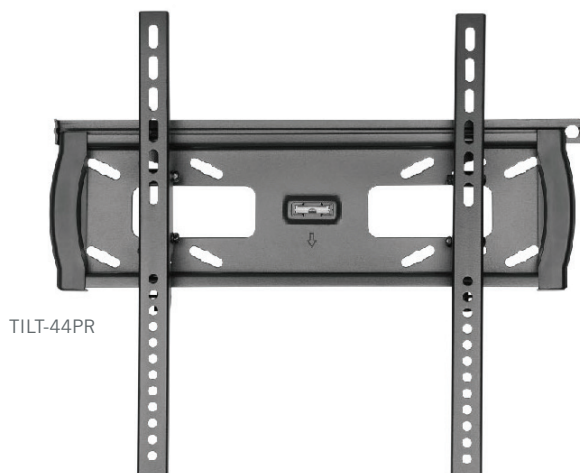
TV MOUNTS

TILTABLE, PREMIUM

Premium range of tiltable TV mounts that provide a sturdy and secure hold.

They optimise space and bring a new aesthetic to your home or business.

They are vertically tiltable and includes all accessories for quick and easy installation.



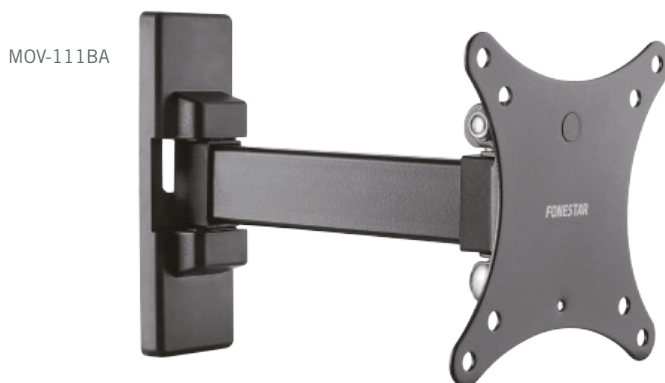
	TILT-44PR	TILT-64PR
FEATURES	Tilting TV mount	Tilting TV mount
SCREEN	32" to 80" (81.3 to 203.2 cm)	37" to 70" (94 to 177.8 cm)
VESA	200 x 200, 300 x 300, 400 x 200, 400 x 400	200 x 200, 300 x 300, 400 x 200, 400 x 400, 600 x 400
MAXIMUM BORNE WEIGHT	60 kg	60 kg
ADJUSTMENTS	Vertical tilt -15°/+10°	Vertical tilt -15°/+10°
COLOUR	Black	Black
DIMENSIONS	Distance to wall: 5.9 cm Wall plate: 51.5 x 15.4 cm Width adjustable from 7.5 to 40 cm x 44 cm height	Distance to wall: 5.9 cm Wall plate: 71 x 15.4 cm Width adjustable from 7.5 to 60 cm x 44 cm height
WEIGHT	2.3 kg	2.9 kg
ACCESSORIES	Spirit level Fischer plugs, screws and mounting accessories Anti-theft lock system (not included)	Spirit level Fischer plugs, screws and mounting accessories Anti-theft lock system (not included)

TV MOUNTS

ADJUSTABLE, BASIC

FONESTAR

Basic range of extra flat adjustable TV mounts that provide a sturdy and secure hold. They optimise space and bring a new aesthetic to your home or business. They are horizontally adjustable and vertically tiltable. They include all accessories for quick and easy installation.



	MOV-011BA	MOV-111BA	MOV-311BA
FEATURES	Adjustable TV mount	Adjustable TV mount	Adjustable TV mount
SCREEN	13" to 42" (33 to 106.7 cm)	13" to 42" (33 to 106.7 cm)	13" to 42" (33 to 106.7 cm)
VESA	75 x 75, 100 x 100	75 x 75, 100 x 100	75 x 75, 100 x 100
MAXIMUM BORNE WEIGHT	20 kg	20 kg	20 kg
ADJUSTMENTS	Horizontally adjustable 30° Vertical tilt -10°/+3°	Horizontally adjustable 180° Vertical tilt -10°/+3° Horizontal correction ± 3°	Horizontally adjustable 180° Vertical tilt -10°/+3° Horizontal correction ± 3°
COLOUR	Black	Black	Black
DIMENSIONS	Distance to wall: 7.5 cm TV plate: 11.7 x 11.7 cm Wall plate: 4 x 13.2 cm	Distance to wall: 4.4 to 19.2 cm TV plate: 11.7 x 11.7 cm Wall plate: 4.4 x 13.6 cm	Distance to wall: 4.4 to 32 cm TV plate: 11.7 x 11.7 cm Wall plate: 4.4 x 20.6 cm
WEIGHT	0.4 kg	0.5 kg	0.9 kg
ACCESSORIES	Spirit level Screws and mounting accessories	Spirit level Screws and mounting accessories	Spirit level Screws and mounting accessories

TV MOUNTS

ADJUSTABLE, BASIC

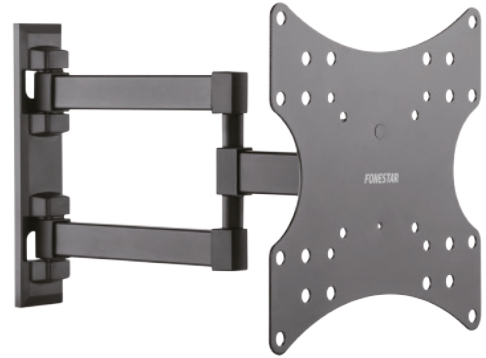
Basic range of extra flat adjustable TV mounts that provide a sturdy and secure hold. They are horizontally adjustable and vertically tiltable. They include all accessories for quick and easy installation.



MOV-022BA



MOV-122BA



MOV-322BA

FEATURES	MOV-022BA	MOV-122BA	MOV-322BA
SCREEN	23" to 55" (58.4 to 139.7 cm)	23" to 55" (58.4 to 139.7 cm)	23" to 55" (58.4 to 139.7 cm)
VESA	75 x 75, 100 x 100, 100 x 150, 150 x 100, 150 x 150, 200 x 100, 200 x 200	75 x 75, 100 x 100, 100 x 150, 150 x 100, 150 x 150, 200 x 100, 200 x 200	75 x 75, 100 x 100, 100 x 150, 150 x 100, 150 x 150, 200 x 100, 200 x 200
MAXIMUM BORNE WEIGHT	20 kg	20 kg	20 kg
ADJUSTMENTS	Horizontally adjustable 30° Vertical tilt -10°/+3° Horizontal correction ± 3°	Horizontally adjustable 180° Vertical tilt -10°/+3° Horizontal correction ± 3°	Horizontally adjustable 180° Vertical tilt -10°/+3° Horizontal correction ± 3°
COLOUR	Black	Black	Black
DIMENSIONS	Distance to wall: 7.5 cm TV plate: 22 x 22 cm Wall plate: 4 x 13.2 cm	Distance to wall: 4.4 to 19.2 cm TV plate: 22 x 22 cm Wall plate: 4 x 13.2 cm	Distance to wall: 4.4 to 32 cm TV plate: 22 x 22 cm Wall plate: 4.4 x 20.6 cm
WEIGHT	0.8 kg	0.9 kg	1.3 kg
ACCESSORIES	Spirit level Screws and mounting accessories	Spirit level Screws and mounting accessories	Spirit level Screws and mounting accessories



STV-648N



STV-650N

FEATURES	STV-648N	STV-650N
SCREEN	13" to 35" (33 to 88.9 cm)	13" to 35" (33 to 88.9 cm)
VESA	75 x 75, 100 x 100	75 x 75, 100 x 100
MAXIMUM BORNE WEIGHT	15 kg	15 kg
ADJUSTMENTS	Horizontally adjustable 180° Vertical tilt ± 70°	Horizontally adjustable 120° Vertical tilt ± 45°
COLOUR	Black	Black
DIMENSIONS	Distance to the wall in vertical position: 5 to 36 cm TV plate: 11 x 11 cm Wall plate: 4.5 x 17 cm	Distance to the wall in vertical position: 8 cm TV plate: 11 x 11 cm Wall plate: 4.5 x 17 cm
WEIGHT	1 kg	0.6 kg
ACCESSORIES	Spirit level Installation template, dowels, screws and mounting hardware	Spirit level Installation template, dowels, screws and mounting hardware



32" to 65"



400x400 max.



35 kg

MOV-344BA

FEATURES	Adjustable TV mount
SCREEN	32" to 65" (81.3 to 165.1 cm)
VESA	75 x 75, 100 x 100, 100 x 150, 100 x 200, 150 x 100, 150 x 150, 200 x 100, 200 x 200, 300 x 200, 300 x 300, 400 x 200, 400 x 300, 400 x 400
MAXIMUM BORNE WEIGHT	35 kg
ADJUSTMENTS	Horizontally adjustable 180° Vertical tilt -7°/+14° Horizontal correction ± 3°
COLOUR	Black
DIMENSIONS	Distance to wall: 7.1 to 43.1 cm TV plate: 45.5 x 13.5 cm Width adjustable from 3 to 40 cm x 42 cm height Wall plate: 6.5 x 21.8 cm
WEIGHT	2.7 kg
ACCESSORIES	Spirit level Cable clamps. Screws and mounting accessories



37" to 80"



600x400 max.



40 kg

MOV-664BA

FEATURES	Adjustable TV mount
SCREEN	37" to 80" (94 to 203.2 cm)
VESA	75 x 75, 100 x 100, 100 x 150, 100 x 200, 150 x 100, 150 x 150, 200 x 100, 200 x 200, 300 x 200, 300 x 300, 400 x 200, 400 x 300, 400 x 400, 600 x 400
MAXIMUM BORNE WEIGHT	40 kg
ADJUSTMENTS	Horizontally adjustable 120° Vertical tilt -15°/+5° Horizontal correction ± 3°
COLOUR	Black
DIMENSIONS	Distance to wall: 6.2 to 46.8 cm TV plate: 65.5 x 13.5 cm Width adjustable from 3 to 60 cm x 42 cm height Wall plate: 47.5 x 18.4 cm
WEIGHT	2.8 kg
ACCESSORIES	Spirit level Cable clamps. Screws and mounting accessories

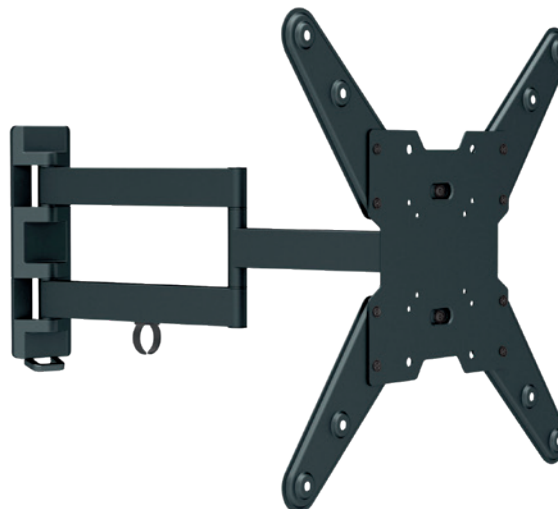
TV MOUNTS

ADJUSTABLE, EXTRA

Extra range of adjustable TV mounts that provide a sturdy and secure hold. They are horizontally adjustable and vertically tiltable. They include all accessories for quick and easy installation.

STV-683N

FEATURES	Adjustable TV mount
SCREEN	23" to 65" (58 to 165.1 cm)
VESA	75 x 75, 100 x 100, 200 x 100, 200 x 200, 400 x 200, 300 x 300, 400 x 400
MAXIMUM BORNE WEIGHT	35 kg
ADJUSTMENTS	Horizontally adjustable 180° Vertical tilt ± 15° Horizontal screen tilt correction
COLOUR	Black
DIMENSIONS	Distance to the wall in vertical position: 5.6 to 51 cm TV plate: 22.2 x 23.6 cm Wall plate: 6.5 x 26 cm
WEIGHT	3.5 kg
ACCESSORIES	Spirit level Cable clamps. Installation template, dowels, screws and mounting hardware



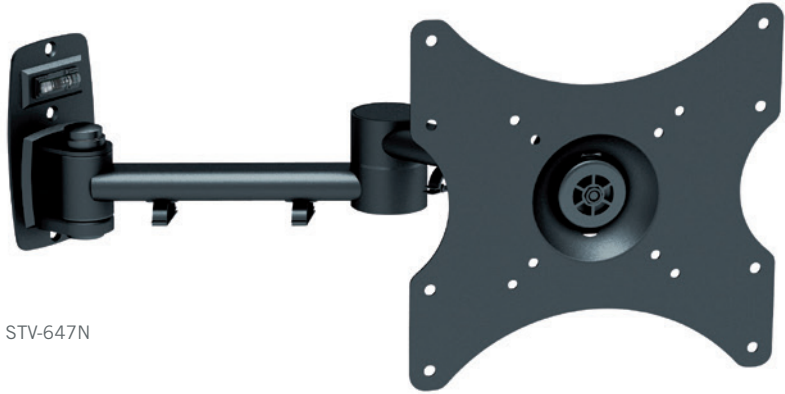
STV-651N

FEATURES	Adjustable TV mount
SCREEN	13" to 35" (33 to 88.9 cm)
VESA	75 x 75, 100 x 100
MAXIMUM BORNE WEIGHT	15 kg
ADJUSTMENTS	Horizontally adjustable 120° Vertical tilt ± 15° Swivel 360°
COLOUR	Black
DIMENSIONS	TV plate: 12 x 12 cm Wall plate: 4 x 16 cm Distance to the wall in vertical position: 8.8 cm
WEIGHT	0.7 kg
ACCESSORIES	Spirit level Cable clamps. Safety system Screws and mounting accessories



STV-643N

FEATURES	Adjustable TV mount
SCREEN	23" to 55" (58.4 to 139.7 cm)
VESA	75 x 75, 100 x 100, 200 x 100, 200 x 200
MAXIMUM BORNE WEIGHT	20 kg
ADJUSTMENTS	Horizontally adjustable 85° Vertical tilt ± 15° Swivel 360°, allows the screen to be rotated horizontally or vertically
COLOUR	Black
DIMENSIONS	Distance to the wall in vertical position: 9.6 cm TV plate: 22.5 x 22.5 cm Wall plate: 8 x 14 cm
WEIGHT	1.2 kg
ACCESSORIES	Spirit level Safety system Installation template, dowels, screws and mounting hardware



STV-647N



STV-649B (White)
 STV-649N (Black)

STV-649N
STV-649B

STV-647N

FEATURES	Adjustable TV mount	Adjustable TV mount
SCREEN	13" to 35" (33 to 38.9 cm)	23" to 55" (58 to 139.7 cm)
VESA	75 x 75, 100 x 100	75 x 75, 100 x 100, 200 x 100, 200 x 200
MAXIMUM BORNE WEIGHT	15 kg	20 kg
ADJUSTMENTS	Horizontally adjustable 180° Vertical tilt ± 15°	Horizontally adjustable 180° Vertical tilt ± 15° Swivel 360°, allows the screen to be rotated horizontally or vertically
COLOUR	Black	White
DIMENSIONS	Distance to the wall in vertical position: 8.8 to 40.8 cm TV plate: 12 x 12 cm Wall plate: 4 x 16 cm	22.5 x 22.5 cm plate with VESA 75/100/200 standard holes Wall plate: 8 x 14 cm Distance to the wall in vertical position: 9.6 to 45.6 cm
WEIGHT	1.5 kg	2 kg
ACCESSORIES	Cable clamps. Spirit level Safety system Installation template, dowels, screws and mounting hardware	Cable clamps. Spirit level Safety system Screws and mounting accessories

TV MOUNTS

ADJUSTABLE, PREMIUM

Premium range of adjustable TV mounts that provide a sturdy and secure hold.

They are horizontally adjustable and vertically tiltable.

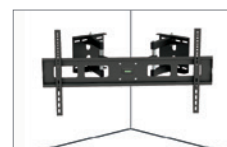
The articulated arms allow the TV to be adjusted without the need for tools.



STV-691N



STV-692N



STV-691N

STV-692N

FEATURES	Adjustable TV mount	Adjustable TV mount
SCREEN	37" to 80" (94 to 203.2 cm)	37" to 85" (94 to 215.9 cm)
VESA	200 x 200, 300 x 300, 400 x 200, 400 x 400, 600 x 400, 800 x 400	200 x 200, 300 x 300, 400 x 200, 400 x 400, 600 x 400, 800 x 400
MAXIMUM BORNE WEIGHT	60 kg	60 kg
ADJUSTMENTS	Two articulated arms Horizontally adjustable 120° Vertical tilt ± 15° Horizontal screen tilt correction	Installation in corners Two articulated arms Horizontally adjustable 60° Vertical tilt ± 15° Horizontal screen tilt correction
COLOUR	Black	Black
DIMENSIONS	Width adjustable from 5 to 82 cm x 40 cm height Wall plate: 45.5 x 20.5 cm Distance to the wall in vertical position: 12.5 to 51.5 cm	Width adjustable from 6 to 82.5 cm x 40 cm height Wall plate: 22.5 x 20.5 cm
WEIGHT	8.2 kg	8.1 kg
ACCESSORIES	Spirit level Safety system Installation template, dowels, screws and mounting hardware	Spirit level Safety system Installation template, dowels, screws and mounting hardware

Premium range of adjustable TV mounts that provide a sturdy and secure hold. They are horizontally adjustable and vertically tiltable. The articulated arms allow the TV to be adjusted without the need for tools. Special "I" shaped VESA hole plate for TV with connectors on the centre of the back panel, where square VESA plates cannot be used.



STV-685N

FEATURES	Adjustable TV mount
SCREEN	32" to 65" (81 to 165.1 cm)
VESA	200 x 200, 300 x 300, 400 x 200, 400 x 400
MAXIMUM BORNE WEIGHT	35 kg
ADJUSTMENTS	Extra-long articulated arm to rotate the screen 90° Horizontally adjustable 180° Vertical tilt $\pm 12^\circ$ Horizontal screen tilt correction
COLOUR	Black
DIMENSIONS	Adjustable TV plate Wall plate: 48 x 17 cm Distance to the wall in vertical position: 4 to 61 cm
WEIGHT	5.3 kg
ACCESSORIES	Spirit level Quick lock system Fischer plugs, screws and mounting accessories

MOV-384PR

FEATURES	Adjustable TV mount.
SCREEN	43" to 80" (109 a 203 cm)
VESA	200 x 200, 300 x 200, 300 x 300, 400 x 200, 400 x 300, 400 x 400, 600 x 400, 800 x 400
MAXIMUM BORNE WEIGHT	50 kg
ADJUSTMENTS	Horizontally adjustable 180°. Allows to position the TV perpendicular to the wall Vertically tiltablei $-15^\circ/+5^\circ$ Horizontal screen tilt correction $\pm 3^\circ$
COLOUR	Black
DIMENSIONS	Long articulated arm: 95.8 cm Distance to the wall in vertical position: 8.2 to 101.5 cm Width adjustable from 20 to 81.5 cm x 43 cm height Wall plate: 64.6 x 28.9 cm
WEIGHT	11 kg
ACCESSORIES	Spirit level Safety system Cable clamps. Installation template, fischer dowels, screws and mounting accessories



TV MOUNTS

QLED / LED

Extra flat wall mounts for TV.
Simple and easy installation.



STV-8242N

FEATURES	Extra flat fixed TV mount
SCREEN	OLED TV from 32" to 65" (81 to 165 cm)
VESA	100 x 100, 100 x 150, 100 x 200, 150 x 100, 150 x 150, 200 x 100, 200 x 200, 300 x 200, 400 x 200
MAXIMUM BORNE WEIGHT	30 kg
COLOUR	Black
DIMENSIONS	TV plate: 43.2 x 23 cm Wall plate: 9.9 x 14.1 cm Distance to wall: 2.2 cm
WEIGHT	1.7 kg
ACCESSORIES	Screws and mounting accessories



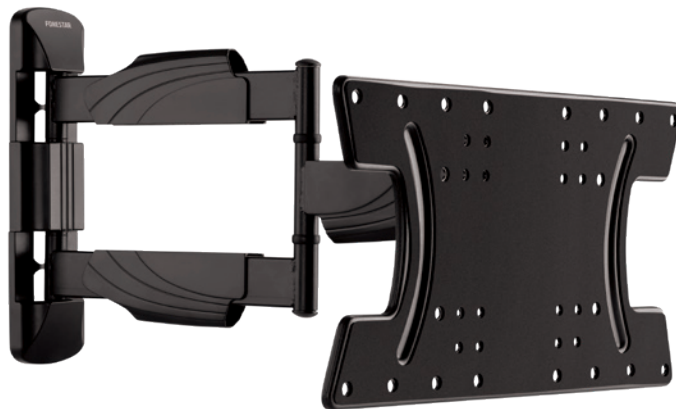
STV-8342N

FEATURES	Tilting TV mount
SCREEN	OLED TV from 32" to 65" (81 to 165 cm)
VESA	100 x 100, 100 x 150, 100 x 200, 150 x 100, 150 x 150, 200 x 100, 200 x 200, 300 x 200, 400 x 200
MAXIMUM BORNE WEIGHT	30 kg
ADJUSTMENTS	Vertical tilt -8°/+5°
COLOUR	Black
DIMENSIONS	TV plate: 43.2 x 23 cm Wall plate: 7.2 x 14 cm Distance to the wall in vertical position 5.3 cm
WEIGHT	1.9 kg
ACCESSORIES	Screws and mounting accessories

STV-621Q

FEATURES	Extra flat tilting TV mount.
SCREEN	49"/55"/65" QLED TV (124/140/165 cm)
MAXIMUM BORNE WEIGHT	50 kg
ADJUSTMENTS	Vertical tilt -10° Horizontal correction ± 3°
COLOUR	Black
DIMENSIONS	Distance to wall: 1.7 cm Wall plate: 52 x 13.4 cm
WEIGHT	1.6 kg
ACCESSORIES	Spirit level Installation template, dowels, screws and mounting hardware
NOTE	Compatible with Samsung Q7C(49"/55"/65"), Q7F(49"/55"/65"), Q7FN(55"/65"), Q7CN(55"/65"), Q8C(55"/65"), Q9F(65"), Q9FN(55"/65"), Q85R(55"/65"), Q90R(55"/65"), Q900R(55"/65"), Q950R(65"), Q900(55"/65"), Q95T(55"/65")



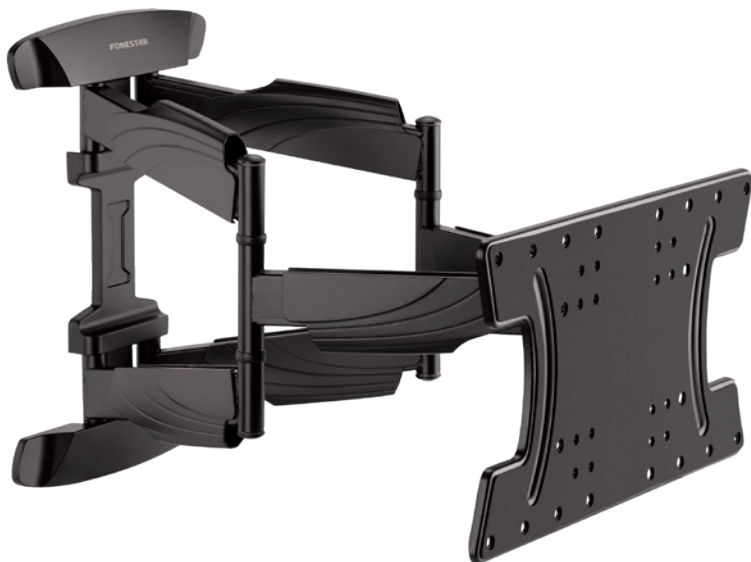


STV-8042N

FEATURES	Adjustable TV mount
SCREEN	32" to 65" (81 to 165 cm)
VESA	100 x 100, 100 x 150, 100 x 200, 150 x 100, 150 x 150, 200 x 100, 200 x 200, 300 x 200, 400 x 200
MAXIMUM BORNE WEIGHT	30 kg
ADJUSTMENTS	Articulated arm Horizontally adjustable 180° Vertical tilt -8°/+5° Horizontal correction ± 3°
COLOUR	Black
DIMENSIONS	Distance to the wall in vertical position: 5.6 to 51 cm TV plate: 43.2 x 23 cm Wall plate: 7.5 x 31.1 cm
WEIGHT	3.5 kg
ACCESSORIES	Spirit level Cable clamps. Screws and mounting accessories

STV-8142N

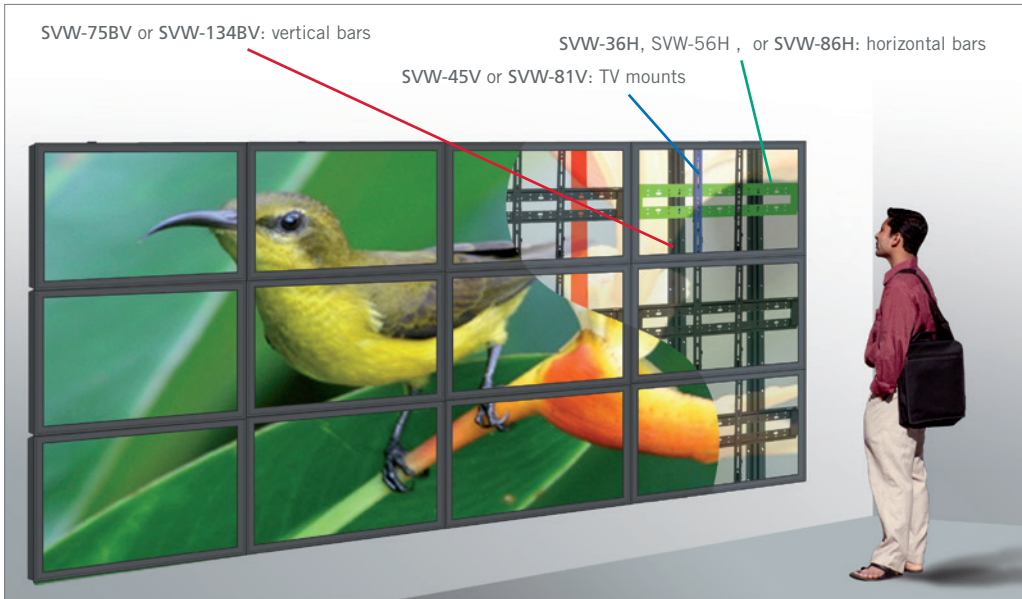
FEATURES	Adjustable TV mount
SCREEN	OLED TV from 32" to 65" (81 to 165 cm)
VESA	100 x 100, 100 x 150, 100 x 200, 150 x 100, 150 x 150, 200 x 100, 200 x 200, 300 x 200, 400 x 200
MAXIMUM BORNE WEIGHT	30 kg
ADJUSTMENTS	Two articulated arms Horizontally adjustable 120° Vertical tilt -8°/+5° Horizontal correction ± 3°
COLOUR	Black
DIMENSIONS	TV plate: 43.2 x 23 cm Wall plate: 25.6 x 37.1 cm Distance to the wall in vertical position: 5 to 51 cm
WEIGHT	5.3 kg
ACCESSORIES	Cable clamps. Screws and mounting accessories



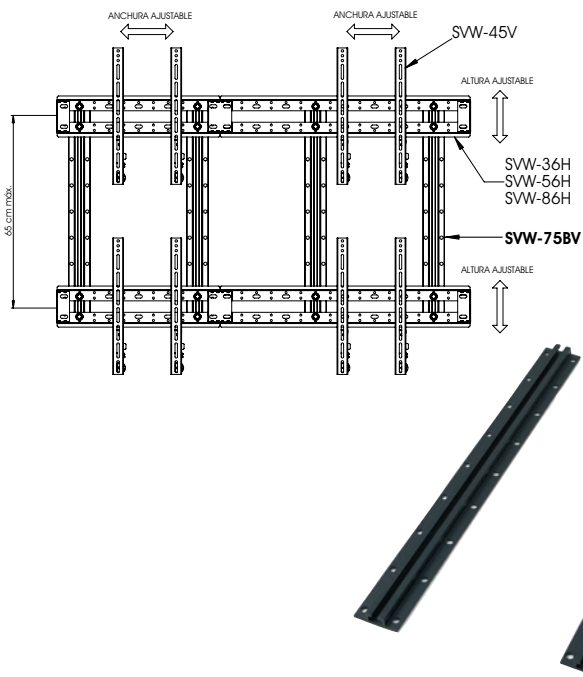
TV MOUNTS

VIDEO WALL

Vertical bars for video wall brackets. Wall installation with vertical adjustment of horizontal bars.



Vertical bars for video wall brackets. Wall installation with vertical adjustment of horizontal bars.



SVW-75BV

FEATURES

2 vertical bars of 79 cm.
Allows vertical adjustment of the horizontal bars.
2 rows of monitors up to 46" can be installed.
For use with horizontal bars mod. SVW-36H, SVW-56H or SVW-86H.

MAXIMUM BORNE WEIGHT 2 monitors of 50 kg each

COLOUR Black

DIMENSIONS 79 x 7.5 cm

WEIGHT 2.5 kg

OPTIONAL SVW-36H, SVW-56H and SVW-86H: horizontal bars for video wall
SVW-45V or SVW-81: TV mounts for video wall

SVW-134BV

2 vertical bars of 134 cm.
Allows vertical adjustment of the horizontal bars.
3 rows of monitors up to 46" can be installed.
For use with horizontal bars mod. SVW-36H, SVW-56H or SVW-86H.

3 monitors of 50 kg each

Black

134 x 7.5 cm

4.4 kg

SVW-36H, SVW-56H and SVW-86H: horizontal bars for video wall
SVW-45V or SVW-81V: TV mounts for video wall

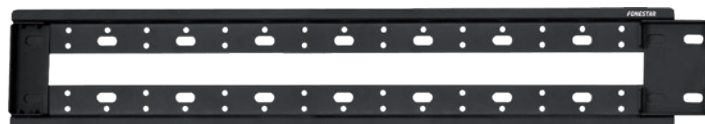
Horizontal bars for installation with vertical or wall bars.
Easily configurable for different screen sizes.



SVW-36H



SVW-56H



SVW-86H



	SVW-36H	SVW-56H	SVW-86H
FEATURES	Double horizontal bar. Includes a support end piece and a link piece. It is expandable with other horizontal bars.	Double horizontal bar. Includes a support end piece and a link piece. It is expandable with other horizontal bars.	Double horizontal bar. Includes a support end piece and a link piece. It is expandable with other horizontal bars.
COLOUR	Black	Black	Black
DIMENSIONS	36 x 14 cm	56 x 14 cm	86 x 14.3 cm
WEIGHT	1.1 kg	1.4 kg	2.1 kg
OPTIONAL	SVW-45V or SVW-81V: TV mounts for video wall SVW-75BV and SVW-134BV: horizontal bars for video wall	SVW-45V or SVW-81V: TV mounts for video wall SVW-75BV and SVW-134BV: horizontal bars for video wall	SVW-45V or SVW-81V: TV mounts for video wall SVW-75BV and SVW-134BV: horizontal bars for video wall

2 extra flat screen mounts for installation on horizontal bars. Easily configurable for different screen sizes.


SVW-45V

FEATURES	TV video wall mount
SCREEN	32" to 63" (81 to 160 cm)
VESA	200 x 200, 300 x 300, 400 x 200, 400 x 400, 600 x 400, 800 x 400
MAXIMUM BORNE WEIGHT	50 kg
ADJUSTMENTS	Vertical tilt -5° Vertical offset regulation
COLOUR	Black
DIMENSIONS	45 cm high Distance to wall: 4.2 cm
WEIGHT	1.6 kg
ACCESSORIES	Cable access bracket Safety system
OPTIONAL	SVW-36H, SVW-56H and SVW-86H: horizontal bars for video wall SVW-75BV and SVW-134BV: horizontal bars for video wall


SVW-81V

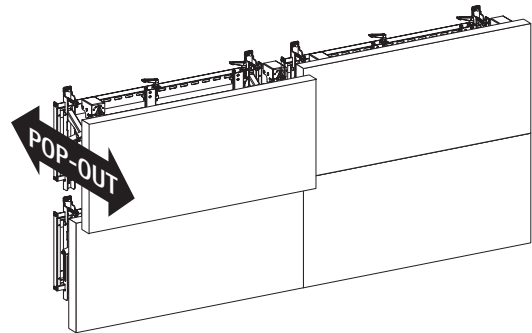
FEATURES	TV video wall mount
SCREEN	45" to 80" (81 to 160 cm)
VESA	200 x 200, 300 x 300, 400 x 200, 400 x 400, 600 x 400, 600 x 600, 800 x 700
MAXIMUM BORNE WEIGHT	50 kg
ADJUSTMENTS	Vertical offset regulation
COLOUR	Black
DIMENSIONS	81 cm high Distance to wall: 4.2 cm
WEIGHT	2.1 kg
ACCESSORIES	Cable access bracket Safety system
OPTIONAL	SVW-36H, SVW-56H and SVW-86H: horizontal bars for video wall SVW-75BV and SVW-134BV: horizontal bars for video wall

TV MOUNTS VIDEO WALL



SVW-1264N

FEATURES	Pop-out TV video wall mount.
SCREEN	45" to 70" (114 to 178 cm)
VESA	200 x 200, 300 x 300, 400 x 200, 400 x 400, 600 x 400
MAXIMUM BORNE WEIGHT	70 kg
ADJUSTMENTS	Vertical tilt $-2^{\circ}+4^{\circ}$ Wall clearance adjustment 20 mm Vertical linear adjustment 25 mm Horizontal screen tilt correction Front correction
COLOUR	Black
DIMENSIONS	Wall plate: 67 x 41.6 cm Width adjustable from 20 to 60 cm x 41 cm height Distance to wall: 9.5 cm Distance to the pop-out wall: 28.5 cm
WEIGHT	9.8 kg
ACCESSORIES	Cable access bracket Safety system



TV MOUNTS FOR SPEAKERS

Sound bar mount

SBAR-800 **NI**

FEATURES	Sound bar mount. Base adjustable in width and depth. Anti-slip and anti-vibration pads. Sound bar placed above or below the TV. Possibility to install directly on the wall. Universal compatibility. Easy and fast assembly.
VESA	800 x 400 maximum
MAXIMUM BORNE WEIGHT	15 kg
MATERIAL	Steel
COLOUR	Black
DIMENSIONS	Horizontal bar: 84.4 x 6.3 cm Vertical bars: 43.5 x 4.4 cm Adjustable width from 15 to 80 cm Adjustable depth from 8'6 to 15'5 cm
WEIGHT	2.1 kg
ACCESSORIES	Screws and mounting accessories



TV MOUNTS

ADJUSTABLE DESKTOP MOUNTS

Adjustable TV table mounts.

FONESTAR



13" to 27"



100x100 max.



8 kg

STM-6111N

FEATURES	Adjustable desk mount for monitor
SCREEN	13" to 27" (33 to 68.5 cm)
VESA	75 x 75, 100 x 100
MAXIMUM BORNE WEIGHT	8 kg
ADJUSTMENTS	Articulated arm Adjustable height from up to 45 cm Horizontally adjustable 180° Tilttable $\pm 45^\circ$ Swivel 360° Two installation possibilities: mounting on the edge of the desk or inside the desk by drilling a hole for the screw
COLOUR	Black
DIMENSIONS	Monitor plate: 11.6 x 11.3 cm Maximum thickness of the table 8.8 cm Maximum boom length: 42.8 cm
WEIGHT	2.9 kg
ACCESSORIES	Cable clamps. Screws and mounting accessories



13" to 27"



100x100 max.



2x8 kg

STM-6211N

FEATURES	Adjustable TV desk mount
SCREEN	2 TVs 13" to 27" (33 to 68.5 cm)
VESA	75 x 75, 100 x 100
MAXIMUM BORNE WEIGHT	2 x 8 kg
ADJUSTMENTS	Two articulated arms Adjustable height from up to 45 cm Horizontally adjustable 180° Tilttable $\pm 45^\circ$ Swivel 360° Two installation possibilities: mounting on the edge of the desk or inside the desk by drilling a hole for the screw
COLOUR	Black
DIMENSIONS	TV plate: 11.6 x 11.3 cm plate with VESA 75/100 standard holes Maximum thickness of the table 8.8 cm Maximum boom length: 42.8 cm
WEIGHT	4.3 kg
ACCESSORIES	Cable clamps. Screws and mounting accessories

STM-7511N **N!**

FEATURES	Adjustable monitor desktop mount
SCREEN	17" to 32" (43 to 81 cm)
VESA	75 x 75, 100 x 100
MAXIMUM BORNE WEIGHT	9 kg
ADJUSTMENTS	Horizontal swivelling 180°. Vertically tilttable $\pm 45^\circ$. 360° rotatable, allows the display to be rotated horizontally or vertically Removable VESA plate
COLOUR	Black
DIMENSIONS	VESA plate: 11.7 x 11.77 cm Base: 39 x 2.5 x 28 cm Tube: 39.6 cm x 3.5 cm \varnothing Height adjustable up to 36.1 cm (centre of the VESA plate)
WEIGHT	2.3 kg
ACCESSORIES	Cable clamps Screws and mounting accessories



17" to 32"



100x100 max.



9kg

TV MOUNTS

ADJUSTABLE DESKTOP MOUNTS

Adjustable TV table mounts.

STM-7512N **NI**

FEATURES	2 monitor adjustable desktop mount
SCREEN	17" to 32" (43 to 81 cm)
VESA	75 x 75, 100 x 100
MAXIMUM BORNE WEIGHT	2 x 9 kg
ADJUSTMENTS	Horizontally adjustable 180°. Vertically tiltable $\pm 45^\circ$. 360° rotatable, allows the display to be rotated horizontally or vertically Fine height adjustment Removable VESA plate
COLOUR	Black
DIMENSIONS	VESA plate: 11.7 x 11.7 cm Base: 39 x 2.5 x 28 cm Tube: 39.6 cm x 3.5 cm \varnothing Maximum arm length: 37.6 cm Height adjustable up to 36.1 cm (centre of the VESA plate)
WEIGHT	3.6 kg
ACCESSORIES	Cable clamps Screws and mounting accessories



STM-44NT **NI**

FEATURES	Adjustable TV desk mount
SCREEN	32" to 55" (81 to 139.7 cm)
VESA	100 x 100, 200 x 200, 300 x 200, 300 x 300, 400 x 200, 400 x 300, 400 x 400
MAXIMUM BORNE WEIGHT	40 kg
ADJUSTMENTS	Horizontal rotation angle: $\pm 35^\circ$ Three height adjustment positions
COLOUR	Black
DIMENSIONS	TV plate: 46 x 15 cm Adjustable width from 20 cm to 40 cm Adjustable height three positions: 37.4, 43.2, 49 cm (centre of TV bars) Base: 40 x 0.8 x 28 cm
WEIGHT	5.8 kg
ACCESSORIES	Cable clamps Screws and mounting accessories



TV MOUNTS

ADJUSTABLE CEILING MOUNTS

Folding ceiling mount for TV from 17" to 37". It allows the mount to be folded 90° so that it is positioned horizontally parallel to the roof.



STV-667N

FEATURES	Folding TV ceiling mount
SCREEN	17" to 37" (43 to 94 cm)
VESA	75 x 75, 100 x 100, 200 x 100, 200 x 200
MAXIMUM BORNE WEIGHT	20 kg
ADJUSTMENTS	Folding 90° Horizontally adjustable Adjustable height: from 14.5 to 28.5 cm from the ceiling to the centre of the TV plate
COLOUR	Black
DIMENSIONS	TV plate: 22 x 22 cm Ceiling plate: 10.5 cm x 16.5 cm Distance to ceiling when folded: 8.7 cm
WEIGHT	1.5 kg
ACCESSORIES	Screws and mounting accessories

Adjustable TV table mounts.



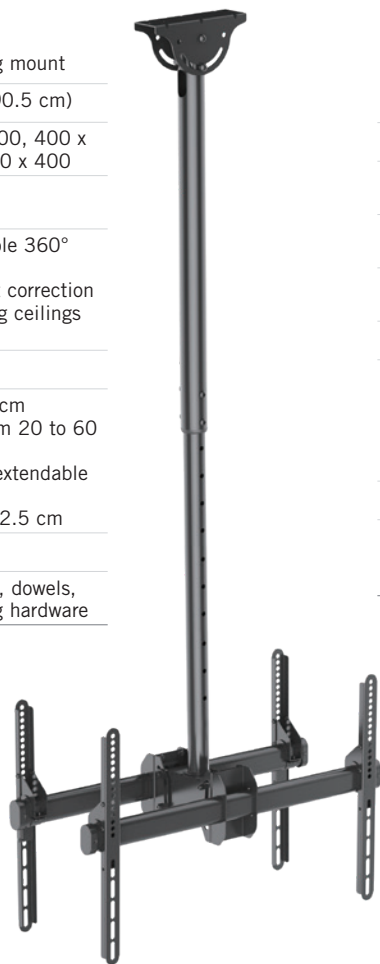
	STT-7144CN	STT-7144LN	STT-7164CN	STT-7164LN
FEATURES	Adjustable TV ceiling mount.	Adjustable TV ceiling mount	Adjustable TV ceiling mount	Adjustable TV ceiling mount
SCREEN	32" to 85" (81 to 216 cm)	32" to 85" (81 to 216 cm)	37" to 85" (94 to 216 cm)	37" to 85" (94 to 216 cm)
VESA	200 x 200, 300 x 300, 400 x 200, 400 x 400	200 x 200, 300 x 300, 400 x 200, 400 x 400	200 x 200, 300 x 300, 400 x 200, 400 x 400, 600 x 400	200 x 200, 300 x 300, 400 x 200, 400 x 400, 600 x 400
MAXIMUM BORNE WEIGHT	50 kg	50 kg	50 kg	50 kg
ADJUSTMENTS	Compatible with curved TVs Horizontally adjustable 360° Vertical tilt -20°/+5° Horizontal screen tilt correction Installation in sloping ceilings from -60° to 60°	Horizontally adjustable 360° Vertical tilt -25° Horizontal screen tilt correction Installation in sloping ceilings from -60° to 60°	Horizontally adjustable 360° Vertical tilt -25° Horizontal screen tilt correction ±3° Installation in sloping ceilings from -60° to 60°	Horizontally adjustable 360° Vertical tilt -20°/+5° Horizontal screen tilt correction Installation in sloping ceilings from -60° to 60°
COLOUR	Black	Black	Black	Black
DIMENSIONS	TV plate: 48 x 43.5 cm Distance to ceiling: extendable from 56 to 91 cm Adjustable width from 20 to 40 cm x 40 cm high Ceiling plate: 20 x 6 cm	TV plate: 48 x 43.5 cm Distance to ceiling: extendable from 106 a 156 cm Width adjustable from 20 to 40 cm x 40 cm height Ceiling plate: 5.5 x 20 cm	TV plate: 68 x 43.5 cm Distance to ceiling: extendable from 56 a 91 cm Width adjustable from 20 to 60 cm x 40 cm height Ceiling plate: 5.5 x 20 cm	TV plate: 68 x 43.5 cm Width adjustable from 20 to 60 cm x 40 cm height Distance to ceiling: extendable from 106 a 156 cm Ceiling plate: 25 x 12.5 cm
WEIGHT	4.8 kg	5.9 kg	5.3 kg	6.2 kg
ACCESSORIES	Installation template, dowels, screws and mounting hardware	Installation template, dowels, screws and mounting hardware	Installation template, dowels, screws and mounting hardware	Installation template, dowels, screws and mounting hardware

TV MOUNTS

ADJUSTABLE CEILING MOUNTS

Adjustable TV table mounts.

STT-7164DLN	
FEATURES	Adjustable TV ceiling mount
SCREEN	37" to 75" (94 to 190.5 cm)
VESA	200 x 200, 300 x 300, 400 x 200, 400 x 400, 600 x 400
MAXIMUM BORNE WEIGHT	2 x 45 kg
ADJUSTMENTS	Horizontally adjustable 360° Vertical tilt -20°/+5° Horizontal screen tilt correction Installation in sloping ceilings from -60° to 60°
COLOUR	Black
DIMENSIONS	TV plate: 68 x 43.5 cm Width adjustable from 20 to 60 cm x 40 cm height Distance to ceiling: extendable from 106 a 156 cm Ceiling plate: 25 x 12.5 cm
WEIGHT	8.8 kg
ACCESSORIES	Installation template, dowels, screws and mounting hardware

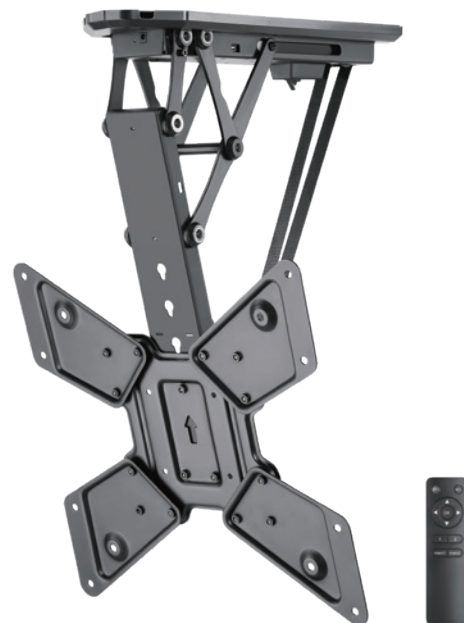


STV-666P STV-666N	
FEATURES	Adjustable TV ceiling mount
SCREEN	23" to 42" (58 to 107 cm)
VESA	75 x 75, 100 x 100, 200 x 100, 200 x 200
MAXIMUM BORNE WEIGHT	30 kg
ADJUSTMENTS	COLOUR Vertical tilt ± 20°
COLOUR	Silver Black
DIMENSIONS	Distance to ceiling: extendable from 60 a 85 cm TV plate: 22 x 22 cm with standard holes Ceiling plate: 15 cm Ø
WEIGHT	1.9 kg
ACCESSORIES	Installation template, dowels, screws and mounting hardware



■ STV-666P (Silver)
■ STV-666N (Black)

STTEL-44N NI	
FEATURES	Motorised TV ceiling mount
SCREEN	23" to 55" (58.4 to 139.7 cm)
VESA	100 x 100, 200 x 200, 300 x 300, 400 x 200, 400 x 400
MAXIMUM BORNE WEIGHT	30 kg
ADJUSTMENTS	Folding 75° Horizontal correction: ±3°
COLOUR	Black
POWER SUPPLY	24 V DC, 1.5 A with adapter included
DIMENSIONS	Distance to ceiling when folded: 10.8 cm TV plate: 43.5 x 43.5 cm (with extensions for VESA 400 x 400) Height: From 10.8 to 44.5 cm (centre of TV plate)
WEIGHT	7.15 kg
ACCESSORIES	RF remote control Cable clamp Installation template, fischer plugs, screws and mounting accessories



TV MOUNTS

ADJUSTABLE FLOOR MOUNTS

Adjustable TV floor mount.

FONESTAR



STS-4064P

FEATURES

Adjustable TV floor mount.
Installation in horizontal and vertical screen.
DVD/DVB-T and camera support trays (included).
Wheels with brake.
Tube with grommet.
It is delivered disassembled with instructions and mounting accessories.

STS-40106P

Adjustable TV floor mount.
DVD/DVB-T and camera support trays (included).
Wheels with brake.
Tube with grommet.
It is delivered disassembled with instructions and mounting accessories.

SCREEN	37" to 70" (94 to 178 cm)	60" to 100" (152 to 254 cm)
VESA	200 x 200, 300 x 300, 400 x 200, 400 x 400, 600 x 400	200 x 200, 300 x 300, 400 x 200, 400 x 400, 600 x 400, 800 x 400, 800 x 600, 1000 x 600
MAXIMUM BORNE WEIGHT	50 kg	100 kg
ADJUSTMENTS	Vertical tilt -12°/+5° Swivel 90°	Vertical tilt -10°/+5°
COLOUR	Silver	Silver
DIMENSIONS	Width adjustable from 20 to 60 cm x 40 cm height maximum Compatible with VESA 600 x 400 maximum With wheels: height adjustable 120-160 cm Base: 83 x 70 cm depth Wheels: 75 mm DVD/DVB-T support tray: 45 x 34 cm depth Metal camera tray: 29 x 15 cm depth	Width adjustable from 20 to 100 cm x 60 cm height maximum Compatible with VESA 1,000 x 600 maximum With wheels: height adjustable 120-160 cm Base: 114 x 70 cm depth Wheels: 75 mm DVD/DVB-T support tray: 43 x 34 cm depth Metal camera tray: 29 x 15 cm depth
WEIGHT	21.1 kg	30 kg
ACCESSORIES	Screws and mounting accessories	Screws and mounting accessories

TV MOUNTS

ADJUSTABLE FLOOR MOUNTS

Adjustable floor and ceiling TV mount.



STS-4264N

FEATURES

Adjustable TV floor mount.
Compatible with curved TVs.
DVD/DVB-T and camera support trays (included).
Wheels with brake.
Tube with grommet.
It is delivered disassembled with instructions and mounting accessories.

STS-42106N

Adjustable TV floor mount.
DVD/DVB-T and camera support trays (included).
Wheels with brake.
Tube with grommet.
It is delivered disassembled with instructions and mounting accessories.

SCREEN	37" to 70" (94 to 178 cm)	60" to 100" (152 to 254 cm)
VESA	200 x 200, 300 x 300, 400 x 200, 400 x 400, 600 x 400	200 x 200, 300 x 300, 400 x 200, 400 x 400, 600 x 400, 800 x 400, 800 x 600, 1000 x 600
MAXIMUM BORNE WEIGHT	50 kg	100 kg
ADJUSTMENTS	Vertical tilt $-10^{\circ}/+10^{\circ}$ Swivel 90° the screen to be rotated horizontally or vertically	Vertical tilt $-10^{\circ}/+5^{\circ}$
COLOUR	Black	Black
DIMENSIONS	Width adjustable from 20 to 60 cm x 40 cm height maximum With wheels: height adjustable 129-160 cm Base: 91 x 68 cm depth Wheels: 50 mm DVD/DVB-T support tray: 43 x 34 cm depth Metal camera tray: 29 x 15 cm depth	Width adjustable from 20 to 100 cm x 60 cm height maximum Compatible with VESA 1,000 x 600 maximum With wheels: height adjustable 134-166 cm Base: 135 x 68 cm depth Wheels: 50 mm DVD/DVB-T support tray: 43 x 34 cm depth Metal camera tray: 29 x 15 cm depth
WEIGHT	21.4 kg	33.4 kg
ACCESSORIES	Screws and mounting accessories	Screws and mounting accessories



STS-5364P

FEATURES	Adjustable TV floor and ceiling mount Floor and optional ceiling bolt installation. DVD/DVB-T support tray included.
SCREEN	37" to 70" (94 to 178 cm)
VESA	200 x 200, 300 x 200, 300 x 300, 400 x 200, 400 x 300, 400 x 400, 600 x 400
MAXIMUM BORNE WEIGHT	30 kg
ADJUSTMENTS	Swivel 180°
COLOUR	Silver and black
DIMENSIONS	VESA compatible 200/300/400, 300 x 200, 400 x 200, 400 x 300 and 600 x 400 Adjustable TV height 0.87-1.62 m. Height adjustable tray 0.5-0.85 m Total height adjustable 2.2-2.7 m Floor plate: 139 mm Ø Ceiling plate: 139 mm Ø
WEIGHT	8.1 kg
ACCESSORIES	Screws and mounting accessories

TV MOUNTS

ADJUSTABLE FLOOR MOUNTS

Adjustable TV floor mounts.



STS-4464N

FEATURES

Adjustable TV floor mount.
Manually adjustable height.
DVD/DVB-T support tray included.
Wheels with brake.
Tube with grommet.
It is delivered disassembled with instructions and mounting accessories.

STS-4664N

Adjustable TV floor mount.
DVD/DVB-T support tray included.
4 wheels (2 of them with brakes)
Tube with grommet.
It is delivered disassembled with instructions and mounting accessories.

SCREEN	32" to 65" (81 to 165 cm)	37" to 70" (94 to 178 cm)
VESA	200 x 200, 300 x 300, 400 x 200, 400 x 400, 600 x 400	200 x 200, 300 x 300, 400 x 200, 400 x 400, 600 x 400
MAXIMUM BORNE WEIGHT	35 kg	40 kg
ADJUSTMENTS	Vertical tilt $-10^{\circ}/+10^{\circ}$	Vertical tilt $\pm 10^{\circ}$
COLOUR	Black	Black
DIMENSIONS	Width adjustable from 20 to 60 cm x 50 cm height maximum Height with wheels adjustable 120-160 cm Base: 87.5 x 63 cm depth Wheels: 50 mm DVD/DVB-T support tray: 42.5 x 33.6 cm depth	Width adjustable from 20 to 60 cm x 40 cm height maximum With wheels: height adjustable 133.5, 141.5 or 149.5 cm Base: 70 x 70 cm depth Wheels: 75 mm DVD/DVB-T support tray: 48.5 x 29 cm depth Tray adjustable in height from 47 to 67 cm
WEIGHT	15.8 kg	13.4 kg
ACCESSORIES	Screws and mounting accessories	Screws and mounting accessories

Adjustable floor and ceiling TV mount

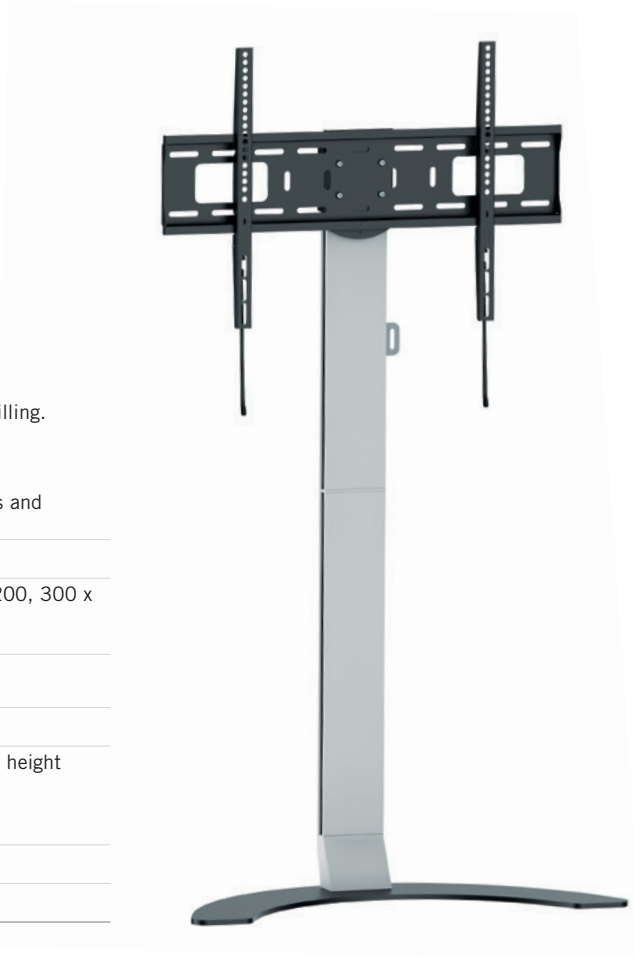


STS-4364BN

FEATURES

Adjustable TV floor and wall mount.
 Installation supported on the wall without drilling.
 Easy placement and change of place.
 Wheeled base with non-slip rubber.
 Tube with grommet.
 It is delivered disassembled with instructions and mounting accessories.

SCREEN	37" to 70" (94 to 178 cm)
VESA	100 x 100, 200 x 100, 200 x 200, 300 x 200, 300 x 300, 400 x 200, 400 x 300, 400 x 400, 600 x 400
MAXIMUM BORNE WEIGHT	30 kg
COLOUR	Black and white
DIMENSIONS	Width adjustable from 20 to 60 cm x 40 cm height maximum Adjustable height 89-109 cm Base: 71.5 x 26.6 cm depth
WEIGHT	9.9 kg
ACCESSORIES	Screws and mounting accessories



PROJECTOR MOUNTS

ADJUSTABLE CEILING MOUNTS

Adjustable ceiling mounts for projectors.

SPR-547N

SPR-547B

FEATURES	Adjustable ceiling mount for projectors		
MOUNT	Horizontally adjustable 360° Vertical tilt ± 15° Vertical tilt ± 15° Distance to ceiling: 15 cm		
MAXIMUM BORNE WEIGHT	13.5 kg		
COLOUR	Black	White	
DIMENSIONS	Adjustable to projector from 54 to 320 mm Ø Ceiling plate: 13 x 11 cm		
WEIGHT	1 kg		



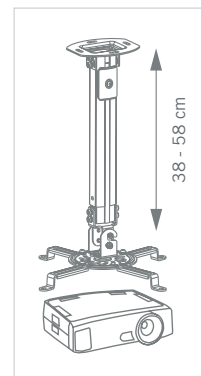
SPR-547N (Black)
SPR-547B (White)

SPR-549N

SPR-549B

SPR-549P

FEATURES	Adjustable and extendable ceiling mount for projectors. Installation on horizontal and sloping ceilings. Tube with grommet.		
MOUNT	Horizontally adjustable 360° Vertical tilt ± 15° Vertical tilt ± 15° Installation in sloping ceilings from 0° to 90° Distance to ceiling: extendable from 38 a 58 cm		
MAXIMUM BORNE WEIGHT	13.5 kg		
COLOUR	Black	White	Silver
DIMENSIONS	Adjustable to projector from 54 to 320 mm Ø Ceiling plate: 13 x 11 cm		
WEIGHT	1.2 kg		



SPR-549N (Black)
SPR-549B (White)
SPR-549P (Silver)

SPR-567P

FEATURES	Adjustable and extendable ceiling mount for projectors. Installation on horizontal and sloping ceilings. Tube with grommet.		
MOUNT	Horizontally adjustable 360° Vertical tilt ± 15° Vertical tilt ± 15° Installation in sloping ceilings from 0° to 90° Distance to ceiling: extendable from 55 a 90 cm		
MAXIMUM BORNE WEIGHT	13.5 kg		
COLOUR	Silver		
DIMENSIONS	Adjustable to projector from 54 to 320 mm Ø Ceiling plate: 13 x 11 cm		
WEIGHT	1.3 kg		

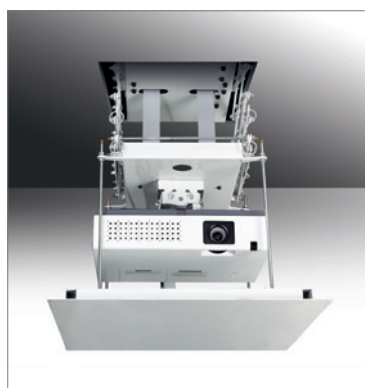


SPR-567P



SPR-570N **NI**

FEATURES	Adjustable and extendable ceiling mount for projectors. Installation on horizontal and sloping ceilings. Tube with grommet.
MOUNT	360° horizontally adjustable Can be tilted vertically $\pm 20^\circ$. Can be tilted laterally $\pm 8^\circ$. Installation on sloping ceilings from 0° to 90°. Distance to the ceiling: extendable 74.5 to 114.5 cm
COLOUR	Black
MAXIMUM BORNE WEIGHT	35 kg
DIMENSIONS	Adjustable to projector from 130 to 470 mm \varnothing Ceiling plate: 21.1 x 8.5 cm
WEIGHT	3.8 kg
WEIGHT	2.75 kg
ACCESSORIES	Full motion fixing mount $\pm 60^\circ$ in all directions Steel safety cable

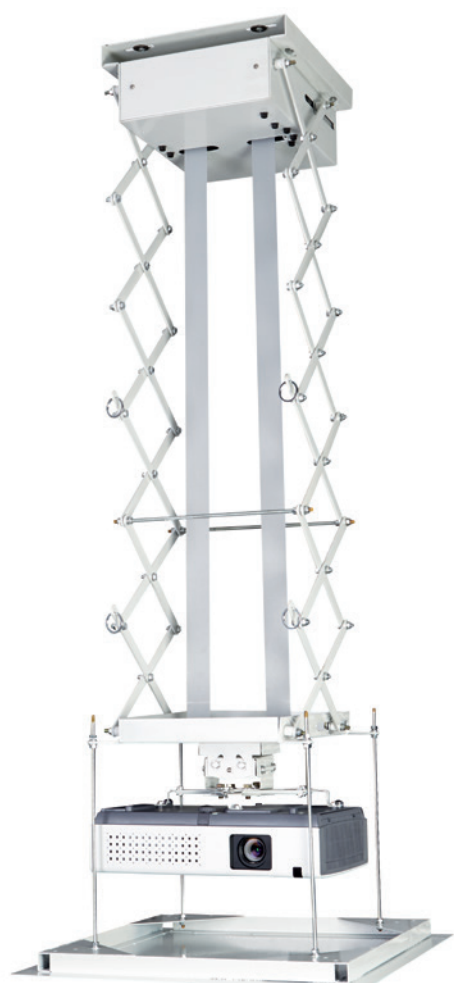


Adjustable electric ceiling mount for projectors. Adjustable lower and upper limits. Wall-mounted receiver and remote control with up, down and stop buttons. Height adjustable concealment plate that allows the installation of a ceiling plate to completely hide the projector and mount.



SPREL-1B

FEATURES	Adjustable electric ceiling mount for projectors. Dual motor. Wall receiver. Remote control. Concealment plate.
MOUNT	Vertical tilt $\pm 20^\circ$ Vertical tilt $\pm 15^\circ$ Horizontally adjustable Maximum lowering: 100 cm
MAXIMUM BORNE WEIGHT	20 kg
COLOUR	Grey-white (RAL 9002)
DIMENSIONS	Recessed mount, distance to the ceiling (without projector): 27 cm Ceiling plate: 32 x 29.5 cm Concealment plate: 50 x 50 cm Projector mount: 4 arms from 8.5 to 14 cm adjustable to the projector
WEIGHT	15 kg
POWER SUPPLY	230 V AC, 76 W

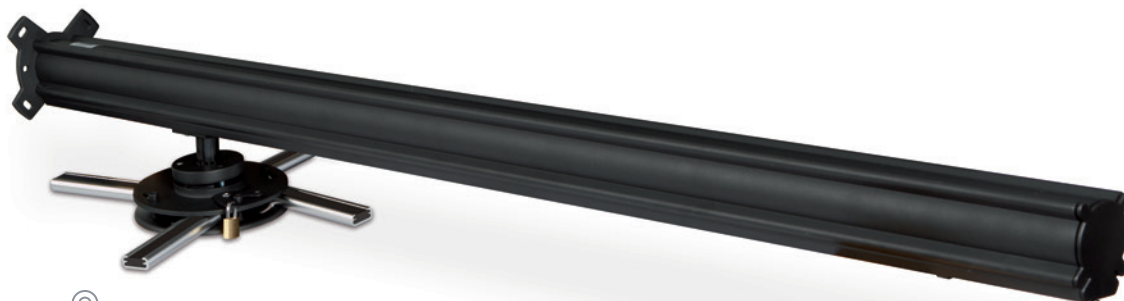


(Projector not included)

PROJECTOR MOUNTS

WALL

Wall mount for projectors.



15 kg

SPR-552

FEATURES	Adjustable wall mount for projectors.
MOUNT	Horizontally adjustable 360° Vertical tilt $\pm 15^\circ$ Arm length: 130 cm Distance to wall: 8 to 127 cm Cable clamps. Spirit level Safety system
MAXIMUM BORNE WEIGHT	15 kg
COLOUR	Black
DIMENSIONS	4 arms of 12.5, adjustable to the projector Wall plate: 11 x 11 cm
WEIGHT	3.7 kg
ACCESSORIES	Safety lock Anti-theft screws

PROJECTOR MOUNTS

FLOOR

Floor mounts for video projectors and multimedia applications.
Adjustable height.



10 kg

SPS-403N

FEATURES	Floor mount for video projectors. Two height-adjustable metal trays, the upper one adjustable in inclination, for video projectors and laptop or player DVD, Wheels with brake. Easy assembly. Instructions and mounting accessories included.
MAXIMUM BORNE WEIGHT	10 kg
COLOUR	Black
DIMENSIONS	Adjustable height (with wheels): 95 to 145 cm Base: 45 x 50 cm depth Wheels: 50 mm Top tray: 35 x 30 cm depth Laptop support tray: 36 x 30 cm depth
WEIGHT	9.2 kg



PROJECTOR MOUNTS

SAFETY BOX FOR PROJECTORS

FONESTAR

Metal anti-theft safety cases for projectors. Specially designed to prevent theft of your projector.



20 kg

SPRBOX-568N

SPRBOX-568P

SPRBOX-568B



FEATURES	Metal anti-theft safety case for projectors.		
COLOUR	Black	Silver	White
MAXIMUM BORNE WEIGHT	20 kg		
DIMENSIONS	405 x 200 x 485 mm depth		
WEIGHT	7.3 kg		
OPTIONAL	SPR-547N or SPR-549N: projector mounts		



SPRBOX-568N (Black)
SPRBOX-568B (White)
SPRBOX-568P (Silver)

MICROWAVE MOUNTS

Adjustable microwave mount.



35 kg

SMO-200

FEATURES	Adjustable microwave mount.	
ADJUSTMENTS	Bottom from 38.5 to 53.5 cm	
MAXIMUM BORNE WEIGHT	35 kg	
COLOUR	White (RAL 9010)	
DIMENSIONS	Wall plate: 43 x 4.3 cm depth	
WEIGHT	2.2 kg	
ACCESSORIES	Installation template, dowels, screws and mounting hardware	



35 kg

SMO-300

FEATURES	Adjustable microwave mount.	
ADJUSTMENTS	Adjustable depth from 33 to 50 cm	
MAXIMUM BORNE WEIGHT	35 kg	
COLOUR	White (RAL 9010)	
DIMENSIONS	-	
WEIGHT	1.9 kg	
ACCESSORIES	-	

> Supports iconography



Screen Size



VESA compatible



Maximum borne weight

320 CABLES, ADAPTERS AND CONNECTORS

322 Audio

322 Cables

323 Adapters

324 Connectors

324 Digital audio

324 Cables

324 Adapters

324 Professional audio

324 Cables

326 Adapters

326 Connectors

327 Video

327 Cables

329 Adapters

329 Connectors

329 HDMI

329 Cables

332 Adapters

332 Testers

333 VGA

333 Cables

334 DVI, DFP

334 Cables

334 Adapters

334 USB

334 2.0 USB cables

336 3.1 USB type C cables

337 AC power supply

337 Cables

337 Connectors

338 Cable rolls

338 A/V

340 VGA

341 Speaker

344 Microphone/line

345 DMX

345 HDMI

346 Telephony

346 Cables

346 Connectors

346 Cable rolls

346 Voice and data

347 Cat 6 cables

347 Testers

348 Cat 5e cable rolls

348 Cat 6 cable rolls


349 Tools

349 Electronic accessories

349 Fans

349 Grilles

349 Sprays



CABLES,
ADAPTERS AND
CONNECTORS

AUDIO CABLES



AA-203

2 male RCA | 2 male RCA

1.8 m length

AA-203-070

0.7 m

Same features as mod. AA-203. 0.7 m length

AA-203-3

3 m

Same features as mod. AA-203. 3 m length

AA-203-5

5 m

Same features as mod. AA-203. 5 m length

AA-203-10

10 m

Same features as mod. AA-203. 10 m long



AA-204

2 male RCA | 2 RCA female

1.8 m length



AA-225

RCA male | 2 RCA female

0.15 m length



AA-425L

Slick wire

3.5 mm stereo female jack | 3.5 mm stereo male jack

4.5 m length

AA-425L-2

1.8 m

Same features as mod. AA-425L. 1.8 m length



AA-465

3.5 mm stereo male jack | 2 x 3.5 mm stereo female jack

0.18 m length



AA-707B

3.5 mm stereo male jack | 2 male RCA

Sleek white connector
1.5 m length

AA-707B-060

0.6 m

Same features as mod. AA-707B. 0.6 m length



AA-707N

3.5 mm stereo male jack | 2 male RCA

Stylish connector. Black colour
1.5 m length



AA-727

3.5 mm stereo male jack | 2 male RCA

1.8 m length

AA-727-3

3 m

Same features as mod. AA-727. 3 m length

AA-727-5

5 m

Same features as mod. AA-727. 5 m length

AA-727-10

10 m

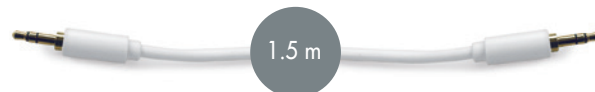
Same features as mod. AA-727. 10 m length



AA-727H

3.5 mm stereo female jack | 2 male RCA

1.8 m length




AA-709B

3.5 mm stereo male jack | 3.5 mm stereo male jack

Slim connector with gold-plated contacts White Colour
1.5 m length


**AUDIO
ADAPTERS**



AA-709N

3.5 mm stereo male jack | 3.5 mm stereo male jack

Stylish connector. Black colour
1.5 m length



AA-729

3.5 mm stereo male jack | 3.5 mm stereo male jack

1.8 m length

AA-729-3

3 m

Same features as mod. AA-729. 3 m length

AA-729-5

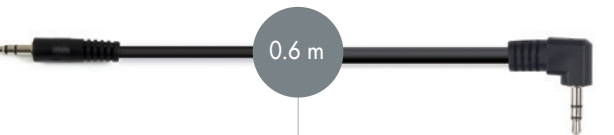
5 m

Same features as mod. AA-729. 5 m length

AA-729-10

10 m


Same features as mod. AA-729. 10 m length



AA-729A

3.5 mm stereo male jack | 3.5 mm stereo male 90° jack


0.6 m length



AA-732

2 male RCA + female adapter | 2 male RCA

1.8 m length



AA-141

2 RCA female | 6.3 mm stereo male jack

AA-141-10 **N!**
AA-141 x 10 UNITS



AA-143

2 RCA female | 3.5 mm stereo male jack

AA-143-10
AA-143 x 10 UNITS



AA-148

3.5 mm stereo female jack | 6.3 mm stereo male jack

AA-148-10 **N!**
AA-148 x 10 UNITS



AA-151

3.5 mm stereo female jack with thread | 6.3 mm stereo male jack

AA-151-10 **N!**
AA-151 x 10 UNITS



AA-411

RCA female | 6.3 mm mono male jack

AA-411-10
AA-411 x 10 UNITS



AA-453

6.3 mm stereo female jack | 3.5 mm stereo male jack

AA-453-10 **N!**
AA-453 x 10 UNITS



AA-456

3.5 mm stereo female jack | 6.3 mm stereo male jack

AA-456-10 **N!**
AA-456 x 10 UNITS



AA-460-2

2 female stereo audio RCA | 2 female stereo audio RCA

AA-460-2-10 **N!**
AA-460-2 x 10 UNITS

AUDIO CONNECTORS



S-101

6.3 mm stereo male jack
6 mm Ø cable outlet hole
Silver-plated metal



S-101G

6.3 mm stereo male jack
6 mm Ø cable outlet hole
Gold-plated metal



S-102

6.3 mm mono male jack
6 mm Ø cable outlet hole
Silver-plated metal



S-111

3.5 mm stereo male jack
4 mm Ø cable outlet hole
Silver-plated metal



7240G-NE

Gold-plated metal male RCA with spring cable output. Black line
6 mm Ø cable outlet hole

7240G-RO

Same features as mod. 7240G-NE
Red line

S-101-10 **N!**
S-101 x 10 UNITS

S-101G-10 **N!**
S-101G x 10 UNITS

S-102-10 **N!**
S-102 x 10 UNITS

S-111-10 **N!**
S-111 x 10 UNITS

7240G-NE-10 **N!**
7240G-NE x 10 UNITS

7240G-RO-10 **N!**
7240G-RO x 10 UNITS

DIGITAL AUDIO CABLES

Optical digital audio connection.



AA-790

Toslink Toslink

Fibre optic cable for digital connection in Hi-Fi systems
1 m length

AA-790-2

1.8 m

Same features as mod. AA-790. 1.8 m length

AA-790-3

3 m

Same features as mod. AA-790. 3 m length

AA-790-5

5 m

Same features as mod. AA-790. 5 m length

DIGITAL AUDIO ADAPTERS



AA-796

2 female toslink outputs | 1 female toslink input

Optical digital audio signal splitter
1 input to 2 outputs with standard toslink connectors for fibre optics
Special for optical fibre

PROFESSIONAL AUDIO CABLES

Professional audio microphone connections.



SM-675-NE

XLR female | XLR male

Special cable for 3-conductor microphone extensions
Black colour
5 m length

SM-675-NE-1

1 m

Same features as mod. SM-675-NE. 1 m length

SM-675-NE-2

2 m

Same features as mod. SM-675-NE. 2 m length

SM-675-NE-10

10 m

Same features as mod. SM-675-NE. 10 m length



SM-674 **N!**

XLR female 3.5 mm TRS jack

Special cable to adapt microphone outputs to 3.5 mm
Signal: Pin 2 to tip (Tip) and ring (Ring)
GND: Pin 1 and 3 to housing (Sleeve)
Black colour
2 m length

Professional audio mixers/power amplifiers connections.



SM-678

2 gold-plated male RCA 2 male XLR

Professional stereo connector cable with 2-conductor shielded cables,
for mixers, amplifiers, etc.
1.5 m length



SM-679

6.3 mm stereo male jack XLR male

Special cable for microphones and balanced
3-conductor signals
1.5 m length



SM-680

2 XLR female 2 male XLR

Professional stereo connector cable with 3-conductor shielded cables,
balanced line for connecting a mixer to a power amplifier, audio
processor, etc.
1.5 m length



SM-681

2 x 6.3 mm stereo jack 2 male XLR

Professional stereo connector cable with 3-conductor shielded cables,
balanced line for connecting a mixer to a power amplifier, audio
processor, etc.
1.5 m length

Professional audio loudspeaker connections.



SP-820-10

Male loudspeaker connector Male loudspeaker connector

Speaker cable 2 x 1.5 mm²
7 mm Ø cable and male speaker connectors
10 m length

SP-820-20

20 m
Same features as mod. SP-820-10. 20 m length

PROFESSIONAL AUDIO ADAPTERS



SM-557
XLR female | XLR female



SM-558
XLR male | XLR male



SM-560
6.3 mm mono male jack | XLR female



SM-570
6.3 mm stereo male jack | XLR female



SM-571
6.3 mm stereo male jack | XLR male



SM-581
RCA female | XLR male



SP-805
4 pin female speaker connector | 4 pin female speaker connector

PROFESSIONAL AUDIO CONNECTORS



SM-551
XLR male
4 mm Ø cable outlet hole



SM-552
XLR female
4 mm Ø cable outlet hole



SM-553
XLR male
Attachment to chassis and panel for 19" rack mod. FRP-31XLR
Black colour



SM-554
XLR female
Attachment to chassis and panel for 19" rack mod. FRP-31XLR
Black colour



SM-555
XLR 3 pin male
5 mm Ø cable outlet hole



SM-556
XLR 3 pin female
5 mm Ø cable outlet hole



SM-561
XLR female
Attachment to chassis



SM-591
Mini XLR female
2 mm Ø cable outlet hole

VIDEO CABLES



SP-800

Female 4-pin loudspeaker connector with loudspeaker input/output lock
Attachment to chassis and panel for 19" rack mod. FRP-32SPK



SP-810

Male 4-pin loudspeaker connector with loudspeaker input/output lock
5 mm Ø cable outlet hole



SP-810-8

Female 8-pin loudspeaker connector with loudspeaker input/output lock
5 mm Ø cable outlet hole



SP-815

Female 4-pin loudspeaker connector with loudspeaker input/output lock
4 mm Ø cable outlet hole



SV-570

Male F Male Tv/video antenna

TV, video etc. antenna cable with coaxial RG-59U cable for radiofrequency signal and low power video connection
1.5 m length



SV-573

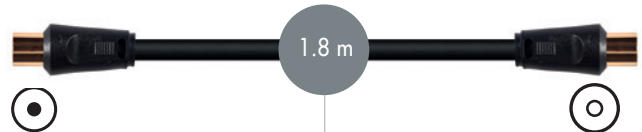
Male Tv/video antenna Female Tv/video antenna

High definition digital video connection TV antenna, video connection, etc. Highly conductive transparent cable, interference suppressor ferrites on both ends and gold-plated connectors.
1.8 m length

SV-573-3

3 m

Same features as mod. SV-573. 3 m length



SV-574

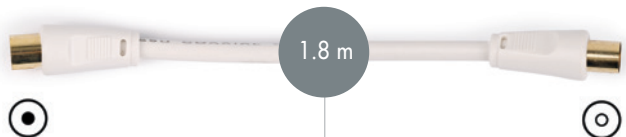
Male Tv/video antenna Female Tv/video antenna

Professional video connection. TV antenna, video connection, etc.
Gold-plated connectors
1.8 m length

SV-574-3

3

Same features as mod. SV-574. 3 m length



SV-574-BL

Male TV/video antenna Female TV/video antenna

Professional video connection. TV antenna, video connection, etc.
Gold-plated connectors Colour: White
1.8 m length

VIDEO CABLES



SV-577

90° male TV/video antenna | 90° female TV/video antenna

Professional video cable. TV, video etc. antenna cable. Interference suppressor ferrites on both ends
1.5 m length
Gold-plated connectors



SV-577-BL

90° male TV/video antenna | 90° female TV/video antenna

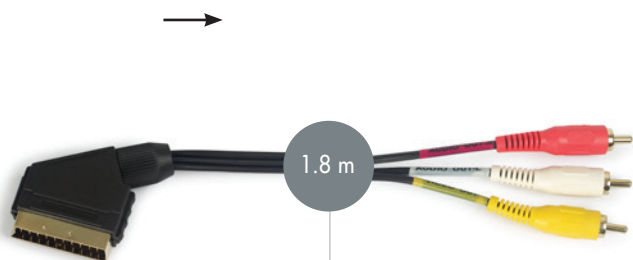
Professional video cable. TV, video etc. antenna cable. Interference suppressor ferrites on both ends
1.5 m length
Gold-plated connectors



SV-637

Gold-plated male Scart A/V input | Male RCA video + 2 male RCA stereo audio

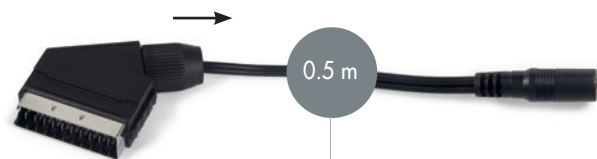
Professional stereo A/V input to Scart cable
1.8 m length



SV-637-SA

Gold-plated male Scart A/V output | Male RCA video + 2 male RCA stereo audio

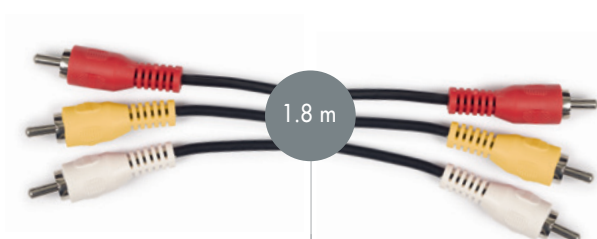
Professional stereo A/V output to Scart cable
1.8 m length



SV-645

Silver-plated male Scart audio output | 3.5 mm stereo female jack

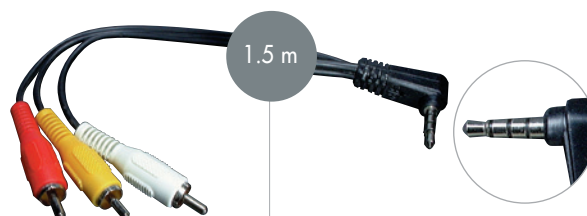
Professional stereo TV/video output connection
0.5 m length



SV-696-2

Male RCA video + 2 male RCA stereo audio | Male RCA video + 2 male RCA stereo audio

Professional connection for video cameras
Stereo video + audio
1.8 m length



SV-700

Male RCA video + 2 male RCA stereo audio | 4-contact A/V 3.5 mm male jack

Professional cable for digital video cameras with 4-contact A/V 3.5 mm male jack
1.5 m length



SV-702

Male RCA video + 2 male RCA stereo audio | 4-contact A/V 3.5 mm male jack

A/V output connection
Prong: Right audio (R)
Ring 1: Left audio (L)
Ring 2: GND
Mesh: Video
1.8 m length

VIDEO ADAPTERS



7105

BNC female | BNC female

Coaxial BNC adapter 2 females



SV-713

3 female RCA + mini DIN 4 | Male Scart

Professional input/output adapter with in/out switch
S-VHS, video and stereo audio

VIDEO CONNECTORS



7274-58

Male BNC crimp. Quick assembly
Audio/video
For 5 mm Ø RG-58 cable

7274-59

Same features as mod. 7274-58
For 6.4 mm Ø RG-59 cable

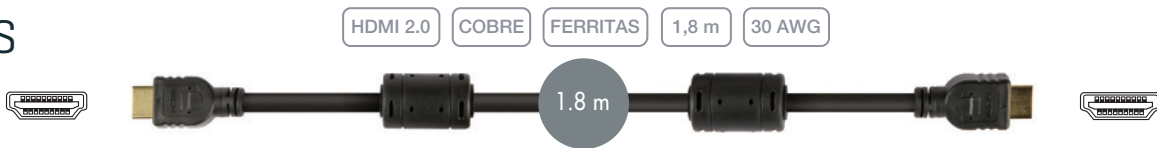
7274-58- 10 N!

7274-58 x 10 UNITS

7274-59- 10 N!

7274-59 x 10 UNITS

HDMI CABLES



7908

HDMI male | HDMI male

High quality digital A/V HDMI cable with gold-plated contacts.
UHD 4K@60Hz resolution.
18 Gbps bandwidth.
High-speed data transfer with ethernet and audio return channel.
30 AWG.
1.8 m length

7908-3

3 m

Same features as mod. 7908. 28 AWG. 3 m length

7908-5

5 m

Same features as mod. 7908. 26 AWG. 5 m length

7908-10

10 m

Same features as mod. 7908. 28 AWG. 10 m length

7908-15

15 m

HDMI male | HDMI male

High-quality digital A/V 1.4 HDMI cable with gold-plated contacts.
UHD 4K@30Hz resolution.
10 Gbps bandwidth.
High-speed data transfer with ethernet and audio return channel.
26 AWG.
15 m length

HDMI CABLES

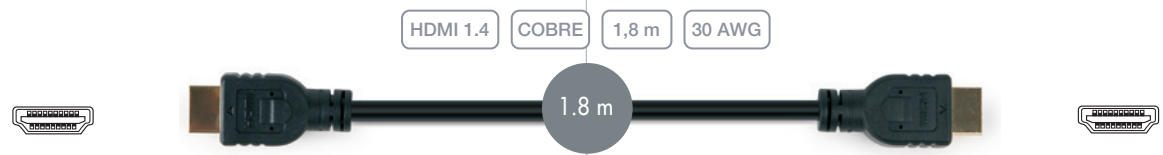


7908-20

HDMI male HDMI male

High-quality digital A/V 1.4 HDMI cable with gold-plated contacts. UHD 4K@30Hz resolution. 10 Gbps bandwidth. High-speed data transfer with ethernet and audio return channel.

24 AWG
20 m length

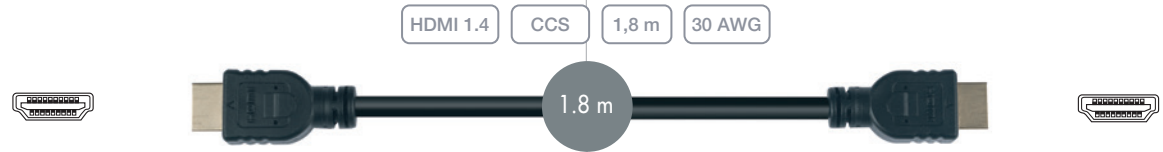


7912

HDMI male HDMI male

High-quality digital A/V 1.4 HDMI cable with gold-plated contacts. UHD 4K@30Hz resolution.

10 Gbps bandwidth
High-speed data transfer with ethernet and audio return channel.
30 AWG
1.8 m length

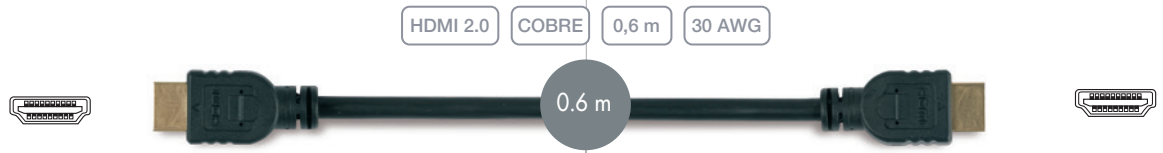


7920

HDMI male HDMI male

Digital A/V 1.4 HDMI CCS cable with gold-plated contacts. UHD 4K@30Hz resolution. 10 Gbps bandwidth. High-speed data transfer with ethernet and audio return channel.

30 AWG
1.8 m length



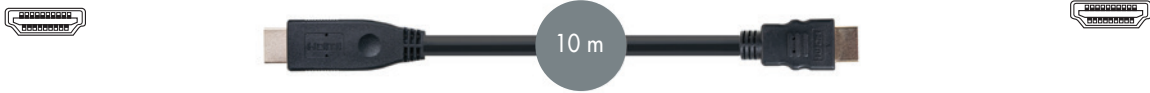
7914

HDMI male HDMI male

High-quality digital A/V HDMI cable with gold-plated contacts. Resolution UHD 4K@60Hz, (4:2:0), 12 bit. 18 Gbps bandwidth. High-speed data transfer with ethernet and audio return channel.

30 AWG
0.6 m length

HDMI 2.0 ACTIVO COBRE 10 m 28 AWG



HDMI-UHD-CA10

10 m

HDMI male HDMI male

High quality 2.0 HDMI active cable with gold-plated contacts.
 UHD 4K@60Hz resolution.
 18 Gbps bandwidth.
 High-speed data transfer with ethernet and audio return channel.
 28 AWG
 10 m length

HDMI 2.0 ACTIVO COBRE 15 m 26 AWG

HDMI-UHD-CA15

15 m

Same features as mod. HDMI-UHD-CA10. 24 AWG. 15 m length

HDMI 2.0 ACTIVO FIBRA ÓPTICA 30 m 4,8 mm



HDMI-UHD-COPT30

HDMI male HDMI male

High quality 2.0 HDMI optical cable with gold-plated contacts.
 UHD 4K@60Hz resolution.
 EMI/RFI interference protection.
 18 Gbps bandwidth.
 Compatible with HDR, CEC, and ARC (Audio Return Channel).
 Diameter of the cable 4.8 mm
 Note: One-way cable; the terminal marked "SOURCE" must be connected to the source, and the terminal marked "DISPLAY" must be connected to the TV. 30 m length

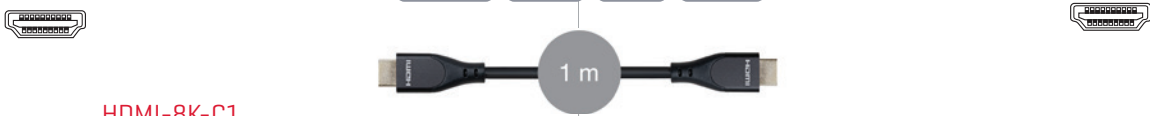
HDMI 2.0 ACTIVO FIBRA ÓPTICA 50 m 4,8 mm

HDMI-UHD-COPT50

50 m

Same features as mod. HDMI-UHD-COPT30. 24 AWG. 50 m length

HDMI 2.1 COBRE 1 m 30 AWG



HDMI-8K-C1

HDMI male HDMI male

High quality 2.1 HDMI cable and gold-plated contacts.
 PVC sheath, aluminium connector.
 8K@60Hz resolution.
 48 Gbps bandwidth.
 High-speed data transfer with ethernet and audio return channel.
 30 AWG. 1 m length

HDMI 2.1 COBRE 2 m 28 AWG

HDMI-8K-C2

2 m

Same features as mod. HDMI-8K-C1. 28 AWG. 2 m length

HDMI 2.1 COBRE 3 m 26 AWG

HDMI-8K-C3

3 m

Same features as mod. HDMI-8K-C1. 26 AWG. 3 m length

HDMI ADAPTERS



7928

HDMI female | HDMI female

Female to female HDMI adapter for digital A/V signal
 NOTE: due to signal attenuation, the signal could be lost in extensions of a certain length. The maximum transmission length depends on the characteristics of the HDMI cable and can reach up to 15 m



7933

HDMI female | HDMI male

90° female to male HDMI adapter for digital A/V signals

HDMI TESTERS



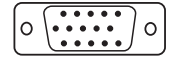
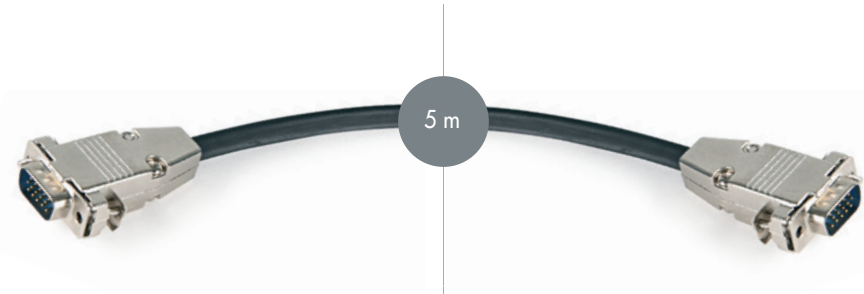
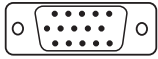
TH-791

FEATURES	HDMI cable tester. Composed of a transmitter and a receiver. For testing HDMI cable continuity and connectors. Compatible with HDMI-A to HDMI-A, HDMI-A to HDMI-C (mini) and HDMI-C (mini) to HDMI-C (mini) cables. For testing of RGB, Clock, CEC, 12C circuits, etc.
CONNECTORS	HDMI-A female HDMI-C female (mini)
INDICATOR LIGHTS	LED testing indicators
POWER SUPPLY	2 x LR6-AA batteries
DIMENSIONS	59 x 24 x 90 mm depth



TH-793

FEATURES	HDMI cable tester. Composed of one transmitter and one receiver. For testing HDMI cable continuity and connectors. Compatible with HDMI-A to HDMI-A, HDMI-A to HDMI-C (mini) and HDMI-C (mini) to HDMI-C (mini) cables. Testing of cable connection pin to pin (19 pins).
CONNECTORS	HDMI-A female HDMI-C female (mini)
INDICATOR LIGHTS	LED testing and operating indicators
POWER SUPPLY	1 x 6LR61 9 V battery
DIMENSIONS	Transmitter: 66 x 27 x 103 mm depth Receiver: 35 x 27 x 103 mm depth



7817-5

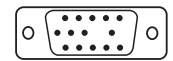
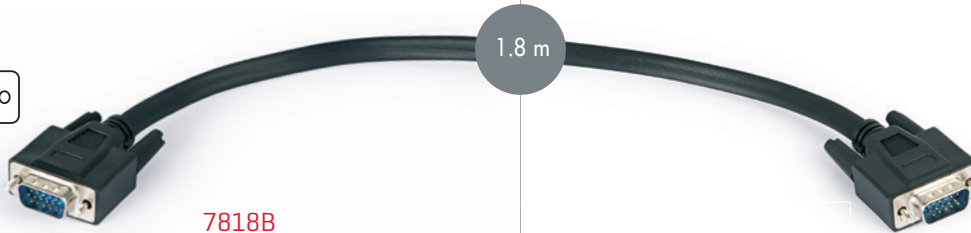
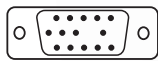
Detachable male D 15 Detachable male D 15

SVGA cable for monitors, projectors, etc. with high quality cable and detachable metal connectors for installations.
5 m length

7817-10

10 m

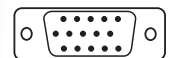
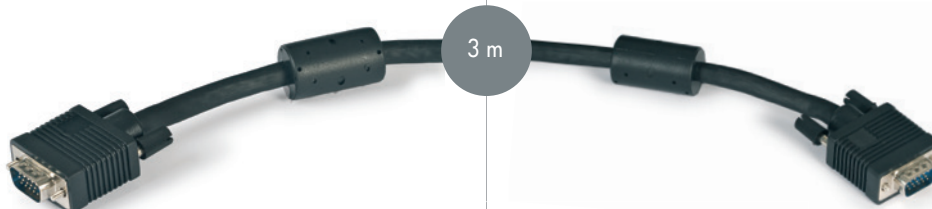
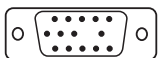
Same features as mod. 7817-5. 10 m length



7818B

Male D 15 Male D 15

SVGA cable for monitors, projectors, etc.
1.8 m length



7818-3

Male D 15 Male D 15

SVGA cable for monitors, projectors, etc. with high quality cable and interference suppression ferrites at both ends
3 m length

7818-5

5 m

Same features as mod. 7818-3. 5 m length

7818-10

10 m

Same features as mod. 7818-3. 10 m length

7818-15

15 m

Same features as mod. 7818-3. 15 m length

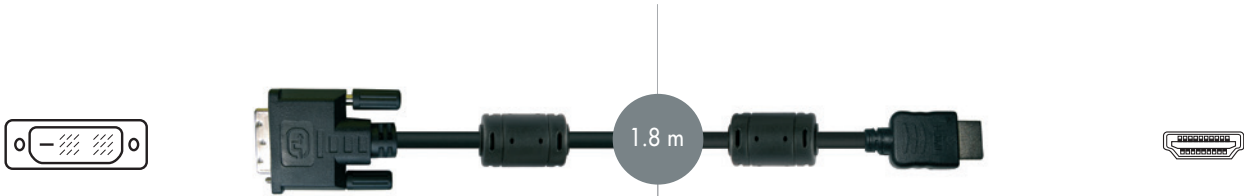
7818-20

20 m

Same features as mod. 7818-3. 20 m length

DVI, DFP CABLES

Digital A/V and computer cables DVI [Digital Visual Interface], DFP [Digital Flat Panel], VGA, etc., for plasma TV, TFT/LCD, computers, etc.



7909

Male 19-pin DVI | HDMI male

Single link DVI-D to digital A/V HDMI adapter for high speed and resolution digital signal transfer
With interference suppressor ferrites at both ends
1.8 m length

7909-5

5 m

Same features as mod. 7909. 5 m length

DVI, DFP ADAPTERS

Digital A/V and computer adapters.



7926

Male 25-pin DVI | HDMI female

DVI-D single link to HDMI A/V digital adapter
For high speed and resolution digital signal transfer

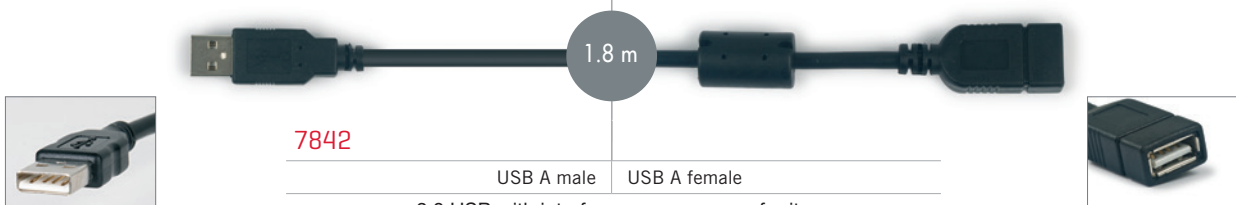
USB 2.0 USB CABLES



7821

USB A male | USB A male

2.0 USB
1.8 m length



7842

USB A male | USB A female

2.0 USB with interference suppressor ferrite
1.8 m length

7842-3

3 m

Same features as mod. 7842. 3 m length



7848-5

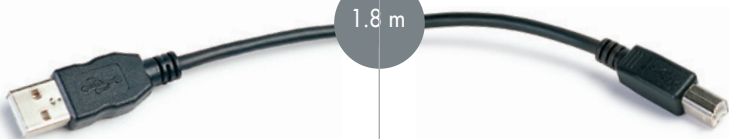
USB A male | USB A female
2.0 USB with amplifier
5 m length

7848-10

10 m
Same features as mod. 7848-5. 10 m length

7848-15

15 m
Same features as mod. 7848-5. 15 m length



7823

USB A male | USB B male
2.0 USB
1.8 m length



7843

USB A male | USB B male
2.0 USB with interference suppressor ferrite
1.8 m length



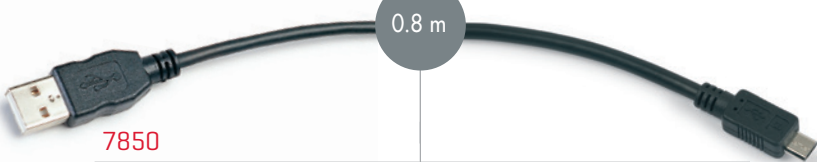
7826

USB A male | Mini USB B 5 pin male
2.0 USB
1.8 m length



7846

USB A male | Mini USB B 5 pin male
2.0 USB with interference suppressor ferrite
1.8 m length



7850

USB A male | Male micro USB B
2.0 USB
0.8 m length



7971-C

Male USB C Male USB C

Cable with 3.1 TYPE C USB connectors 480 Mbps
Data loading and transfer
1 m length



7972-C

Male USB C USB A male

Cable with 3.1 USB C to USB A connectors
480 Mbps
Data loading and transfer 1 m length



7973-C

Male USB C Male micro USB B

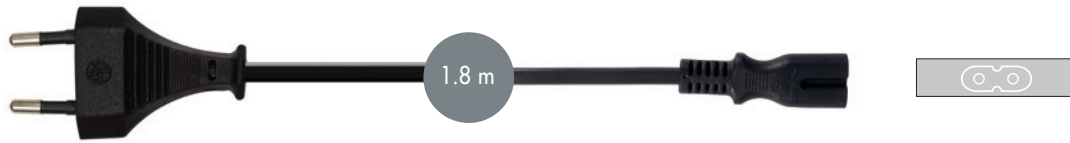
Cable with 3.1 USB C to micro USB connectors
480 Mbps
Data loading and transfer 1 m length



7974-C

Male USB C Female micro USB B

Adapter with 3.1 type C USB to micro USB 480 Mbps.
Data loading and transfer



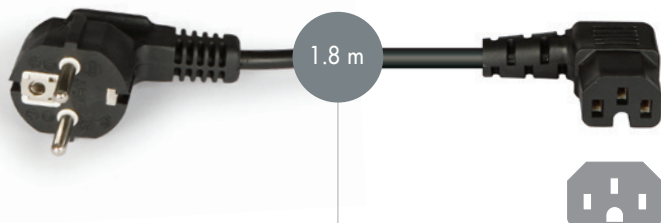
SR-448

FEATURES	AC power cable for household appliances Europlug e type 8 (IEC C7) PVC connector, 2 A 230 V 2-conductor cable. External dimensions 5 x 3 mm, Cu conductors 2 x 0.2 mm ²
COLOUR	Black
LENGTH	1.8 m



SR-420

Male Schuko	IEC 60320 C13 female
Mains cable with grounding 3 x 0.75 mm ² 1.8 m length	



SR-423

Male Schuko	90° female IEC 60320 C15 connector for high temperatures, compatible with C13
Mains cable with grounding 3 x 0.75 mm ² 1.8 m length	



SR-424

Male Schuko	IEC 60320 C5 female type mikey/ clover
Mains cable with grounding 3 x 0.75 mm ² 1.8 m length	

AC POWER CONNECTORS



S-327

IEC 60320 C13 female connector for 2-pole power connection + grounding
10 A, 250 V
8 mm Ø cable outlet hole



S-330

IEC 60320 C14 male connector for 2-pole power connection + grounding
10 A, 250 V
8 mm Ø cable outlet hole

CABLE ROLLS

A/V



CW-1 [200 m roll]

1-conductor shielded cable
Specially for audio and video connections
Outer sheath: 4 mm Ø, black PVC
Shielding: 28 copper threads of 0.1 mm Ø in a spiral
Conductor sheath: 1.05 mm Ø, white PVC
Conductors: 5 copper threads of 0.12 mm Ø and 5 CCA threads of 0.12 mm Ø (27 AWG).



CW-2 [150 m roll]

OFC copper parallel cable with 2 individually shielded conductors
Specially for replacement of headphones, connections, etc.
Dimensions: 3.8 x 1.9 mm
2 cables:
Outer sheath: 1.9 mm Ø, black PVC
Shielding: 24 copper threads of 0.12 mm Ø in a spiral
Conductor sheaths: 0.9 mm Ø, PVC, white or red
Conductors: 7 copper threads of 0.1 mm Ø (30 AWG)



CW-2B [200 m roll]

OFC copper parallel cable with 2 individually shielded conductors
Specially for audio and video connections
Dimensions: 5.4 x 2.7 mm
2 cables:
Outer sheath: 2.7 mm Ø, black PVC
Shielding: 28 copper threads of 0.12 mm Ø in a spiral
Conductor sheaths: 1.05 mm Ø, PVC, white or red
Conductors: 10 copper threads of 0.12 mm Ø (27 AWG)



CW-3 [200 m roll]

OFC copper parallel cable with 3 individually shielded conductors
Specially for audio and video connections
Dimensions: 8.1 x 2.7 mm
3 cables:
Outer sheath: 2.7 mm Ø, black PVC
Shielding: 28 copper threads of 0.12 mm Ø in a spiral
Conductor sheaths: 1.05 mm Ø, white, red or yellow PVC
Conductors: 10 copper threads of 0.12 mm Ø (27 AWG)



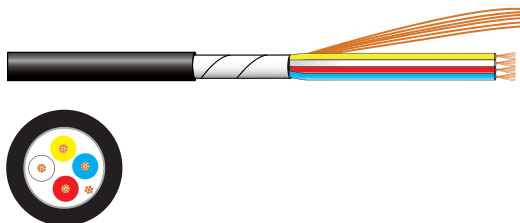
CW-3ZH [200 m roll]

LSZH sheathed cable for installations according to RBT in public areas.
OFC copper parallel cable with 3 individually shielded conductors
Specially for audio and video connections
Dimensions: 8.1 x 2.7 mm
3 cables:
Outer sheath: 2.7 mm Ø, black TPE
Shielding: 28 copper threads of 0.12 mm Ø in a spiral
Conductor sheaths: 1.05 mm Ø, transparent, red or yellow PE
Conductors: 10 copper threads of 0.12 mm Ø (27 AWG)



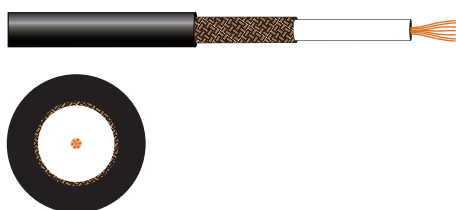
CW-7 [100 m roll]

OFC copper parallel cable with 2 individually shielded conductors
Specially for audio and video connections
Dimensions: 5 x 2.5 mm
2 cables:
Outer sheath: 2.5 mm Ø, black PVC
Shielding: 28 copper threads of 0.1 mm Ø in a spiral
Conductor sheaths: 1.05 mm Ø, PVC, white or red
Conductor: 5 copper threads of 0.12 mm Ø and 5 CCA threads of 0.12 mm Ø (27 AWG).



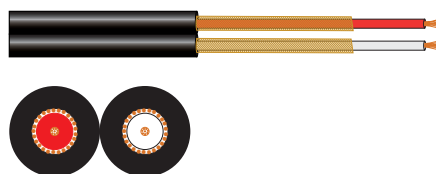
CE-47 [100 m roll]

Professional shielded cable of 4 conductors and drainage
Specially for audio and video connections
Outer sheath: 5 mm Ø, black PVC
Shielding: mylar aluminium tape
Drain: 10 copper threads of 0.1 mm Ø
4 cables:
Conductor sheaths: 1.15 mm Ø, red, blue, white or yellow
Conductor: 10 copper threads of 0.1 mm Ø



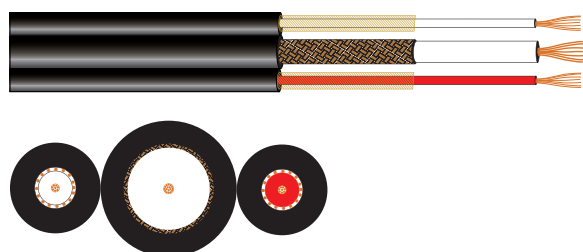
CE-56 [100 m roll]

Professional 1-conductor extra-flexible shielded high conductivity OFC cable
Specially for audio and video connections
Outer sheath: 6 mm Ø, black PVC
Shielding: 112 threads of 0.12 mm Ø copper and 85% braided coverage
Conductor sheaths: 3.7 mm Ø, white PEF
Conductor: 7 copper threads of 0.18 mm Ø (25 AWG)



CE-60-NE [100 m roll]

Highly conductive professional parallel OFC cable with 2 individually shielded conductors
Specially for audio and video connections
Dimensions: 8 x 4 mm
2 cables:
Outer sheath: 4 mm Ø, black PVC
Shielding: 40 copper threads of 0.12 mm Ø in a spiral
Conductor sheaths: 1.6 mm Ø, PEF, white or red
Conductor: 10 copper threads of 0.12 mm Ø (27 AWG)



CE-64 [100 m roll]

Professional parallel highly conductive OFC cable with 3 individually shielded conductors. Specially for audio and video connections
Dimensions: 16 x 4 mm
Video cable:
Outer sheath: 6 mm Ø, black PVC
Shielding: 112 braided copper threads of 0.1 mm Ø
Conductor sheaths: 3.8 mm Ø, white PEF
Conductor: 7 copper threads of 0.18 mm Ø (25 AWG)
2 audio cables:
Outer sheath: 4 mm Ø, black PVC
Shielding: 28 copper threads of 0.1 mm Ø in a spiral
Conductor jackets: 1.5 mm Ø, PEF, white or red
Conductor: 10 copper threads of 0.12 mm Ø (27 AWG)

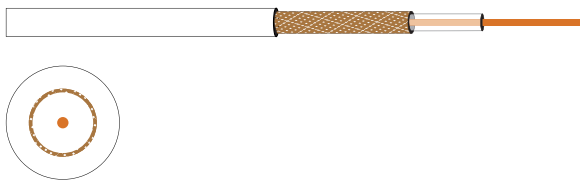
CABLE ROLLS

A/V



CE-70 [100 m roll]

Coaxial 3C2V OFC video cable, 75 Ω. Especially for video signal distribution, antenna extensions, video cables, etc.
Outer sheath: 5 mm Ø, black PVC
Shielding: 64 threads of 0.12 mm Ø copper and 59% braided coverage
Conductor sheaths: 3 mm Ø, black PE
Conductor: 1 x 0.5 mm Ø copper thread (24 AWG)



CE-70-BL [100 m roll]

Coaxial 3C2V OFC video cable, 75 Ω. Especially for video signal distribution, antenna extensions, video cables, etc.
Outer sheath: 5 mm Ø, signal white PVC (RAL 9003)
Shielding: 64 threads of 0.12 mm Ø copper and 59% braided coverage
Conductor sheaths: 3 mm Ø, black PE
Conductor: 1 x 0.5 mm Ø copper thread (24 AWG)

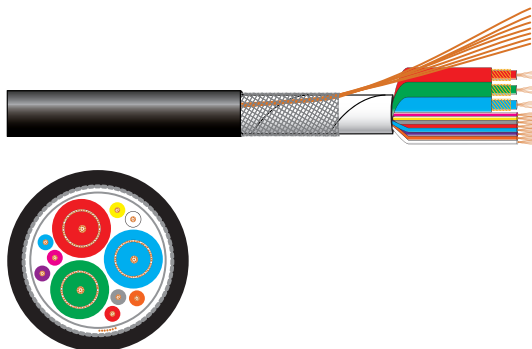


CE-72ZH [200 m roll]

LSZH sheathed cable for installations according to RBT in public areas.
Coaxial RG-59U video cable, 75 Ω. Especially for video signal distribution, antenna extensions, video cables, etc.
Outer sheath: 6 mm Ø, black TPE
Shielding: 112 threads of 0.12 mm Ø copper and 85% braided coverage
Conductor sheaths: 3.7 mm Ø, transparent PE
Conductor: 1 x CCS thread of 0.64 mm Ø (22 AWG)

CABLE ROLLS

VGA



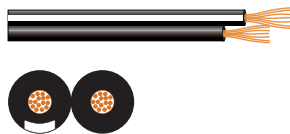
CE-78 [100 m roll]

Professional shielded OFC cable for VGA connections with 3 individually shielded RGB cables, 8 switching cables and drainage. Especially for connection of monitors, projector cables, etc.
Outer sheath: 8.5 mm Ø, black PVC
Shielding: 110 copper threads of 0.12 mm Ø braided and aluminium mylar tape
Drain: 7 copper threads of 0.1 mm Ø
3 RGB cables:
Outer sheath: 3 mm Ø, red, green or blue PEF
Shielding: 64 braided copper threads of 0.1 mm Ø
Conductor sheaths: 1.6 mm Ø, white PEF
Conductor: 10 copper threads of 0.1 mm Ø
8 switching cables:
Conductor sheaths: 1 mm Ø, purple, red, yellow, green, black, blue, white and gray PEF
Conductor: 7 copper threads of 0.12 mm Ø



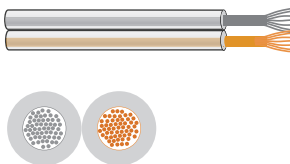
CI-10 [100 m roll]

OFC parallel cable with 2 conductors for loudspeakers
 Dimensions: 4 x 2 mm
 2 cables:
 Conductor sheaths: 2 mm Ø, black PVC with white polarity line
 Conductor: 12 copper threads of 0.16 mm Ø
 Cross-section: 0.25 mm²



CI-12 [100 m roll]

OFC parallel cable with 2 conductors for loudspeakers
 Dimensions: 5.6 x 2.8 mm
 2 cables:
 Conductor sheaths: 2.8 mm Ø, black PVC with white polarity line
 Conductor: 24 copper threads of 0.2 mm Ø
 Cross-section: 0.75 mm²



CTA-215 [100 m roll]

CCA parallel cable with 2 conductors for loudspeakers
 Dimensions: 7 x 3.5 Ø mm
 2 cables:
 Conductor sheaths: 3.5 mm Ø, transparent PVC
 Conductor: 3 sets of 28 x 0.15 mm Ø aluminium threads
 Cross-section: 1.5 mm²



CI-14-NE [200 m roll]

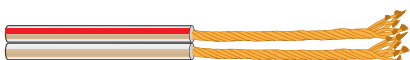
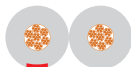
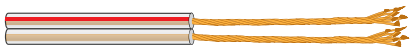
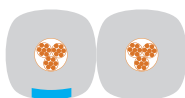
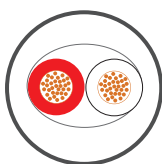
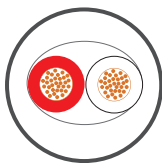
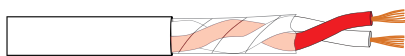
OFC parallel cable with 2 conductors and double flat insulation for 100 V line or low impedance loudspeakers
 Outer sheath: 5 x 3 mm, black PVC
 2 cables:
 Conductor sheaths: 1.8 mm Ø, brown or blue
 Conductor: 15 copper threads of 0.2 mm Ø
 Cross-section: 0.5 mm²



CI-14-BL [200 m roll]

OFC parallel cable with 2 conductors and double flat insulation for 100 V line or low impedance loudspeakers
 Outer sheath: 5 x 3 mm, white PVC
 2 cables:
 Conductor sheaths: 1.8 mm Ø, brown or blue
 Conductor: 15 copper threads of 0.2 mm Ø
 Cross-section: 0.5 mm²

CABLE ROLLS SPEAKER



CI-16 [100 m roll]

OFC cable of 2 braided conductors with double insulation to avoid inductions, for 100 V line speakers
Structural paper cover
Recommended for long lines
Outer sheath: 6.8 mm Ø, white PVC (RAL 9001)
2 cables:
Conductor sheaths: 2.5 mm Ø, white or red
Conductor: 48 copper threads of 0.2 mm Ø
Cross-section: 1.5 mm²

CI-16ZH [100 m roll]

LSZH sheathed cable for installations according to RBT in public areas.
OFC cable of 2 braided conductors with double insulation to avoid inductions, for 100 V line speakers
Structural paper cover
Recommended for long lines
Outer sheath: 6.8 mm Ø, white TPE (RAL 9001)
2 cables:
Conductor sheaths: 2.5 mm Ø, white or red
Conductor: 48 copper threads of 0.2 mm Ø
Section: 1.5 mm²

CT-20 [91 m [300 ft] roll]

OFC parallel cable with 2 conductors for loudspeakers
Dimensions: 8 x 4 mm
2 cables:
Conductor sheaths: 4 x 4 mm, transparent PVC with blue polarity line
Conductor: 3 sets of 34 x 0.12 mm Ø copper threads
Cross-section: 1.5 mm²

CT-23 [100 m roll]

OFC parallel cable with 2 conductors for loudspeakers
Dimensions: 5.6 x 2.8 mm
2 cables:
Conductor sheaths: 2.8 mm Ø, transparent PVC with red polarity line:
Conductor: 7 sets of 13 x 0.12 mm Ø copper threads
Cross-section: 1 mm²

CT-33 [100 m roll]

Professional OFC 2-conductor cable with double insulation for loudspeakers **N!**
Outer sheath: 8 mm diameter black PE
2 cables:
Conductor sheaths: 2.7 mm Ø, black or red PE

Conductor: 132 copper threads of 0.12 mm Ø
Cross-section: 1.5 mm²

CT-24 [100 m roll]

OFC parallel cable with 2 conductors for loudspeakers
Dimensions: 6 x 3 mm
2 cables:
Conductor sheaths: 3 mm Ø, transparent PVC with red polarity line:
Conductor: 7 sets of 26 x 0.12 mm Ø copper threads
Cross-section: 2 mm²

CT-24-5 [Blister 5 m]

Same features as mod. CT-24. Length: 5 m

CT-24-10 [Blister 10 m]

Same features as mod. CT-24. Length: 10 m



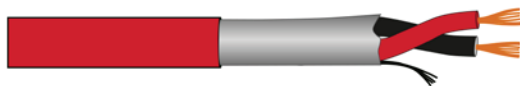
ON REQUEST



ON REQUEST



ON REQUEST



ON REQUEST

CI-15SZ1K **N!** [100 m roll]

SZ1-K speaker cable (AS+) for safety circuits.
 OFC cable of 2 braided conductors with double insulation to avoid inductions, for 100 V line speakers.
 Aluminium-polyester shielding.
 Recommended for long lines in safety installations.
 Outer sheath: 8.3 mm Ø, TM7 red
 2 cables: Conductor cover: 2.5 mm Ø cross-linked silicone type EI2, black or red
 Conductor: flexible electrolytic copper class 5
 Cross-section: 1.5 mm²

CI-15MSZ1K **N!** [500 m reel]

SZ1-K speaker cable (AS+) for safety circuits.
 OFC cable of 2 braided conductors with double insulation to avoid inductions, for 100 V line speakers.
 Aluminium-polyester shielding.
 Recommended for long lines in safety installations.
 Outer sheath: 8.3 mm Ø, TM7 red
 2 cables: Conductor cover: 2.5 mm Ø cross-linked silicone type EI2, black or red
 Conductor: flexible electrolytic copper class 5
 Cross-section: 1.5 mm²

CI-25SZ1K **N!** [100 m roll]

SZ1-K speaker cable (AS+) for safety circuits.
 OFC cable of 2 braided conductors with double insulation to avoid inductions, for 100 V line speakers.
 Aluminium-polyester shielding.
 Recommended for long lines in safety installations.
 Outer sheath: 9.6 mm Ø, TM7 red
 2 cables:
 Conductor cover: 2.5 mm Ø cross-linked silicone type EI2, black or red
 Conductor: flexible electrolytic copper class 5
 Cross-section: 2.5 mm²

CI-25MSZ1K **N!** [500 m reel]

SZ1-K speaker cable (AS+) for safety circuits.
 OFC cable of 2 braided conductors with double insulation to avoid inductions, for 100 V line speakers.
 Aluminium-polyester shielding.
 Recommended for long lines in safety installations.
 Outer sheath: 9.6 mm Ø, TM7 red
 2 cables:
 Conductor cover: 2.5 mm Ø cross-linked silicone type EI2, black or red
 Conductor: flexible electrolytic copper class 5
 Cross-section: 2.5 mm²

CABLE ROLLS MICROPHONE/LINE



CA-90-NE [100 m roll]

Shielded OFC cable with 2 braided conductors for microphones. Structural cover of paper and cotton threads. Special for balanced lines
Outer sheath: 6 mm Ø, black PVC
Shielding: 96 threads of 0.12 mm Ø copper and 85% braided coverage
2 cables:
Conductor sheaths: 1.8 mm Ø, transparent or red PE
Conductor: 30 copper threads of 0.12 mm Ø (22 AWG)



CA-90-NEZH [100 m roll]

LSZH sheathed cable for installations according to RBT in public areas. Shielded OFC cable with 2 braided conductors for microphones. Structural cover of paper and cotton threads. Special for balanced lines
Outer sheath: 6 mm Ø, black TPE
Shielding: 96 threads of 0.12 mm Ø copper and 85% braided coverage
2 cables:
Conductor sheaths: 1.8 mm Ø, transparent or red PE
Conductor: 30 copper threads of 0.12 mm Ø (22 AWG)



CA-91 [100 m roll]

Professional shielded flexible low-noise OFC cable with 2 conductors for microphones. Cotton thread structural sheath. Special for balanced lines
Outer sheath: 6 mm Ø, black PVC
Shielding: 96 braided copper threads of 0.1 mm Ø
2 cables:
Conductor sheaths: 1.5 mm Ø, white or red
Conductor: 20 copper threads of 0.1 mm Ø



CA-92 [200 m roll]

Professional shielded cable with 2 conductors for microphones and audio/video connections
Outer sheath: 4 mm Ø, black PVC
Shielding: 52 copper threads of 0.12 mm Ø in a spiral
2 cables:
Conductor sheaths: 1.2 mm Ø, white or red
Conductor: 10 x 0.12 mm Ø copper threads and 6 x 0.12 mm Ø CCA threads.



CA-93 [100 m roll]

Professional OFC shielded cable with 2 braided conductors for microphones and audio/video connections
Outer sheath: 4 mm Ø, black PVC
Shielding: 28 copper threads of 0.1 mm Ø in a spiral
2 cables:
Conductor sheaths: 1 mm Ø, white or red
Conductor: 10 copper threads of 0.1 mm Ø



CA-98 [100 m roll]

Shielded OFC extra-flexible cable with 2 braided conductors
For replacement of miniature microphones, lapel microphones, etc.
Outer sheath: 2.5 mm Ø, black PVC
Shielding: 35 copper threads of 0.1 mm Ø in a spiral
2 cables:
Conductor sheaths: 0.8 mm Ø, white or red
Conductor: 10 copper threads of 0.1 mm Ø

CABLE ROLLS DMX



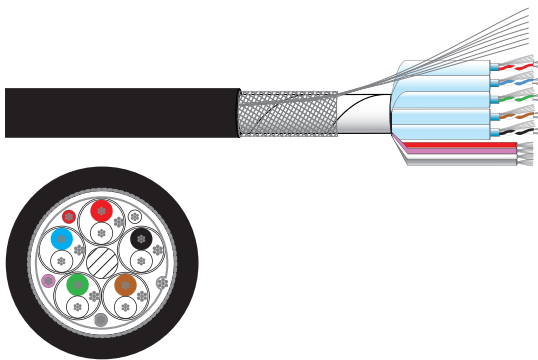
CL-26DMX

FEATURES

Balanced 2-conductor OFC cable with shield for DMX. Structural cotton sheath and fabric threads. Special for DMX communications.
 Outer sheath: 6.5 mm Ø, black PVC
 Shielding: 128 braided copper threads of 0.1 mm Ø
 2 cables:
 Conductor sheaths: 1.6 mm Ø, HDPE, white or red
 Conductor: 39 copper wires of 0.1 mm Ø + 1 tinsel wire 0.21 mm (23 AWG)

IMPEDANCE	<90 Ω/Km
ROLL	100 m

CABLE ROLLS HDMI



CH-124

[100 m roll]

Professional shielded cable for HDMI connections of 5 shielded 2-conductor twisted 2-wire data cables, 4 switching and drain wires. Especially for connection of monitors, projector cables, etc.
 Outer sheath: 7.3 mm Ø, black PVC
 Shielding: 80 braided 0.12 mm Ø aluminium wires and mylar aluminium tape
 Drain: 7 tinned copper threads of 0.12 mm Ø
 5 shielded data cables with 2 braided conductors:
 Outer sheath: 2 mm Ø, transparent mylar tape
 Shielding: mylar aluminium tape
 Drain: 7 tinned copper threads of 0.12 mm Ø
 2 conductors:
 Conductor sheath: 1 mm Ø, red, blue, green, brown, black or white
 Conductor: 7 tinned copper wires of 0.12 mm Ø (28 AWG)
 4 switching cables:
 Outer sheath: 0.65 mm Ø, red, pink, white or grey
 Conductor: 7 tinned copper wires of 0.12 mm Ø (28 AWG)

LSZH = Low Smoke and Zero Halogen
 RBT = Low Voltage Regulation
 PVC = Polyvinyl Chloride
 PE = Polyethylene
 PP = Polypropylene

TPE = Thermoplastic Elastomer
 PEF = Polyethylene Foam
 CCA = Copper Coated Aluminium
 CCS = Copper Coated Steel

TELEPHONY CABLES



TF-902 | 4 pin mini. 4 m

Extendable braided flat cable with modular connector at both ends for telephone to micro headphone connection
Ivory colour

TF-902-NE | 4 pin mini. 4 m

Same features as mod. TF-902
Black colour



TF-902A-NE | 4 pin mini. 2 m

Extendable braided flat cable with modular connector at both ends for telephone to micro headphone connection
Black colour

TELEPHONY CONNECTORS



TF-954GR | Bulk 100 u.

Miniature 4-pin 4P4C modular connector

Use in telephony facilities



TF-956GR | Bulk 100 u.

Modular connector 6P6C (RJ-12) 6 pins
Use in telephony facilities



TF-958GR | Bulk 100 u.

Modular connector 8P8C (RJ-45) 8 pins
Use in telephony facilities and telecommunications

TELEPHONY CABLE ROLL



TF-924-MA [200 m roll]

Flat cable with 4 conductors for telephony use and modular connectors

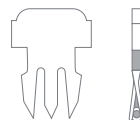
Outer sheath: 4.8 x 2.4 mm, ivory PVC

4 cables:

Conductor sheaths: 0.95 mm Ø, red, yellow, green or black PP

Conductor: 4 threads of 0.22 mm Ø tinsel

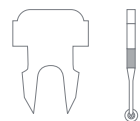
VOICE AND DATA CONNECTORS



TF-5120-GR

Bulk 100 u.

8P8C modular connector (RJ-45) with 8 gold-plated 50µ pins, for Cat 5e and 6 UTP cable with rigid conductors.



TF-5160-GR

Bulk 100 u.

8P8C modular connector (RJ-45) with 8 gold-plated 50µ pins, for cat 5e and 6 UTP cable with multi-stranded conductors.



TF-5130-GR

Bulk 100 u.

Shielded modular connector 8P8C (RJ-45) with 8 gold-plated pins 50 µ, for shielded STP/FTP cable Cat 5e and 6 with rigid and multi-stranded conductors.



TF-5140GS-GR

Bulk 100 u.

Protective cap for 8P8C connector (RJ-45) and 5.5 mm Ø cable
Grey colour



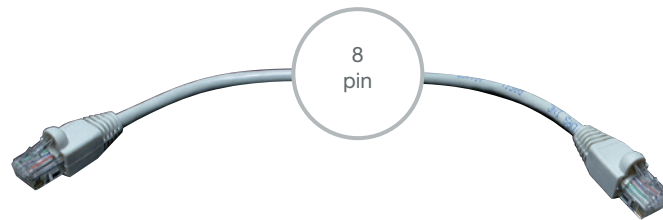
TF-5145GS-GR

Bulk 100 u.

Protective cap for 8P8C connector (RJ-45) and 6.5 mm Ø cable
Grey colour

VOICE AND DATA CAT 6 CABLES

FONESTAR



TF-5201-GS

8 pin. 1 m

UTP Cat 6 connection, 2 x 8P8C (RJ-45) connectors with protector.
1 m length. Grey colour

TF-5201-GS-3

Same features as mod. TF-5201-GS. 3 m length

TF-5201-GS-6

Same features as mod. TF-5201-GS. 6 m length

TF-5201-GS-10

Same features as mod. TF-5201-GS. 10 m length

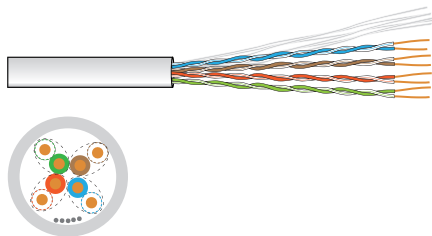
VOICE AND DATA TESTERS



TCAT-8

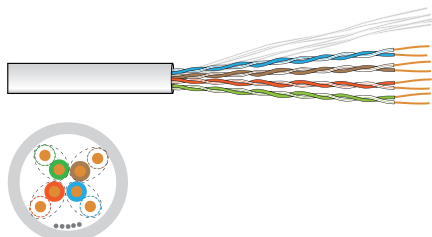
FEATURES	RJ-45, RJ-11 and RJ-12 cable tester Composed of 1 transmitter and 1 receiver Tests continuity and connectors of voice and data and telephone cables (Cat 5e/6) Normal and slow test mode
CONNECTORS	RJ-45, RJ-11 y RJ-12
INDICATOR LIGHTS	LED testing indicators
POWER SUPPLY	1 x 6LR61, 9 V battery
DIMENSIONS	Transmitter: 66 x 30 x 105 mm depth Receiver: 38 x 30 x 105 mm depth
WEIGHT	0.2 kg

VOICE AND DATA CAT 5e CABLE ROLLS



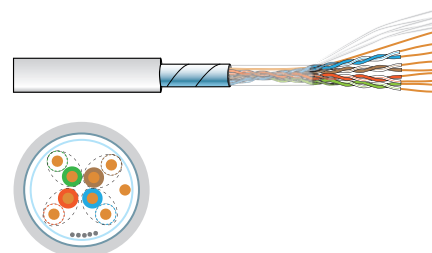
TF-5310-GS [100 m roll]

Cat 5e UTP 100 MHz cable with 8 rigid conductors grouped in 4 braided colour-coded pairs for voice and data
Nylon rip cord
Outer sheath: 5.3 mm Ø, Grey PVC
8 cables:
Conductor sheaths: 0.9 mm Ø green, green/white, orange, orange/white, brown, brown/white, blue, blue/white
Conductor: 1 x CCA thread of 0.5 mm Ø (24 AWG)



TF-5310-GSZH [100 m roll]

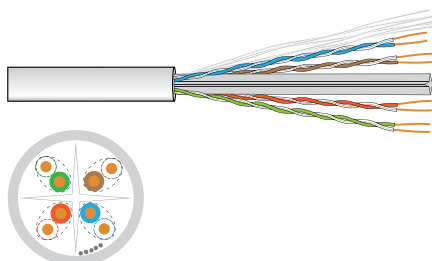
LSZH sheathed cable for installations according to RBT in public areas.
Cat 5e UTP 100 MHz cable with 8 rigid conductors grouped in 4 braided colour-coded pairs for voice and data
Nylon rip cord
Outer sheath: 5.3 mm Ø, Grey LSZH
8 cables:
Conductor sheath: 0.9 mm Ø, PE green, green/white, orange, orange/white, brown, brown/white, blue, blue/white
Conductor: 1 x CCA thread of 0.5 mm Ø (24 AWG)



TF-5315-GS [100 m roll]

Cat 5e FTP 100 MHz shielded cable with 8 rigid conductors grouped in 4 braided pairs colour-coded and drainage for voice and data
Nylon rip cord
Outer sheath: 5.8 mm Ø, Grey PVC
Shielding: mylar aluminium tape
Drain: 1 x CCA thread of 0.5 mm Ø
8 cables:
Conductor sheath: 1 mm Ø green, green/white, orange, orange/white, brown, brown/white, blue, blue/white
Conductor: 1 x CCA thread of 0.5 mm Ø (24 AWG)

VOICE AND DATA CAT 6 CABLE ROLLS



TF-5320-GS [100m roll]

Cat 6 UTP 250 MHz cable with 8 rigid conductors grouped in 4 twisted pairs colour-coded for voice and data
Nylon rip cord
Outer sheath: 6.2 mm Ø, Grey PVC
8 cables:
Conductor sheath: 1 mm Ø, PE green, green/white, orange, orange/white, brown, brown/white, blue, blue/white
Conductor: 1 x CCA thread of 0.56 mm Ø (23 AWG)



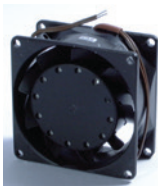
TF-999

2, 4, 6 and 8 pin

Crimp tool for installing RJ-45 8-contact, RJ-12 6-contact and RJ-11 2 and 4 contact modular connectors.
Tool for cutting and stripping flat cables.

ELECTRONIC ACCESSORIES
FANS

Cooling fans for audio, video and computer equipment.



3E-230S-28

FEATURES	Metal axial fan.
POWER	12 W 2,800 r.p.m.
POWER SUPPLY	230 V AC
DIMENSIONS	80 x 80 x 38 mm
WEIGHT	0.4 kg

ELECTRONIC ACCESSORIES
GRILLES



R-3E

FEATURES	Protective metal grid for mod. FONESTAR 3E-230S-28.
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ELECTRONIC ACCESSORIES
SPRAYS

Cleaning and maintenance sprays for electronics, computing, telephony, electricity, etc.

All the products comply with European laws and regulations for aerosols, are CFC-free and ozone layer friendly.
Products manufactured in the EU.



R-11

FEATURES	Contact cleaner. Cleans and lubricates general electronic and mechanic contacts: potentiometers, switches, keypads and in general all components that require cleaning and lubrication. Protects against rust and corrosion. Flammable.
CONTENTS	200 ml
WEIGHT	0.2 kg

G-22

FEATURES	Dry cleaner. Cleans the dirt caused by wear: old grease, dust, rust, damp, etc. on electronic equipment contacts, telephone installations, remote controls, tuners, computers, fax machines, relays, general micro-contacts, etc. Leaves no residue. Evaporates completely. Flammable.
CONTENTS	200 ml
WEIGHT	0.2 kg

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FONESTAR

ELECTRONICS



ELECTRONICS

Hi-Fi AMPLIFIERS

Hi-Fi stereo amplifiers with, Bluetooth, USB/MP3 and FM radio player.



**Committed
to you since 1947**



AS-1515

Hi-Fi stereo amplifier.
Bluetooth receiver.
USB/MP3 player.
FM radio.
Microphone inputs with echo and tone.
Aluminium panel.
Remote control of the player.

FEATURES

POWER	15 + 15 W RMS at 4 Ω
RESPONSE	20-20,000 Hz
S/N RATIO	>70 dB
DISTORTION	Harmonic: < 0.5% at 1 kHz
INPUTS	1 aux, 2 x RCA, 17,000 Ω 220 mV RMS 2 unbalanced micros, 6.3 mm jack , 900 Ω 9 mV RMS
OUTPUTS	Loudspeakers Main L/R, 4-16 Ω screw terminals and banana plugs
PROTECTIONS	Temperature, short circuit and overload
POWER SUPPLY	230 V AC, 90 W
DIMENSIONS	250 x 90 x 276 mm depth
WEIGHT	2.65 kg
ACCESSORIES	FM antenna cable Batteries for remote control





AS-3030

FEATURES

Hi-Fi stereo amplifier.
 Bluetooth receiver.
 USB/MP3 player.
 FM radio.
 Microphone inputs with echo and tone.
 Aluminium panel.
 Remote control of the player.



AS-6060

Hi-Fi stereo amplifier.
 Bluetooth receiver.
 USB/MP3 player.
 FM radio.
 Microphone inputs with echo.
 Digital audio input for TV connection.
 Aluminium panel.
 Remote control of the player.

POWER	30 + 30 W RMS at 4 Ω	60 + 60 W RMS at 4 Ω
RESPONSE	20-20,000 Hz	20-20,000 Hz
S/N RATIO	>70 dB	>85 dB
DISTORTION	Harmonic: < 0.5% at 1 kHz	Harmonic: < 0.5% at 1 kHz
INPUTS	3 stereo inputs: DVD/LINE/CD, 2 x RCA 200 mV RMS 1 stereo aux, 3.5 mm jack, 200 mV RMS in front panel 2 balanced micros, 6.3 mm jack , 900 Ω 6 mV RMS	3 stereo aux.: DVD/AUX/CD, 2 x RCA, 17.000 Ω 300 mV RMS 1 stereo aux, 3.5 mm jack, 15.000 Ω 300 mV RMS in front panel 1 digital audio, TOSLINK and RCA 2 unbalanced micros, 6.3 mm jack , 900 Ω 9 mV RMS
OUTPUTS	Loudspeakers Main L/R, 4-16 Ω screw terminals and banana plugs	Loudspeakers: Main L/R, 4-16 Ω screw terminals and banana plugs
PROTECTIONS	Temperature, short circuit and overload	Temperature, short circuit and overload
POWER SUPPLY	230 V AC, 230 W	230 V AC, 350 W
DIMENSIONS	330 x 92 x 276 mm depth	330 x 92 x 276 mm depth
WEIGHT	3.3 kg	4.2 kg
ACCESSORIES	FM antenna cable Batteries for remote control	FM antenna cable Batteries for remote control

ELECTRONICS

Hi-Fi AMPLIFIERS

Bluetooth/USB/FM Hi-Fi stereo amplifier.



AS-170PLUS

FEATURES	<p>Hi-Fi stereo amplifier. Plays music from smartphones, tablets and other Bluetooth devices. Bluetooth receiver 4.0. USB/MP3 player. FM radio with 40 presets. Bass and treble control Standby with power saving. Remote control.</p>
POWER	80 + 80 W RMS at 4 Ω
INPUTS	<p>3 stereo audio: AUX, 2 x RCA 1 stereo audio: PHONO RIAA, 2 x RCA 1 stereo audio: AMP IN, 2 x RCA 1 digital audio, toslink and RCA 1 mic, 6.3 mm jack</p>
OUTPUTS	<p>Loudspeakers 2 selectable A/B stereo groups, A or B 4-16 Ω, A and B 8-16 Ω, screw or banana terminals. 1 stereo aux, 6.3 mm jack 1 line, 2 x RCA 1 pre out, 2 x RCA</p>
RESPONSE	20-20,000 Hz ±3 dB
S/N RATIO	>85 dB
DISTORTION	Harmonic: < 0.1% (1 kHz, 1 W)
POWER SUPPLY	230-115 V AC, 300 W max
COLOUR	Black
DIMENSIONS	436 x 100 x 320 mm depth
WEIGHT	6.8 kg
ACCESSORIES	<p>FM antenna cable Batteries for remote control</p>

ELECTRONICS PLAYERS

FONESTAR

Feature-rich player and audio sources. Plays music from Wi-Fi, smartphones, tablets and other devices. App for audio streaming and playback control. Upgrade your amplifier with the latest online music streaming services, all in one player. High sound quality with auxiliary and toslink output.



FONCAST

INPUTS	1 aux, 3.5 mm stereo jack
OUTPUTS	1 digital audio, toslink 1 aux, 3.5 mm stereo jack
RESPONSE	20-20,000 Hz
POWER SUPPLY	5 V DC, 1 A with adapter included
COLOUR	Black
DIMENSIONS	76 x 19 x 76 mm depth
WEIGHT	0.1 kg
ACCESSORIES	
WEIGHT	435 x 110 x 340 mm depth
ACCESSORIES	FM antenna cable Batteries for remote control



CD/USB/MP3 player.



CD-150PLUS

FEATURES	CD/USB/MP3 player. CD player mechanism with front slot-in loading system. Plays CD audio, MP3, CD-R and CD-RW. 10 second anti-vibration memory. USB port. White VFD screen. ID3 tag information in MP3 files. Remote control.
RESPONSE	20-20,000 Hz
OUTPUTS	1 aux, 2 x RCA 1 coaxial digital audio, RCA 1 optical digital audio, toslink
POWER SUPPLY	100-240 V AC, 25 W
DIMENSIONS	430 x 74 x 250 mm depth
WEIGHT	3.3 kg
ACCESSORIES	2 x RCA, audio cable Batteries for remote control

ELECTRONICS

TURNTABLES

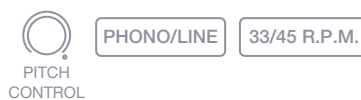
Hi-Fi belt drive turntables



VINYL-25AMP

FEATURES

Hi-Fi belt drive turntables.
 Built-in speakers.
 Direct USB recording function.
 USB/MP3 player.
 Precision DC servo motor with fast start and stop.
 Auto-stop function.
 Straight arm with slow lifting and lowering.
 Ceramic needle compatible with FONESTAR 970-DST-W and phonocapsule 2511-DST.
 3 speeds: 33/45/78 r.p.m.
 Line-level output.
 Headphone output.
 Aux input.
 MDF wood construction.
 PVC and fabric finish.



VINYL-13

Hi-Fi belt drive turntables.
 Precision DC servo motor with fast start and stop.
 Phono/Line output selector.
 Auto-standby function after 20 minutes.
 Straight arm with slow lifting and lowering. Adjustable counterweight.
 Audio Technica AT-3600 magnetic stylus compatible with FONESTAR 786-DST-W and phonocapsule 4034-DST-W.
 2 speeds: 33 and 45 r.p.m.
 Pitch adjustment.
 Aluminium plate.
 MDF wood construction.
 PVC finish.

LOUDSPEAKERS	2 x 2 ¾" woofer, 3 + 3 W RMS	
RECORDER	Supports memories up to 32 GB Recording quality 256 Kbps	
POWER SUPPLY	5 V DC, 2 A with adapter included	12 V DC, 200 mA with adapter included
COLOUR	Black	Black
DIMENSIONS	405 x 145 x 330 mm depth	432 x 140 x 349 mm depth
WEIGHT	4.3 kg	4.2 kg
ACCESSORIES	2 x RCA audio cable, 1.5 m, Centring device for 7" discs Protective mat for plate Transparent lid	2 x RCA audio cable, 1.5 m, Centring device for 7" discs Protective mat for plate Transparent lid

Carbon fibre brush for cleaning vinyl records and screens.



MFP-32

FEATURES

Carbon fibre brush and velvet for cleaning vinyl records.
 Carbon fibres to eliminate static charges.
 Velvet for wet and dry use. Removes dust, even small particles.
 Closure system for fibre protection.

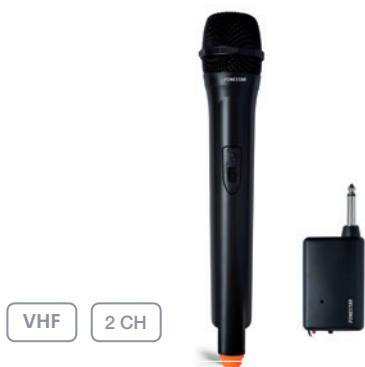
DIMENSIONS 44 x 113 x 22 mm depth

ELECTRONICS

WIRELESS MICROPHONE

FONESTAR

VHF hand-held wireless microphone.
Direct connection to amplifier. Easy installation and use.



VHF 2 CH

IK-163

FEATURES Wireless hand-held microphone.
VHF 191.9 to 194.5 MHz.
Receiver with 6.3 mm mono jack connector for direct connection to the amplifier.
Easy installation and use.

RECEIVER/ MICROPHONE	Fixed frequency channel 2 available channels
OUTPUTS	Direct connection to the amplifier, 6.3 mm mono jack 10 mV
POWER SUPPLY	Receiver: 1 x LR6-AA battery, included Transmitter: 2 x LR6-AA battery, included
DIMENSIONS	Receiver: 45 x 19 x 110 mm depth
WEIGHT	0.1 kg

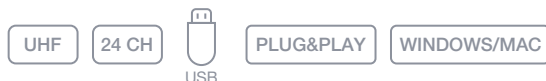


UHF 16 CH

IK-166

FEATURES Wireless hand-held microphone.
UHF 679-694 MHz.
Receiver with 6.3 mm mono jack connector for direct connection to the amplifier.
Easy installation and use.

RECEIVER/ MICROPHONE	16 available channels
OUTPUTS	Direct connection to the amplifier, 6.3 mm mono jack 0.9 V
POWER SUPPLY	Transmitter: rechargeable Li-ion battery, 850 mAh 3.7V Battery life: up to 6 h Charging time: 3-4 h Transmitter: rechargeable Li-ion battery, 600 mAh 3.7V Battery life: up to 6 h Charging time: 3-4 h
DIMENSIONS	Receiver: 27 x 17 x 100 mm depth
WEIGHT	0.2 kg



WI-MIC

FEATURES Head and lavalier microphone with electret condenser capsule for excellent sound clarity.
USB plug and play receiver, Windows/Mac compatible without the need for drivers.
Additional audio output for monitoring or amplification.
UHF transmitter 641-699 MHz with clip holder.
24 available channels

POWER SUPPLY	Transmitter: 2 x LR6-AA batteries Receiver: via USB, 5 V DC, 120 mA
DIMENSIONS	USB receiver: 26 x 76 x 12 mm depth Belt-pack transmitter: 65 x 122 x 25 mm depth
WEIGHT	0.1 kg
ACCESSORIES	Windshield foam Batteries included



ELECTRONICS

SMARTPHONE MINI HEADPHONES

Wireless in ear headphones with microphone. Silicone pads.
Call control and play/pause music on smartphones.



FA-183MB

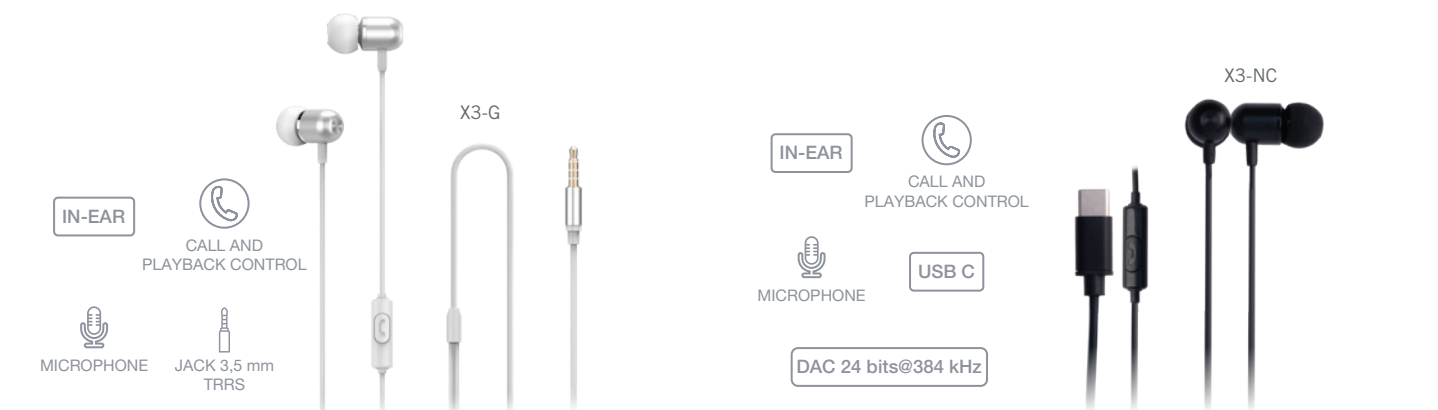
RESPONSE	20-20,000 Hz
IMPEDANCE	32 Ω
CABLE	1.2 m antiknot flat
CONNECTORS	3.5 mm gold-plated 4-pin jack
COLOUR	White



ELECTRONICS

SMARTPHONE MINI HEADPHONES

Wireless in ear headphones with microphone. Silicone pads.
Call control and play/pause music on smartphones.



X3-N X3-G

FEATURES

Wireless in ear headphones with microphone.
Call control and play/pause music on smartphones.
Aluminium built, light and resistant.
Anti-knot cable for added convenience.
Stylish and attractive design.
Excellent sound quality.

X3-NC

Wireless in ear headphones with microphone.
24-bit@384 kHz DAC chipset for high-resolution sound.
Call control and play/pause music on smartphones.
Aluminium built, light and resistant.
Anti-knot cable for added convenience.
Stylish and attractive design.
Excellent sound quality.

X5-B

Wireless in ear headphones with microphone.
Call control and play/pause music on smartphones.
Aluminium built, light and resistant.
Anti-knot cable for added convenience.
Stylish and attractive design.
Excellent sound quality.

RESPONSE	20-20,000 Hz	20-20,000 Hz	20-20,000 Hz
IMPEDANCE	16 Ω	16 Ω	32 Ω
SENSITIVITY	88 dB (dB/mW) ±3 dB	88 dB (dB/mW) ±3 dB	102 dB (dB/mW) ±3 dB
LOUDSPEAKERS	10 mm	10 mm	14 mm
CABLE	1.2 m antiknot	1.2 m antiknot	1.2 m antiknot
CONNECTORS	3.5 mm 4-pin jack	Type C active	3.5 mm 4-pin jack
COLOUR	Black Grey	Black	White
ACCESSORIES	3 pairs of silicone ear caps in different sizes	3 pairs of silicone ear caps in different sizes	-



ELECTRONICS

SMARTPHONE MINI HEADPHONES

General purpose stereo mini headphones with volume control.



FA-310

RESPONSE	20-20,000 Hz
IMPEDANCE	32 Ω
SENSITIVITY	110 dB at 1 kHz ±3 dB
LOUDSPEAKERS	15 mm mylar with neodymium magnet
CABLE	1.1 m
CONNECTORS	3.5 mm stereo 90° jack
CONTROLS	Volume integrated into the cable



FA-261

FEATURES	“In ear mono Ergonomic and discreet design provides a firm and comfortable grip. Greatt sound quality.”
RESPONSE	20-20,000 Hz
IMPEDANCE	16 Ω
SENSITIVITY	110 dB at 1 kHz ±3 dB
LOUDSPEAKERS	9 mm mylar with neodymium magnet
CABLE	1.2 m
CONNECTORS	Mono 3.5 mm jack
COLOUR	White
ACCESSORIES	3 pairs of silicone ear caps in different sizes

Mini mono headphones with stand for radio and general purposes.



FA-225

RESPONSE	40-18,000 Hz
IMPEDANCE	4-32 Ω
LOUDSPEAKERS	20 mm with cobalt samarium magnet
CABLE	1.5 m
CONNECTORS	2.5 mm mono 90° jack

FA-235

RESPONSE	40-18,000 Hz
IMPEDANCE	4-32 Ω
LOUDSPEAKERS	20 mm with cobalt samarium magnet
CABLE	1.5 m
CONNECTORS	3.5 mm mono 90° jack

ELECTRONICS

WIRELESS HEADPHONES

Wireless UHF radio frequency Hi-Fi stereo headphone systems. 3 selectable, simultaneous transmission channels.



FA-8060R

Wireless UHF radio frequency headphones. 3 selectable transmission channels with different programs. For expansion or Model FA-8050 FA-8060 replacement.



Wireless UHF radio frequency Hi-Fi stereo headphone systems.
 3 selectable, simultaneous transmission channels.



UHF 3 CH

FA-8060

FEATURES	<p>Wireless UHF radio frequency Hi-Fi stereo headphone systems. Transmitter with stereo audio input and 3 selectable transmission channels. Allows total mobility and listening comfort even through walls and ceilings. Maximum transmission distance 100 m under favourable conditions. Up to 3 transmitters can be used simultaneously with 3 different programs selectable from the headset. Multiple receiver headphones can be used with the same transmitter.</p>
TRANSMITTER	<p>Transmission: UHF radio frequency Modulation: FM stereo Power: < 10 mW Input: audio, 3.5 mm stereo jack Channel selector (3 selectable channels): 863.5, 864 and 864.5 MHz Indicator lights: power and audio signal level indicators Power supply: 12 V DC, 150 mA with adapter included</p>
RECEIVER HEADPHONE	<p>Response: 30-20,000 Hz Input: 3.5 mm stereo jack for use as a wired headphone Switch: on/off Controls: volume and 3-channel auto-tuning: 863.5, 864 and 864.5 MHz Indicator lights: power on and signal reception Power supply: 2 batteries 1.5 V type LR03-AAA</p>
WEIGHT	0.4 kg (without adapter)
ACCESSORIES	1 x 3.5 mm stereo jack to 3.5 mm stereo jack and 2 x RCA cable

ELECTRONICS

HEADPHONES

In-ear TV headphones.

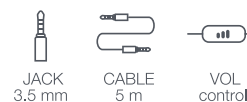
X3-TV

FEATURES	TV headphones. Aluminium built, light and resistant. Long cable length and silicone pads of different sizes. Stylish and attractive design. Excellent sound quality.
RESPONSE	20-20,000 Hz
IMPEDANCE	16 Ω
SENSITIVITY	88 dB (dB/mW) \pm 3 dB
LOUDSPEAKERS	10 mm
CABLE	5 m antiknot
CONNECTORS	3.5 mm jack
COLOUR	Black
ACCESSORIES	3 pairs of silicone ear caps in different sizes Transport case



TV-PHONES NI

FEATURES	TV headphones. Ergonomic design, ultralight weight and foldable. High sound quality. Great motion range. Removable 5 m cable with textile sheathing. Volume control integrated into the cable. Single-sided cable outlet (SINGLE-SIDED). Perforated synthetic leather pads improve breathability for long hours of use.
RESPONSE	20-20,000 Hz
IMPEDANCE	32 Ω
POWER	100 mW max
SENSITIVITY	110 dB (mW) \pm 3 dB
LOUDSPEAKERS	40 mm
CONTROLS	Volume integrated into the cable
CABLE	5 m, cable outlet on one side Textile sheathing
CONNECTORS	Cable: 3.5 mm stereo jack 3.5 mm gold-plated male to male Left earphone: 3.5 mm stereo jack female
WEIGHT	0.2 kg
ACCESSORIES	Transport case



Pillow speaker.



3360

IMPEDANCE	8 Ω
CABLE	1.8 m
CONNECTORS	Mono 3.5 mm jack

ELECTRONICS HEADPHONES

Stereo headphones

FONESTAR



OVER EAR

CALL AND
PLAYBACK CONTROL

MICROPHONE

Jack 3,5 mm
TRRS

X8-B

X8-N

FEATURES	Wireless headphones with microphone. Call control and play/pause music on smartphones. Advanced and ergonomic design. Listening comfort. Excellent sound quality.	
RESPONSE	20-20,000 Hz	
LOUDSPEAKERS	40 mm	
POWER	40 mW max	
SENSITIVITY	111 dB (mW) ± 3 dB	
IMPEDANCE	32 Ω	
MICROPHONE	Capsule: omnidirectional electret condenser Response: 100-8,000 Hz Sensitivity: -38 dB (V/Pa) ± 3 dB Impedance: 2,200 Ω	
CABLE	1.2 m, antiknot, cable exit on one side Braided coating Call control and play/pause music on smartphones.	
CONNECTORS	3.5 mm 4-pin jack connector for headphones and microphone	
COLOUR	White	Black
WEIGHT	0.2 kg	

FA-592M

FA-592



FA-592

FA-592M

FEATURES	Stereo headphones	Stereo headphones
RESPONSE	20-20,000 Hz	20-20,000 Hz
IMPEDANCE	32 Ω	32 Ω
POWER	30 mW max	30 mW max
SENSITIVITY	110 dB (mW) ± 3 dB	110 dB (mW) ± 3 dB
LOUDSPEAKERS	30 mm mylar with neodymium magnet	30 mm mylar with neodymium magnet
CABLE	1.2 m, ultra-thin and extra-flexible, cable exit on one side	1.2 m, ultra-thin and extra-flexible, cable exit on one side
CONNECTOR	Mono 3.5 mm jack	Mono 3.5 mm jack
ACCESSORIES	-	6.3 mm stereo jack adapter

ELECTRONICS

PC HEADPHONES

PC headphones with microphone



PC/Mac

HOME-35

HEADPHONES	PC stereo headset with folding microphone for teleworking, multimedia and general use. Response: 20-20,000 Hz Sensitivity: 111 dB \pm 3 dB Impedance: 32 Ω Power: 40 mW max Loudspeakers: 40 mm with ferrite magnet Pad: high quality foam Control: volume integrated into the cable
MICROPHONE	Capsule: omnidirectional electret condenser Response: 100-8,000 Hz Sensitivity: -38 dB (V/Pa) \pm 3 dB Impedance: 2,200 Ω Folding microphone holder
CABLE	1.8 m, extra-flexible, cable exit on one side Braided coating
CONNECTORS	3.5 mm jack for headphones and microphone
WEIGHT	0.1 kg
ACCESSORIES	Audio cable 3.5 mm jack female to 2 x 3.5 mm jack male, 0.25 m



PC/Mac

WIN

FEATURES	Gaming headphones with foldable microphone. Great comfort for long-term use. Modern design Cable-integrated controls. Compatible with PC/MAC, PS4, Xbox One, Nintendo Switch, smartphones, tablets and Xbox 360 with adapter.
HEADPHONES	Stereo headphones Response: 20-20,000 Hz Sensitivity: 103 dB \pm 3 dB Impedance: 32 Ω Power: 20 mW max Loudspeakers: 50 mm Pad: synthetic leather
MICROPHONE	Capsule: omnidirectional electret condenser Response: 100-10,000 Hz Sensitivity: -38 dB (V/Pa) \pm 3 dB Noise cancellation
CONTROLS	Volume and microphone mute control integrated into the cable.
CABLE	2 m
CONNECTORS	3.5 mm 4-pin jack for headphones and microphone
DIMENSIONS	192 x 210 x 96 mm depth
WEIGHT	0.4 kg
ACCESSORIES	Audio cable 3.5 mm jack female to 2 x 3.5 mm jack male, 0.25 m



PC/Mac

WIN-U

FEATURES	Gaming headset with foldable microphone and LED backlight. Great comfort for long-term use. Modern design Cable-integrated controls. Compatible with PC/MAC, PS4, Xbox One and Nintendo Switch.
HEADPHONES	Stereo headphones Response: 20-20,000 Hz Sensitivity: 103 dB \pm 3 dB Impedance: 32 Ω Power: 20 mW max Loudspeakers: 50 mm Pad: synthetic leather
MICROPHONE	Capsule: omnidirectional electret condenser Response: 100-10,000 Hz Sensitivity: -38 dB (V/Pa) \pm 3 dB Noise cancellation
CONTROLS	Control on the cable with microphone and headphone volume, microphone mute and LED switch.
CABLE	2 m
CONNECTORS	USB
DIMENSIONS	192 x 210 x 96 mm depth
WEIGHT	0.4 kg

ELECTRONICS

HEADPHONE ACCESSORIES

Headphone amplifier with volume control.

FDA-1A

FEATURES	Headphone amplifier with volume control.
INPUTS	1 stereo headphone/line input, 3.5 mm and 2 x RCA jacks
OUTPUTS	1 stereo headphone output, 3.5 mm jack and 6.3 mm jack, 16 - 32 Ohm, 2 V max.
CONTROLS	On/off Master volume
INDICATOR LIGHTS	LED power on indicator
S/N RATIO	85 dB
POWER SUPPLY	5 V DC, 500 mA with adapter included or through Micro USB
DIMENSIONS	64 x 30 x 97 mm depth



FDA-4A

FEATURES	Headphone amplifier/splitter. 1 input and 4 outputs with independent volume control.
INPUT	1 stereo headphone/line input, 3.5 mm and jacks
OUTPUTS	4 stereo headphone outputs, 6.3 mm jack
CONTROLS	Independent volume control of each output
INDICATOR LIGHTS	LED power on indicator
POWER SUPPLY	12 V DC, 150 mA with adapter included
DIMENSIONS	104 x 47 x 57 mm depth
WEIGHT	0.2 kg



Pairs of headset and mini headphones pads .



ST-6

ST-7

ST-8

ST-9

	FEATURES	DIAMETER	THICK
ST-6	Pair of replacement ear pads.	Exterior: 52 mm Interior: 28 mm	12 mm
ST-7	Pair of replacement ear pads.	Exterior: 21 mm Interior: 6 mm	9 mm
ST-8	Pair of replacement ear pads.	Exterior: 65 mm Interior: 40 mm	12 mm
ST-9	Pair of replacement ear pads.	Exterior: 80 mm Inside: 60 mm	14 mm

	FEATURES	DIAMETER
SE-12	Pair of replacement ear pads.	Exterior: 19 mm Interior: 6 mm



SE-12

SE-15

ELECTRONICS

Hi-Fi SPEAKERS

Pairs of Hi-Fi speakers.



⚡ **Hi-Fi** **BASS-REFLEX**
60 + 60 W RMS

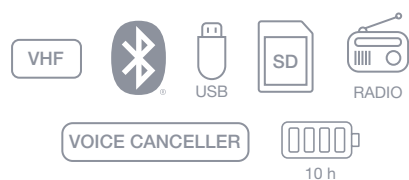
BLOCK-5

FEATURES	Pair of compact Hi-Fi speakers. Excellent sound quality. Construction in MDF wood coated in black PVC. Bass-reflex box.
POWER	90 + 90 W max., 60+ 60 W RMS
LOUDSPEAKERS	1 x 5" woofer highly resistant with ferrite magnet 1 x 1" silk dome tweeter with neodymium magnet
RESPONSE	65-20,000 Hz ±3 dB
IMPEDANCE	8 Ω
SENSITIVITY	85 dB ±2 dB at 1 W/1 m
CONNECTORS	Screw terminals or gold-plated bananas
CROSSOVER	2 ways Crossover frequency at 3.000 Hz
COLOUR	Black
DIMENSIONS	183 x 296 x 198 mm depth
WEIGHT	2 x 4 kg
ACCESSORIES	Rubber feet

ELECTRONICS

BLUETOOTH SPEAKERS AND MORE

Portable karaoke speaker with bluetooth and USB/SD/MP3 player and wireless handheld microphone. Karaoke function, independent volume control of music and microphones. It is compatible with karaoke APPs. LED lighting effects ring, dynamic and striking effects. Easy to carry with convenient handle.



BOX-35LED

FEATURES	Portable speaker with Bluetooth and USB/SD/MP3/FM player and wireless microphone. Karaoke function, independent music and microphone volume control. Plays music from smartphones, tablets and other Bluetooth devices. USB/SD/MP3/FM player and microphone audio recorder. Selectable echo function. LED effects. Aux input to listen to music from external devices. Input for microphone with cable. Remote control.
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POWER	35 W RMS
LOUDSPEAKERS	1 x 6.5" woofer
COLOUR	Black
POWER SUPPLY	Rechargeable lithium battery 4,400 mAh 7.4 V 9 V DC, 1.2 A with adapter included Wireless microphone: 2 x LR6-AA batteries Remote control: 2 x LR03-AAA batteries
DIMENSIONS	250 x 355 x 155 mm depth
WEIGHT	2.6 kg
ACCESSORIES	Batteries included



MSHT-17

FEATURES	Wireless headworn microphone with unidirectional electret condenser capsule and VHF bodypack transmitter for model BOX-35LED. VHF 175.5 MHz.
POWER SUPPLY	2 x LR6-AA batteries
DIMENSIONS	66 x 103 x 24 mm depth
WEIGHT	0.12 kg
ACCESSORIES	Windshield foam



ELECTRONICS

BLUETOOTH SPEAKERS AND MORE

Portable karaoke speaker with bluetooth and USB/SD/MP3 player and wireless handheld microphone.

Karaoke function, independent volume control of music and microphones.

It is compatible with karaoke APPs. LED lighting effects ring, dynamic and striking effects.

Easy to carry with convenient handle.



PARTYBOX

FEATURES

Portable speaker with Bluetooth® player, USB/microSD/MP3 and VHF 188.50 MHz wireless microphone.

Karaoke function, independent music and microphone volume control.

Plays music from smartphones, tablets and other Bluetooth devices.

USB/microSD/MP3 player and microphone audio recorder.

Digital FM radio tuner with 35 pre-set stations.

Selectable echo function.

7 LED effects.

Aux input to listen to music from external devices.

Input for microphone with cable.

BASS REFLEX reinforcement.

6 automatic equalizations.

Remote control.

POWER	20 W RMS
LOUDSPEAKERS	1 x 6.5" woofer
COLOUR	Black
POWER SUPPLY	Rechargeable Li-ion battery, 1,800 mAh 7.4 V 9 V DC, 1.5 A with adapter included Battery life: Up to 6 h* Charging time: 3 * At 50% of the volume. Depending on the type of music and volume, the battery life may be reduced. 12 V DC, 1.5 A Wireless microphone: 2 x LR6-AA batteries
DIMENSIONS	285 x 285 x 165 mm depth
WEIGHT	2.8 kg
ACCESSORIES	3.5 mm stereo jack to 3.5 mm stereo jack audio cable Microphone stand Transport band Batteries included

ELECTRONICS

PORTABLE SPEAKERS

Portable amplifier with UHF wireless microphone.
 BT/USB/MicroSD/MP3 player and FM digital tuner.
 Long-life lithium battery. Outdoor activities, background music.

AMPLY



AMPLY-T



AMPLY

FEATURES

Portable speaker.
 Wireless hand-held microphone
 UHF 525.85 MHz.
 Bluetooth® receiver, USB/
 MicroSD/MP3 player and FM radio
 digital tuner with 40 automatic
 presets.
 Lithium battery.
 Echo function and tone control.
 Remote control.
 BASS REFLEX reinforcement.
 Hole in the base for 35 mm tube.

AMPLY-T

Portable speaker.
 Wireless hand-held microphone
 UHF 525.85 MHz.
 Bluetooth® receiver, USB/
 MicroSD/MP3 player and FM radio
 digital tuner with 40 automatic
 presets.
 Lithium battery.
 Echo function and tone control.
 Trolley transport cart.
 Remote control.
 BASS REFLEX reinforcement.
 Hole in the base for 35 mm tube.

POWER	100 W	100 W
LOUDSPEAKERS	1 x 8" woofer 1 x 2" tweeter	1 x 8" woofer 1 x 2" tweeter
INPUTS	1 unbalanced mic, 6.3 mm jack 1 stereo aux, 3.5 mm jack	1 unbalanced mic, 6.3 mm jack 1 stereo aux, 3.5 mm jack 1 aux, 2 x RCA
POWER SUPPLY	9 V DC with adapter included Lithium battery 2,000 mAh, 7.4 V Battery life: Up to 7 h* Charging time: 5 * At 50% of the volume. Depending on the type of music and volume, the battery life may be reduced.	9 V DC with adapter included Lithium battery 2,000 mAh, 7.4 V Battery life: Up to 7 h* Charging time: 5 * At 50% of the volume. Depending on the type of music and volume, the battery life may be reduced.
DIMENSIONS	255 x 390 x 175 mm depth	255 x 390 x 175 mm depth
WEIGHT	2.9 kg	2.9 kg



AMPLY-BP

FEATURES

Wireless head-worn microphone with
 unidirectional electret condenser capsule and
 UHF belt-pack transmitter for AMPLY and
 AMPLY-T models.
 525.85 MHz

POWER SUPPLY	2 x LR6-AA batteries
DIMENSIONS	66 x 103 x 24 mm depth
WEIGHT	0.1 kg
ACCESSORIES	Windshield foam

ELECTRONICS

PORTABLE SPEAKERS

Portable amplifiers with wireless microphone, bluetooth and USB/SD/MP3 player.
High power and long battery life.
Ideal for outdoor activities, background music.



MALIBU-108L

MALIBU-110L

FEATURES	Portable speaker. 1 UHF 684 Mhz hand-held wireless microphone. USB/SD/MP3 player. Lithium battery. Echo function and tone control. Remote control. Hole in the base for 35 mm tube.	Portable speaker. 1 UHF 684 Mhz hand-held wireless microphone. USB/SD/MP3 player. Lithium battery. Echo function and tone control. Trolley transport cart. Remote control. Hole in the base for 35 mm tube.
POWER	100 W max 20 W RMS	100 W max 20 W RMS
LOUDSPEAKERS	1 x 8" woofer 1 x 1" tweeter	1 x 10" woofer 1 x 1" tweeter
INPUTS	1 micro, XLR 1 stereo auxiliary, 2 x RCA	1 micro, XLR 1 stereo auxiliary, 2 x RCA
POWER SUPPLY	110-230 V AC Lithium battery 11 V, 2 Ah Autonomy with rechargeable battery: 5 hours Battery full-load time: 5 hours approx. Operation during recharging	110-230 V AC Lithium battery 11 V, 2 Ah Autonomy with rechargeable battery: 5 hours Battery full-load time: 5 hours approx. Operation during recharging
DIMENSIONS	250 x 385 x 200 mm depth	310 x 490 x 280 mm depth
WEIGHT	5 kg	6.7 kg
OPTIONAL	FAL-M8: carrying bag	FAL-M10: carrying bag



MALIBU-212P

FEATURES	<p>Portable speaker. 2 VHF wireless microphones, 1 hand-held and 1 head-worn (191.900 MHz and 174.300 MHz respectively). USB/SD/MP3 player. Rechargeable Li-ion battery. Echo function and tone control. Trolley transport cart. Remote control. Hole in the base for 35 mm tube.</p>
POWER	<p>200 W max 40 W RMS</p>
LOUDSPEAKERS	<p>1 x 12" woofer 1 x 1" tweeter</p>
INPUTS	<p>2 micro, XLR and 6.3 mm jack 1 stereo auxiliary, 2 x RCA</p>
OUTPUTS	<p>1 stereo auxiliary, 2 x RCA</p>
POWER SUPPLY	<p>230/115 V AC and 12 V DC Battery Li-ion 12.8 V, 8000 mAh Autonomy with rechargeable battery: 5 hours (volume at 50%) Battery full-load time: 6.5 hours approx. Operation during recharging</p>
DIMENSIONS	<p>390 x 580 x 300 mm depth</p>
WEIGHT	<p>11.75 kg</p>
OPTIONAL	<p>FAL-M12: carrying bag</p>



MALIBU-215P

FEATURES	<p>Portable speaker. 2 VHF wireless microphones, 1 hand-held and 1 head (191.900 MHz and 174.300 MHz respectively). USB/SD/MP3 player. Rechargeable Li-ion battery. Echo function and tone control. Trolley transport cart. Remote control. Hole in the base for 35 mm tube.</p>
POWER	<p>200 W max 40 W RMS</p>
LOUDSPEAKERS	<p>1 x 15" woofer 1 x 1" tweeter</p>
INPUTS	<p>2 micro, XLR and 6.3 mm jack 1 stereo auxiliary, 2 x RCA</p>
OUTPUTS	<p>1 stereo auxiliary, 2 x RCA</p>
POWER SUPPLY	<p>230/115 V AC and 12 V DC Battery Li-ion 12.8 V, 8000 mAh Autonomy with rechargeable battery: 5 hours (volume at 50%) Battery full-load time: 6.5 hours approx. Operation during recharging</p>
DIMENSIONS	<p>450 x 685 x 385 mm depth</p>
WEIGHT	<p>15.05 kg</p>
OPTIONAL	<p>FAL-M15: carrying bag</p>

FAL-M8



FAL-M10



FAL-M12
FAL-M15



FAL-M8

Canvas carrying bag for MALIBU-108L speaker

FAL-M10

Canvas carrying bag for MALIBU-110L speaker

FAL-M12

Canvas carrying bag for MALIBU-212P speaker

FAL-M15

Canvas carrying bag for MALIBU-215P speaker

ELECTRONICS

HIGH POWER PORTABLE SPEAKERS

Portable speaker. Great power and sound quality. High efficiency class D amplifier.



UHF Pb 4-6 h

ASH-1200

FEATURES	Portable speaker. Great power and sound quality. High efficiency class D amplifier. 1 x UHF hand-held wireless microphone. Output for passive baffle. Microphone input with echo effect and tone control to be used as Karaoke. Master output tone controls. Trolley transport cart. Compartment to store two microphones (hand-held or belt-pack). Hole in the base for 35 mm tube.
POWER	150 W max., 90 W RMS
LOUDSPEAKERS	1 x 12" woofer 1 x 1" compression driver
RESPONSE	80-18,000 Hz
SENSITIVITY	93 dB at 1 W/1 m
INPUTS	1 balanced mic., combo (XLR and 6.3 mm jack) 1 stereo auxiliary, 2 x RCA 1 balanced line, XLR
OUTPUTS	1 balanced line, XLR 1 amplified for passive baffle, 6.3 mm jack, 4 Ω
PRIORITY	Microphone input and wireless microphones per signal level, selectable
POWER SUPPLY	110-240 V AC, 150 W Battery Pb 2 x 12 V, 5.5 Ah Autonomy with rechargeable battery: 4-6 h* Battery full-load time: 5 hours approx. Operation during recharging *Battery life at 50% of the volume. Depending on the type of music and volume, the battery life may be reduced.
DIMENSIONS	360 x 560 x 360 mm depth
WEIGHT	14.8 kg
ACCESSORIES	Transport case
OPTIONAL	CDM-1200: CD/USB/SD/MP3 player MSHTM-1200M: Hand-held microphone MSHTM-1200P: Belt-pack microphone MSHRM-1200: UHF microphone receiver module MSHTM-1200L: UHF master output transmitter module MSHRM-1200L: UHF master output receiver module



UHF 16 CH

MSHTM-1200M

FEATURES Hand-held UHF wireless microphone with electret condenser capsule for ASH-1200 extension. IR channel sync. UHF 655-679 MHz 16 channels.

POWER SUPPLY	2 x LR6-AA batteries
DIMENSIONS	245 x 51 Ø mm
WEIGHT	0.4 kg
ACCESSORIES	Batteries



UHF 16 CH

MSHTM-1200P

UHF wireless belt-pack microphone with electret condenser capsule for ASH-1200 extension. IR channel sync. UHF 655-679 MHz 16 channels. Gain settings.



UHF 16 CH

MSHRM-1200

FEATURES ASH-1200 UHF microphone receiver module: UHF 655-679MHz 16 channels. For wireless microphones mod. MSHTM-1200M and MSHTM-1200P.



UHF

MSHRM-1200L

UHF master output receiver module for ASH-1200 extension.



UHF

MSHTM-1200L

UHF master output transmitter module for ASH-1200 extension.

FREQUENCIES	655-679 MHz 16 channels	823-865 MHz 16 channels	823-865 MHz 16 channels
DIMENSIONS	72 x 36 mm	33 x 56 mm	33 x 56 mm
WEIGHT	0.1 kg	0.08 kg	0.06 kg

CDM-1200

FEATURES CD/USB/SD/MP3 player module for ASH-1200. CD player. USB port for memory and hard drive connection. SD/SDHC/SDXC card reader. Quick access to multimedia content.

RESPONSE	20-20,000 Hz
DIMENSIONS	160 x 70 x 166 mm depth
WEIGHT	1.15 kg
ACCESSORIES	Remote control Batteries for remote control



ELECTRONICS INTERCOMMS

Pair of wireless intercoms. Manual, private, hands-free, and monitor mode. 4 transmission channels and broadcast mode. Possibility to use several intercoms at the same time on the same channel. Volume control. Desktop or wall format.



KW-866

COLOUR	Black
POWER SUPPLY	9 V DC, 0.5 A with included adapter or 4 LR6-AA alkaline batteries or rechargeable batteries
DIMENSIONS	192 x 25 x 90 mm depth
WEIGHT	0.1 kg

Pair of intercoms. Cable connection. Monitor function Main unit with call and audio transmission activation. Secondary unit with primary call. Volume control. Audio transmission indicator light. Desktop or wall format.



KE-404

POWER SUPPLY	1 x 9 V battery or with optional AC/DC adapter in main unit only
DIMENSIONS	135 x 30 x 90 mm depth
WEIGHT	0.3 kg
ACCESSORIES	15.5 m thin wire and staples

Set of 3 intercoms. Cable connection. Monitor function Main unit with call and audio transmission activation. Secondary unit with primary call. Volume control. Audio transmission indicator light. Desktop or wall format.

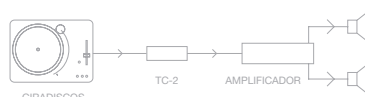


KE-282-3

POWER SUPPLY	1 x 9 V battery or with optional AC/DC adapter in main unit only
DIMENSIONS	135 x 30 x 90 mm depth
WEIGHT	0.5 kg
ACCESSORIES	2 x 15.5 m thin wire and staples

ELECTRONICS PREAMPLIFIERS AND ADAPTERS

Stereo pre-amplifier for turntables with magnetic capsule. Powered by 9 V battery.



TC-2

INPUTS	1 phono, 2 x RCA 50,000 Ω 3 mV
OUTPUTS	1 aux, 2 x RCA 50,000 Ω 1.8 V
RESPONSE	30-20,000 Hz
INDICATOR LIGHTS	LED power on indicator
POWER SUPPLY	1 x 9 V battery
DIMENSIONS	75 x 30 x 92 mm depth
WEIGHT	0.15 kg

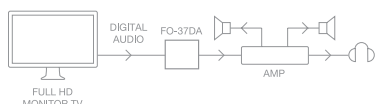
Stereo pre-amplifier for turntables with magnetic capsule.
Power adapter included. Ground terminal.

TC-7

INPUTS	1 phono, 2 x RCA 50,000 Ω 3 mV
OUTPUTS	1 aux, 2 x RCA 50,000 Ω 1.8 V
RESPONSE	30-20,000 Hz
INDICATOR LIGHTS	LED power on indicator
POWER SUPPLY	12 V DC, 0.2 A with adapter included
DIMENSIONS	75 x 30 x 95 mm depth
WEIGHT	0.2 kg
ACCESSORIES	2 x RCA audio cable



Digital audio to analogue converter. Inputs for optical and coaxial digital audio. Small size, easy installation and use.



FO-37DA

INPUTS	Optical SPDIF stereo, toslink 32-96 kHz Coaxial SPDIF stereo, RCA 32-96 kHz
OUTPUTS	Stereo audio, 2 x RCA
POWER SUPPLY	5 V DC, 1 A with adapter included
DIMENSIONS	64 x 26 x 42 mm depth
WEIGHT	0.1 kg



Digital to analogue audio converter with headphone output. Inputs for optical and coaxial digital audio. Small size, easy installation and use.

FO-38DAH **N!**

FEATURES	Digital audio to analogue converter. Headphone output. PCM SPDIF stereo format. 24-bit DAC, 32-96 kHz.
INPUTS	Optical SPDIF stereo, toslink 32-96 kHz Coaxial SPDIF stereo, RCA 32-96 kHz
OUTPUTS	Stereo audio, 2 x RCA Headphones, 3.5 mm jack
POWER SUPPLY	5 V DC, 1A with adapter included
DIMENSIONS	50 x 21 x 63 mm depth
WEIGHT	0.1 kg
ACCESSORIES	USB to micro USB power cable, 1.7 m

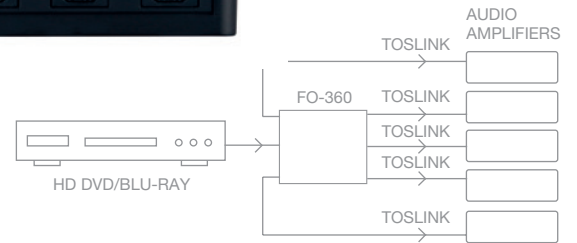


FO-39DAV **N!**

FEATURES	Digital audio to analogue converter. Headphone output. General volume control. PCM SPDIF stereo format. 24-bit DAC, 32-192 kHz.
INPUTS	Optical SPDIF stereo, toslink 32-192 kHz Coaxial SPDIF stereo, RCA 32-192 kHz
OUTPUTS	Stereo audio, 2 x RCA Stereo audio, 3.5 mm jack Headphones, 3.5 mm jack
CONTROLS	Input selector (Optical/Coaxial) Power on with volume control
POWER SUPPLY	5 V DC, 1A with adapter included
DIMENSIONS	87 x 31 x 89 mm depth
WEIGHT	0.12 kg
ACCESSORIES	USB to micro USB power cable, 1.7 m



Toslink optical digital audio splitter [1 input to 5 outputs].



FO-360

INPUTS	1 toslink
OUTPUTS	5 toslink
POWER SUPPLY	5 V DC, 0.25 A
ACCESSORIES	USB power cable

ELECTRONICS

DVB-T AND SATELLITE RECEIVERS

DVB-T2 HD receiver and PVR function with time shift: records TV programmes and plays back video, audio and image files.



DVB-T2/C2 H.265 HEVC

RDT-761HD

FEATURES	DVB-T2 HD receiver. DVB-T and DVB-T HD compatible. Video recorder (PVR with time shift): records and plays TV programs. USB port. Multimedia player of video, audio and images files. It supports high-efficiency video encoding (H.265 HEVC). HD output formats: 1080p, 1080i, 720p, 576p, 576i, 480p and 480i. HD output up to 1080p over HDMI and SD standard definition over europlug. Dolby D+, Dolby Digital. Subtitles, language selection in multi-audio channel and teletext. Allows channel editing (favourites, move, parental lock, delete and sort). Web menu options supported by the RT5370 WiFi USB adapter. Remote control. Multi-language and easy to use menu. High receiving sensitivity. Electronic Program Guide (EPG).
OUTPUTS	Audio/Video: HDMI SCART connector Coaxial digital audio, RCA
POWER SUPPLY	12 V DC, 1 A with adapter included
COLOUR	Black
DIMENSIONS	168 x 38 x 94 mm depth
WEIGHT	0.3 kg
ACCESSORIES	HDMI cable.

HD DVB-S2/MPEG-4/MPEG-2 satellite receiver with HDMI output, PVR function with time shift. Media player.



DVB-S2 H.264 FTA

RDS-523HD

FEATURES

DVB-S2 HD satellite receiver.
 Video recorder (PVR with Timeshift): records and plays TV programs.
 2 x 2.0 USB ports
 Multimedia player of video, audio and images files.
 Supports high-efficiency video encoding (H.264/MPEG-4 AVC).
 HD output formats: 1080p, 1080i, 720p, 576p, 576i, 480p and 480i.
 HD output up to 1080p over HDMI and SD standard definition over europlug.
 Screen format 4:3 and 16:9.
 Dolby D+, Dolby Digital.
 DiSeqC 1.0/1.1/1.2 (USALS).
 Subtitles, language selection in multi-audio channel and teletext.
 Electronic Program Guide (EPG).
 Saving and exporting channels and editing (favourites, moving, parental lock, deleting and sorting).
 Preloaded German channel list for German language.
 Multi-language and easy to use menu.
 Automatic and manual search.
 Software update via USB.
 Web menu options supported by the RT5370 WiFi USB adapter.
 Remote control.

OUTPUTS	Audio/Video: HDMI SCART connector Coaxial digital audio, RCA
POWER SUPPLY	12 V DC, 1 A with adapter included
COLOUR	Black
DIMENSIONS	220 x 42 x 150 mm depth
WEIGHT	0.4 kg
ACCESSORIES	HDMI cable. Batteries for remote control



DVB-S2 H.264 FTA

RDS-585WHD

DVB-S2 HD satellite receiver.
 DVB-S2/MPEG-4/MPEG-2.
 HD output formats: 1080p, 1080i, 720p, 576p y 480p.
 Personal video recorder (PVR with timeshift function).
 Media player.
 2.0 USB port
 Wi-Fi and ethernet.
 DiSeqC 1.0/1.1/1.2/1.3 (USALS).
 Remote control.
 Multi-language menu.
 Automatic and manual search.
 Edit channels (favourites, sort, edit, show list, move, lock, rename and delete).
 Software update via USB.
 Electronic Program Guide (EPG).
 4:3 and 16:9 screen.

HDMI	Composite video, RCA Stereo audio, 2 x RCA
POWER SUPPLY	12 V DC, 1 A with adapter included
COLOUR	Black
DIMENSIONS	220 x 44 x 140 mm depth
WEIGHT	0.4 kg
ACCESSORIES	HDMI cable. Batteries for remote control

ELECTRONICS

LIGHTNING AND EFFECTS

192 channel DMX 512 controller. Allows the control of 12 luminaries with up to 16 channels. It has 6 chase memories with 240 programmable scenes each, divided into 30 memory banks of 8 scenes each.

Manual control, automatic control or sound activation thanks to the built-in microphone.

It allows you to control and program spectacular lighting shows efficiently and quickly in nightclubs, pubs, discos and stages.

DMX

DMX-83

FEATURES

192 channel DMX 512 controller.
 Allows the independent control of 12 luminaries with up to 16 channels.
 8 sliders assignable to channels 1 to 8 or 9 to 16 for each access.
 6 chase memories with 184 programmable scenes each. The 184 scenes are distributed in 23 memory banks of 8 scenes each.
 8 scenes of direct selection.
 Programmable automatic sequence controlled by speed and time faders.
 Manual control, automatic control or sound activation thanks to the built-in microphone.
 Blackout function.

OUTPUTS	DMX OUT, 3 pin male XLR
POWER SUPPLY	9 V DC, 300 mA with adapter included
DIMENSIONS	482 x 132 x 73 mm depth. 3 U rack 19"
WEIGHT	2.5 kg



Wireless DMX transmitter and receiver.

DMX

400 m máx.

2,4 GHz

DTX-25

FEATURES

2.4 Ghz wireless DMX transmitter.
 Enables the wireless transmission of DMX control signals to the DMX mod. wireless receiver. DRX-24 (max. 80 receivers).
 Simultaneous operation of up to 7 transmitter.
 Plug and play connection.
 Easy to use and install without cables.
 Operation LED indicator.

TRANSMISSION DISTANCE	400 m maximum
INPUTS	DMX IN, 3 pin male XLR
POWER SUPPLY	5 V DC, 1 A with adapter included
DIMENSIONS	20 mm Ø x 220 mm depth
WEIGHT	77 g



DMX

2,4 GHz

DRX-24

FEATURES

2.4 Mhz wireless DMX receiver.
 Enables wireless reception of DMX control signals.
 Simultaneous operation of up to 80 receivers per DMX mod transmitter. DTX-25.
 Plug and play connection.
 Easy to use and install without cables.
 Operation LED indicator.

OUTPUTS	DMX OUT, 3 pin female XLR
POWER SUPPLY	5 V DC, 1 A with adapter included
DIMENSIONS	20 mm Ø x 225 mm depth
WEIGHT	78 g



ELECTRONICS

LIGHTNING AND EFFECTS

FONESTAR

High-performance flat PAR spotlights. They have automatic or DMX control. Ideal for all types of environments. Create spectacular lighting effects.



DMX AUTO RGB

PAR-180L

FEATURES

Flat PAR RGB spotlight.
Auto mode, static mode, sound activation and master/slave mode.
Colour, dimmer, strobe and transition speed adjustment via DMX controller.
Built-in microphone.

LED	6 x 30 W, COB RGB LED
DMX CHANNELS	7
INPUTS	DMX IN, 3 pin XLR
OUTPUTS	DMX OUT, 3 pin XLR
CONTROLS	Configuration screen
POWER SUPPLY	100-240 V AC, 200 W
DIMENSIONS	260 x 250 x 95 mm depth
WEIGHT	1.6 kg
ACCESSORIES	Adjustable fixing mount



DMX AUTO MOVING RGBW

DMX AUTO RGBW

PAR-BE60L

PAR-70L

FEATURES

2 in 1 PAR Bee Eye RGBW LED spotlight.
 LEDs contained in 6 lenses with hexagonal design.
 Kaleidoscopic effects
 Movement of the lens assembly in both directions.
 Operation in automatic and manual (colour and strobe adjustment) modes, sound activation, DMX control and master/slave mode.
 Colour selection, strobe, rotation and operating mode via integrated display.
 Colour selection, dimmer, rotation, strobe, effects and transition speed adjustable via DMX controller.
 Robust metal housing and fixing mount with double arc for floor mounting or cantilevered anchorage.
 Ideal for small-medium stages, halls and events.
 Installation can be extended with cascade connection.
 Built-in microphone.

Flat PAR RGBW LED spotlight.
 Operation in automatic, manual (colour and strobe adjustment), sound activation, DMX control, master/slave mode.
 Colour, strobe and operation mode selection via built-in display.
 Colour, dimmer, strobe and transition speed adjustment via DMX controller.
 Small dimensions and lightweight case.
 Rubber feet at the bottom for upward illumination.
 Double-arch mounting bracket for floor placement or cantilevered anchorage.
 Ideal for small stages and portable parties.
 Installation can be extended with cascade connection.
 Built-in microphone.

LED	6 x 10 W, RGBW (4 in 1)	7 x 10 W, LED RGBW (4 in 1)
DMX CHANNELS	5, 6 or 8, selectable,	4 or 8, selectable
INPUTS	DMX IN, 3 pin XLR	DMX IN, 3 pin XLR
OUTPUTS	DMX OUT, 3 pin XLR	DMX OUT, 3 pin XLR POWER OUT, 4.5 A maximum
CONTROLS	Configuration screen	Configuration screen
POWER SUPPLY	110-240 V AC, 70 W	110-240 V AC, 70 W
DIMENSIONS	165 x 165 x 165 mm depth	176 x 178 x 111 mm depth
WEIGHT	1.75 kg	0.65 kg
ACCESSORIES	Double-arch mounting bracket for floor installation, or cantilevered bracket	Fixing mount with double arc

ELECTRONICS

LIGHTNING AND EFFECTS

FONESTAR

High-performance, high-luminosity flat PAR spotlights. They have automatic or DMX control. Ideal for all types of environments. Create spectacular lighting effects.



DMX AUTO RGBW EXTRAFLAT

IP 65 DMX AUTO RGBW

FEATURES

PAR-189AL

Extraflat PAR RGBW LED spotlight. Operation in automatic, manual (colour and strobe adjustment), sound activation, DMX control, master/slave mode. Colour, strobe and operation mode selection via built-in display. Colour, dimmer, strobe and transition speed adjustment via DMX controller. Extra-flat design and sturdy aluminium housing. Double-arch mounting bracket for floor placement or cantilevered anchorage. Ideal for small-medium stages, halls and events. Installation can be extended with cascade connection. Built-in microphone.

LED	18 x 10 W, LED RGBW (4 in 1)
DMX CHANNELS	4 or 8, selectable
INPUTS	DMX IN, 3 pin XLR
OUTPUTS	DMX OUT, 3 pin XLR POWER OUT, 4 A maximum
CONTROLS	Configuration screen
POWER SUPPLY	100-240 V AC, 200 W, locking power connector
DIMENSIONS	270 x 220 x 70 mm depth
WEIGHT	2.3 kg
ACCESSORIES	Double-arch mounting bracket for floor installation, or cantilevered bracket

FEATURES

PAR-192WAL

Flat PAR RGBW LED spotlight. Outdoor use, IP-65 protection. Operation in automatic, manual (colour and strobe adjustment), sound activation, DMX control, master/slave mode. Colour, strobe and operation mode selection via built-in display. Colour, dimmer, strobe and transition speed adjustment via DMX controller. Extra-flat design and sturdy aluminium housing. Double-arch mounting bracket for floor placement or cantilevered anchorage. Ideal for small-medium stages, halls and events. Installation can be extended with cascade connection. Built-in microphone.

LED	18 x 10 W, LED RGBW (4 in 1)
DMX CHANNELS	4 or 8, selectable
INPUTS	DMX IN, 3 pin XLR, waterproof cable, 1 m
OUTPUTS	DMX OUT, 3 pin XLR, waterproof cable, 1 m POWER OUT, 4 A maximum, waterproof cable, 1 m
CONTROLS	Configuration screen
PROTECTIONS	IP-65
POWER SUPPLY	100-240 V AC, 180 W
DIMENSIONS	290 x 220 x 140 mm depth
WEIGHT	4.6 kg
ACCESSORIES	Double-arch mounting bracket for floor installation, or cantilevered bracket

ELECTRONICS

LIGHTNING AND EFFECTS

RGB LED bar. DMX control via 50 channels, automatic mode, static, sound activation or master/slave mode.

PAR-155CL

FEATURES

PAR LED COB WHITE spotlight.
COB LED technology, supports long periods of operation, optimal heat management. High power light for professional stage and object lighting. Operation in manual, DMX control or master/slave mode. Selection of light intensity, strobe and operating mode via integrated display. Dimmer and strobe selection via DMX controller. Rubber feet on the bottom for installation on flat surfaces.
Double-arch mounting bracket for floor placement or cantilevered anchorage. Includes protective grille and visors to limit the light beam. Ideal for professional installations: stages, theatres, exhibitions, concerts, etc. Scalable installation with cascade connection.

LED	1 x 150 W, WHITE COB LED
COLOUR TEMPERATURE	3,000-3,200 °K
BEAM ANGLE	60 °
ILLUMINANCE	2,400 lx (3 m)
LUMINOUS FLUX	8,500 lm
STROBOSCOPE	0-25 Hz
DMX CHANNELS	1 or 3, selectable
INPUTS	DMX IN, 3 pin XLR
OUTPUTS	DMX OUT, 3 pin XLR
CONTROLS	Configuration screen
POWER SUPPLY	100-240 V AC, 150 W, locking power connector
DIMENSIONS	180 x 150 x 180 mm depth
WEIGHT	2.7 kg
ACCESSORIES	Fixing mount with double arc Visors and protective grille



BAR-73L

FEATURES

RGB LED bar.
Individually controllable LEDs in groups of 12, 6 or 3.
Operation in automatic, manual (colour and strobe adjustment), sound activation, DMX control, master/slave mode.
Colour, strobe and operation mode selection via built-in display.
Colour, dimmer, strobe effects and transition speed adjustment via DMX controller.
Wall mount or cantilevered anchorage.
Compact metal housing 1 meter long.
Ideal for small-medium stages, halls, exhibitions and events.
Installation can be extended with cascade connection.
Built-in microphone.

LED	24 x 3 W, LED RGB (3 in 1)
DMX CHANNELS	2, 3, 4, 6, 7, 12 or 24 channels
INPUTS	DMX IN, 3 pin XLR
OUTPUTS	DMX OUT, 3 pin XLR POWER OUT, 4 A maximum
CONTROLS	Configuration screen
POWER SUPPLY	100-240 V AC, 80 W
DIMENSIONS	1,020 x 65 x 65 mm depth
WEIGHT	1.8 kg
ACCESSORIES	Adjustable fixing mounts

Spectacular moving heads that create amazing light effects. Automatic or DMX operation. Create the best effects in stages, dance halls and discos.



DMX AUTO MOVING RGBW

DMX AUTO MOVING RGBW

FEATURES

MOV-6060L

2-in-1 Spot Wash LED mobile head.
 6 x RGBW LED 1 x white LED.
 Combines 2 devices in 1 housing.
 Central LED: 7 colours + white and 7 gobos (patterns).
 Wide range of motion (horizontal and vertical).
 Indicated for lighting scenarios and performing light effects with selectable patterns.
 Operation in automatic mode, sound activation, DMX control and master/slave.
 Selection of operating mode and special settings (movements and display) via integrated display.
 Colour, dimmer, gobos, strobe, tilt and pan movements via DMX controller.
 Saves time and space on stage.
 Fan cooling.
 Metal body and black plastic.
 Rubber feet for surface mounting and mounting bracket.
 Built-in microphone.

MOV-72L

Wash RGBW LED mobile head.
 Wide range of motion (horizontal and vertical).
 Indicated for lighting up scenarios and creating light effects.
 Operation in automatic mode, sound activation, DMX control and master/slave.
 Selection of operating mode and special settings (movements and display) via integrated display.
 Colour, strobe, tilt and pan movements selection via DMX controller.
 Robust construction and reduced dimensions.
 Bright colours. Ideal for exhibitions, stages, halls and events.
 Fan cooling.
 Metal body and black plastic
 Installation can be extended with cascade connection.
 Rubber feet for surface mounting and mounting bracket.
 Built-in microphone.

LED	6 x 10 W, RGBW LED 1 x 60 W, WHITE LED	7 x 10 W, RGBW LED
PAN HORIZONTAL MOVEMENT	540°	540°
VERTICAL TILT MOVEMENT	180°	180°
DMX CHANNELS	13 or 18, selectable	9 or 14, selectable
INPUTS	DMX IN, 3 pin XLR	DMX IN, 3 pin XLR
OUTPUTS	DMX OUT, 3 pin XLR	DMX OUT, 3 pin XLR
CONTROLS	Configuration screen	Configuration screen
POWER SUPPLY	100-240 V AC, 120 W	100-240 V AC, 150 W
DIMENSIONS	160 x 230 x 130 mm depth	180 x 250 x 175 mm depth
WEIGHT	2.15 kg	2.7 kg
ACCESSORIES	Fixing mount	Fixing mount

ELECTRONICS

LIGHTNING AND EFFECTS

Smoke machines, essential to visualize the luminous effects.



RGB



RGB



RGB

FOG-4LED

FEATURES

Fog machine with 3 RGB LEDs.
400 W of power.
Combine the lighting effects of its 3 RGB LEDs with fog to create a variety of environments.
RF remote control.
Constant output volume.
Warm-up time: 8 minutes.
Automatic thermostat.
Use the remote control to select the colour of the lights and to activate the fog
Perfect for parties, theatres and small venues.

FOG-9LED

Fog machine with 6 RGB LEDs.
900 W of power.
Combine the lighting effects of its 6 RGB LEDs with fog to create a variety of environments.
RF remote control.
Constant output volume.
Warm-up time: 3 to 4 minutes.
Automatic thermostat.
Use the remote control to select the colour of the lights and to activate the fog
Ideal for small-medium scenarios, thematic activities and rooms.

FOG-15LED

Fog machine with 6 RGB LEDs.
1,500 W of power.
Combine the lighting effects of its 6 RGB LEDs with fog to create a variety of environments.
RF remote control.
Constant output volume.
Warm-up time: 3 to 4 minutes.
Automatic thermostat.
Use the remote control to select the colour of the lights and to activate the fog
Ideal for medium-big theatres, halls and events.

POWER	400 W	900 W	1500 W
LED	3 x 3 W, LED RGB (3 in 1)	6 x 3 W, RGB LED	6 x 3 W, RGB LED
INPUTS	For remote control, XLR	Remote cable, XLR	Remote cable, XLR
DEPOSIT CAPACITY	0.25 litres	1 litres	2.5 litres
BLAST RANGE	3.5 m	3 m	5 m
OUTPUT FLOW RATE	60 m ³ /min.	170 m ³ /min.	340 m ³ /min.
POWER SUPPLY	110/230 V AC, 400 W	100-240 V AC, 900 W	100-240 V AC, 1,500 W
DIMENSIONS	122 x 130 x 244 mm depth	260 x 190 x 346 mm depth	300 x 220 x 468 mm depth
WEIGHT	1.4 kg	3.2 kg	5 kg
ACCESSORIES	Adjustable fixing mount RF remote control	Adjustable fixing mount RF remote control	Adjustable fixing mount RF remote control

Bubble machine

BUBBLE-20 **NI**

FEATURES	Bubble machine. 20 W of power. Its fan provides a constant, high bubble flow. Automatic or manual operation mode, via RF remote control.
DEPOSIT CAPACITY	0.6 litres
RANGE	2 m
POWER SUPPLY	230 V AC, 20 W
DIMENSIONS	236 x 210 x 206 mm depth
WEIGHT	1.65 kg
ACCESSORIES	Adjustable fixing mount RF remote control
OPTIONAL	BUBBLE-FX: Bubble machine liquid





FOG-LIQUID22

FEATURES

5 litre fog liquid bottle for smoke machine.
High density and long permanence.
Colourless and odourless, non-toxic, non-flammable and safe.



Bubble machine liquid

BUBBLE-FX N!

FEATURES

Bubble machine liquid.
Colourless and odourless, non-toxic, non-flammable and safe.
Suitable for all types of bubble machines.
Ready to use.

ELECTRONICS

LIGHTNING AND EFFECTS. MOUNTS

Accessories for mounting lights and lighting effects.



T-6

FEATURES

1.5 m horizontal T bar with 6 hitches.
35 mm tube hole.
23 cm between hitches.
Built in iron, finished in black.

MAXIMUM BORNE WEIGHT	60 kg
DIMENSIONS	150 x 12 x 4.5 mm depth
WEIGHT	2 kg
ACCESSORIES	Fixing screws for lights



HK-60

FEATURES

Light hook for use with tube 60 mm Ø max.
Built in iron, finished in black.

MAXIMUM BORNE WEIGHT	22 kg
WEIGHT	0.2 kg

Support foot for lights with T-bar



RL-401

FEATURES

Light support foot with 3 folding legs base.
35 mm upper tube.
1.2 m horizontal bar with 4 hitches.
30 cm between hitches.
Built in iron, finished in black.

HEIGHT	Adjustable from 146 to 317 cm
MAXIMUM BORNE WEIGHT	30 kg
WEIGHT	6.6 kg
ACCESSORIES	Fixing screws for lights

ELECTRONICS

USB CHARGERS



Output cable Micro USB connector charger for mobile phones.



AD-60C

FEATURES

AC/DC charger 5 V, 1,000 MA.
Switched and stabilized.
High energetic efficiency.
For recharging mobile phones.

OUTPUTS

5 V DC (1,000 mA)

PROTECTIONS

Short circuit, overload and overvoltage

CABLE

1 m with micro USB connector

POWER SUPPLY

100-240 V AC, 0.15 A

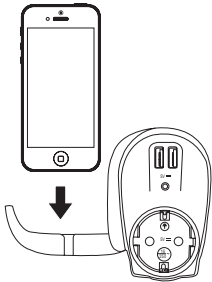
Charger with two USB outputs with charge and plug function to use the 230 power outlet while charging. Includes flip-down mount for mobile phone positioning.



2 x USB 5 V, 2.1 A

AD-22U

OUTPUTS	5 V DC (2,100 mA)
PROTECTIONS	Short circuit, overload and overheat
CONNECTORS	2 x female USB A Schuko female
INDICATOR LIGHTS	LED power on indicator
POWER SUPPLY	230 V AC
WEIGHT	0.1 kg



4 sockets and 2 USB ports power strip.
Allows you to connect multiple adapters at the same time avoiding overlap.
2 USB ports for charging smartphones, tablets, etc



2 x USB 5 V, 2.1 A 1.4 m CABLE

CUBIK-42UG

PROTECTIONS	Child-proof sockets
INDICATOR LIGHTS	LED power on indicator
COLOUR	White
WEIGHT	0.42 kg

ELECTRONICS

USB CHARGERS



USBPOWER-2

2 x USB 2 x 5 V, 2.4 A



4 x USB 3 x 5 V, 2.4 A

1 x QC 3.0 1.2 m CABLE

USBPOWER-4D



USBPOWER-3FAST

3 x USB 2 x 5 V, 2.4 A 1 x QC 3.0



USBPOWER-4

4 x USB 4 x 5 V, 2.4 A

	USBPOWER-2	USBPOWER-3FAST	USBPOWER-4	USBPOWER-4D
FEATURES	USB CHARGER, 24 W, 4.8 A. Stabilised. Adaptive load. For recharging mobile phones, tablets and USB devices.	USB CHARGER, 36 W, 7.8 A. Stabilised. 3.0 Quick charge port + 2 x charge port up to 2,4 A. Adaptive load. For recharging mobile phones, tablets and USB devices.	USB CHARGER, 24 W, 4.8 A. Stabilised. Adaptive load. For recharging mobile phones, tablets and USB devices.	USB charger, 40 W, 8 A Stabilised. 3.0 Quick charge port + 3 x charge port up to 2,4 A. Adaptive load. For recharging mobile phones, tablets and USB devices.
OUTPUTS	2 x 5 V DC (2.4 A) with adaptive load, total (4.8 A)	2 x 5 V DC (2.4 A) with adaptive load 1 x QC 3.0 (3.6-6.5 V DC, 3 A, 6.5-9 V DC, 2 A, 9-12 V DC, 1.5 A)	4 x 5 V DC (2.4 A) with adaptive load, total (4.8 A)	3 x 5 V DC (2.4 A) with adaptive load 1 x QC 3.0 (3.6-6.5 V DC, 3 A, 6.5-9 V DC, 2 A, 9-12 V DC, 1.5 A)
PROTECTIONS	Short circuit, overload and overheat	Short circuit, overload and overheat	Short circuit, overload and overheat	Short circuit, overload and overheat
CONNECTORS	2 x female USB A	3 x female USB A	4 x female USB A	4 x female USB A
POWER SUPPLY	100-240 V AC	100-240 V AC	100-240 V AC	100-240 V AC
DIMENSIONS	26 x 91 x 53 mm depth	28 x 102 x 62 mm depth	28 x 102 x 62 mm depth	28 x 58 x 91 mm depth with 1.2 m cable
WEIGHT	0.1 kg	0.1 kg	0.1 kg	0.16 kg

ELECTRONICS

CAR ADAPTERS

Car chargers. For recharging mobile phones, tablets and USB devices.



	USB-2CAR	USB-2CARFAST	USB-4CARBACK	USB-ALU2CAR	USB-ALU2CARFAST
FEATURES	USB charger, 17 W, 3.4 A. Stabilised. Adaptive load. For recharging mobile phones, tablets and USB devices.	Car charger, 30 W, 5.4 A. Stabilised. Quick charge 3.0 port + charge port up to 2,4 A. Adaptive load. For recharging mobile phones, tablets and USB devices.	Car charger, 48 W, 9.6 A. Stabilised. Adaptive load. Extension cable 1.8 m (possibility of 2 USB connectors for the front seats and 2 for the rear seats). For recharging mobile phones, tablets and USB devices.	Car charger, 24 W, 4.8 A. Stabilised. Adaptive load. Metal construction, elegant and compact design. For recharging mobile phones, tablets and USB devices.	Car charger, 36 W, 6 A, QC 3.0 Stabilised. 2 x 3.0 Quick Charge charging ports. Metal construction, elegant and compact design. For recharging mobile phones, tablets and USB devices.
OUTPUTS	2 x 5 V DC (2.4 A) with adaptive load, total (3.4 A)	1 x 5 V DC (2.4 A) with adaptive load 1 x QC 3.0 (3.6-6.5 V DC, 3 A, 6.5-9 V DC, 2 A, 9-12 V DC, 1.5 A)	4 x 5 V DC (2.4 A) with adaptive load, total (9.6 A)	2 x 5 V DC (2.4 A) with adaptive load, total (4.8 A)	2 x QC 3.0 (3.6-6.5 V DC, 3 A, 6.5-9 V DC, 2 A, 9-12 V DC, 1.5 A)
PROTECTIONS	Short circuit, overload and overheat	Short circuit, overload and overheat	Short circuit, overload and overheat	Short circuit, overload and overheat	Short circuit, overload and overheat
CONNECTORS	2 x female USB A	2 x female USB A	4 x female USB A	2 x female USB A	2 x female USB A
POWER SUPPLY	12-24 V DC	12-24 V DC	12-24 V DC	12-24 V DC	12-24 V DC

ELECTRONICS

ADAPTERS FOR COMMON APPLICATIONS

Switched and stabilized, high energy efficiency, with protections, interchangeable connectors for the most common DC connections.



AD-610E

FEATURES

7 W maximum
AC/DC 3 to 12 V, 600 mA adapter.
Switched and stabilised, high energetic efficiency.

OUTPUTS

Manual selection of 3, 4.5, 5, 6, 7.5, 9 and 12 V DC (600 mA)

PROTECTIONS

Short circuit, limiter, overload, over current and over voltage

CONNECTORS

USB A female
Male micro USB B
Jack 3.5, 5.5 x 2.1, 5 x 2.1, 4 x 1.7, 3.5 x 1.35, 2.35 x 0.75 mm

INDICATOR LIGHTS

LED power on indicator

POWER SUPPLY

100-240 V AC, 50-60 Hz

WEIGHT

0.1 kg

ACCESSORIES

8 interchangeable connectors



AD-1010E

FEATURES

12 W maximum
AC/DC 3 to 12 V, 1,000 mA adapter.
Switched and stabilised, high energetic efficiency.

OUTPUTS

Manual selection of 3, 4.5, 5, 6, 7.5, 9 and 12 V DC (1,000 mA)

PROTECTIONS

Short circuit, limiter, overload, over current and over voltage

CONNECTORS

USB A female
Male micro USB B
Jack 3.5, 5.5 x 2.5, 5.5 x 2.1, 4 x 1.7, 3.5 x 1.35, 2.35 x 0.75 mm

INDICATOR LIGHTS

LED power on indicator

POWER SUPPLY

100-240 V AC, 50-60 Hz

WEIGHT

0.1 kg

ACCESSORIES

8 interchangeable connectors



AD-1510E

FEATURES

18 W maximum
AC/DC 3 to 12 V, 1,500 mA adapter.
Switched and stabilised, high energetic efficiency.

OUTPUTS

Manual selection of 3, 4.5, 5, 6, 7.5, 9 and 12 V DC (1,500 mA)

PROTECTIONS

Short circuit, limiter, overload, over current and over voltage

CONNECTORS

USB A female
Male micro USB B
Jack 3.5, 5.5 x 2.1, 5 x 2.1, 4 x 1.7, 3.5 x 1.35, 2.35 x 0.75 mm

INDICATOR LIGHTS

LED power on indicator

POWER SUPPLY

100-240 V AC, 50-60 Hz

WEIGHT

0.1 kg

ACCESSORIES

8 interchangeable connectors



AD-2820E

FEATURES

AC/DC adapter 5 to 24 V, 2.8 A, 36 W max.
Switched and stabilised, high energetic efficiency.
90° angle connectors.

OUTPUTS

Manual selection
5 V (2.8 A), 6 V (2.8 A), 9 V (2.5 A), 12 V (2.2 A), 15 V (2 A), 18 V (1.7 A), 24 V (1.5 A)

PROTECTIONS

Short circuit, overload, overheat and overvoltage

CONNECTORS

Interchangeable connectors for common DC connections
USB A female, 5.5 x 2.5, 5 x 2.1, 3.5 jack, 3.5 x 1.4, 2.35 x 0.7, 4 x 1.7 (flat pin), 4.75 x 1.7 mm (flat pin)

INDICATOR LIGHTS

LED power on indicator

POWER SUPPLY

100-240 V AC, 50-60 Hz, 0.63 W

WEIGHT

0.2 kg

ACCESSORIES

8 interchangeable connectors



AD-2250E

FEATURES

27 W maximum, AC/DC 3 to 12 V, 2,250 mA adapter.
Switched and stabilised, high energetic efficiency.

OUTPUTS

Manual selection of 3, 4.5, 5, 6, 7.5, 9 and 12 V DC (2,250 mA)

PROTECTIONS

Short circuit, overload, over current and over voltage

CONNECTORS

Interchangeable connectors for common DC connections
Jack 3.5, 5.5 x 2.5, 5.5 x 2.1, 5.5 x 1.5, 5 x 2.1, 4 x 1.7, 3.5 x 1.35, 2.35 x 0.75 mm

INDICATOR LIGHTS

LED power on indicator

POWER SUPPLY

100-240 V AC, 50-60 Hz

WEIGHT

0.18 kg

ACCESSORIES

8 interchangeable connectors



AD-520F

FEATURES

AC/DC adapter.
5 V, 2,000 mA, 10 W.
8 interchangeable connectors for the most common DC connections.
Stabilised and with high energetic efficiency.

AD-1220F

AC/DC adapter.
12 V, 2,000 mA, 24 W.
Stabilised and with high energetic efficiency.

OUTPUT	5 V, 2,000 mA	12 V, 2,000 mA
PROTECTIONS	Shortcircuit and overcurrent	Shortcircuit and overcurrent
CONNECTORS	Jack 3.5, 5.5 x 2.5, 5.5 x 2.1, 5.5 x 1.5, 5 x 2.1, 4 x 1.7, 3.5 x 1.35, 2.35 x 0.7 mm	5.5 x 2.1 cm
CABLE	1.2 m	1.2 m
POWER SUPPLY	100-240 V AC, 50-60 Hz	100-240 V AC, 50-60 Hz
WEIGHT	0.1 kg	0.1 kg
ACCESSORIES	8 interchangeable connectors	-

ELECTRONICS CAR ADAPTERS

Stabilised car adapters.



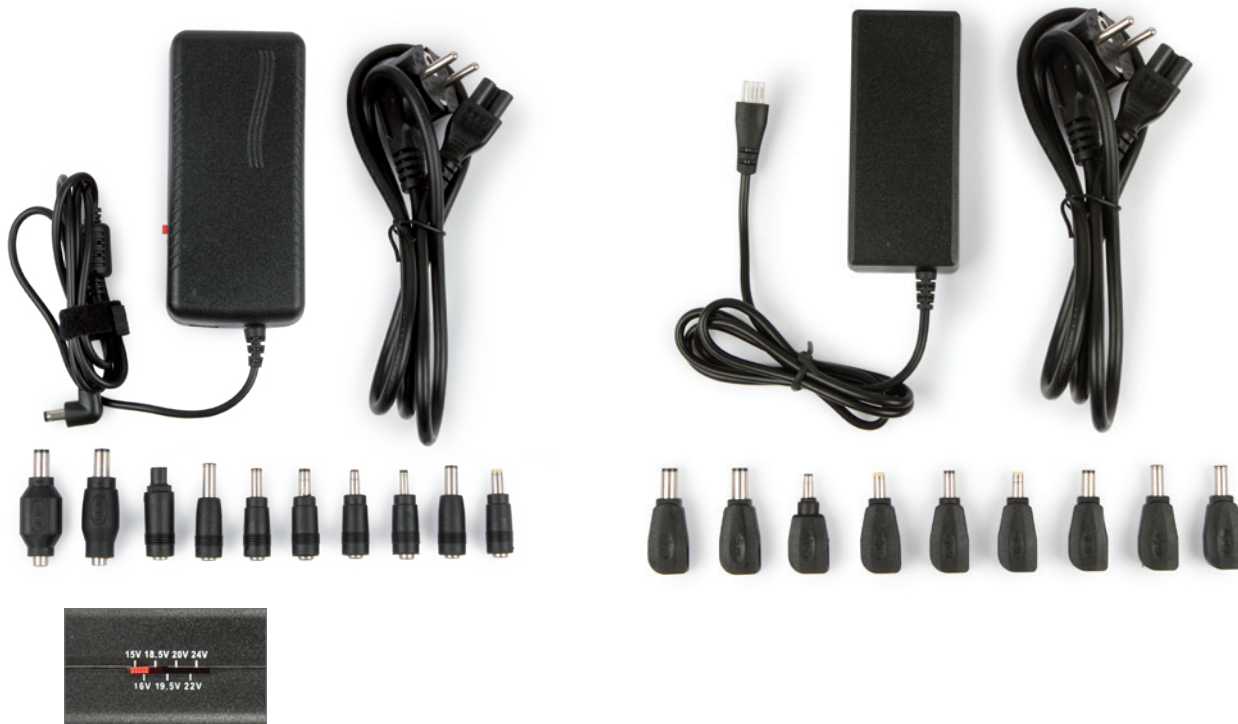
TL-2000

FEATURES	DC/DC adapter. 2,000 mA. Stabilised.
OUTPUTS	Manual selection of 1.5, 3, 4.5, 6, 7.5 and 9 V DC (2,000 mA), for 12 and 24 V input 12 V DC (2,000 mA) for 24 V input
PROTECTIONS	Electronics
CONNECTORS	Jack 3.5, 5.5 x 2.5, 5 x 2.1, 4 x 1.7, 3.5 x 1.35, walkman-discman 2.35 x 0.75 mm
INDICATOR LIGHTS	LED power on indicator
POWER SUPPLY	12-24 V DC
WEIGHT	0.2 kg
ACCESSORIES	6 interchangeable connectors

ELECTRONICS

ADAPTERS FOR PORTABLE DEVICES

Adapters for netbooks, laptops, monitors, etc.



AD-6590E

FEATURES

AC/DC adapter 15 to 24 V, 6 A, 90 W maximum and USB port 5 V, 2 A maximum.
Switched and stabilised, high energetic efficiency.
5 V USB port for power and charging.
For netbooks and laptops.

OUTPUTS

Manual selection of 15 V, 16 V, 18 V, 19.5 V, 20 V, 22 V and 24 V DC
Common voltages for included connectors:
15 V (3 A), 15 V (4 A), 15 V (5 A), 15 V (6 A), 16 V (3.36 A), 16 V (3.5 A), 16 V (3.75 A), 16 V (4 A), 16 V (4.5 A), 18 V (4.74 A), 18.5 V (1.1 A), 18.5 V (2.7 A), 18.5 V (3.5 A), 18.5 V (3.52 A), 18.5 V (3.8 A), 18.5 V (4.5 A), 18.5 V (4.9 A), 19 V (1.58 A), 19 V (2.64 A), 19 V (3.16 A), 19 V (3.42 A), 19 V (3.68 A), 19 V (3.95 A), 19 V (4.2 A), 19 V (4.22 A), 19 V (4.47 A), 19 V (4.74 A), 19.5 V (2.15 A), 19.5 V (3 A), 19.5 V (3.34 A), 19.5 V (4.1 A), 19.5 V (4.62 A), 19.5 V (4.7 A), 20 V (3.25 A), 20 V (3.5 A), 20 V DC (4.5 A)
USB port: 5 V DC (2 A)

CONNECTORS

A: 6.5 x 4.4 (Sony, Fujitsu with 16, 19 and 19.5 V inputs);
D: 6.3 x 3 (Toshiba with 15 V input);
F: 5.5 x 2.5 (Acer, HP/Compaq, Fujitsu, Toshiba with 16, 18.5, 19 and 19.5 V inputs);
G: 5.5 x 3 (Samsung with 16, 19 V input);
H: 3-pin (Dell 20 V);
N: 5.5 x 1.7 (Acer, Dell with 19 V input);
P: 4.8 x 1.7 (Asus, HP/Compaq, LG, Sony, Benq with inputs 18.5, 19 V);
S: 4 x 1.7 (HP/Compaq with 19 V input);
Q: 7.4 x 5 (Dell with 19.5 V input);
R: 7.4 x 5 (HP/Compaq with 18.5, 19 V input);

INDICATOR LIGHTS

LED power on indicator

POWER SUPPLY

100-240 V AC, 50-60 Hz

WEIGHT

0.3 kg

ACCESSORIES

10 interchangeable connectors

AD-7090A

90 W maximum, AC/DC 15 to 19.5 V, 6 A adapter.
Switched and stabilised, high energetic efficiency.
For notebook and laptops.

Automatic selection

Common voltages for included connectors:
15 V (5 A), 15 V (6 A), 16 V (4.5 A), 18.5 V (4.9 A), 19 V (3.95 A), 19 V (4.2 A), 19 V (4.22 A), 19 V (4.74 A), 19.5 V (4.1 A), 19.5 V (4.62 A), 19.5 V DC (4.7 A)

1: 6.5 x 4.4 (Sony, Fujitsu with 16 V input);
2: 6.5 x 4.4 (Sony, Fujitsu with 19.5 V input);
3: 6.3 x 3 (Toshiba, Nec with 15 V input);
4: 5.5 x 2.5 (IBM with 15 V input);
5: 5.5 x 2.5 (Dell, HP, Compaq, Acer, Toshiba, Lenovo with 18, 18.5, 19 and 19.5 V inputs);
7: 5.5 x 1.7 (Dell, Acer, HP, Lenovo with 19 V input);
8: 4.8 x 1.7 (HP, Compaq, Asus, Acer, Nec, LG with 18, 18.5, 19 and 19.5 V inputs);
9: 7.4 x 5 (Dell with 19.5 V input);
10: 7.4 x 5 (HP with 19, 19.5 V inputs);

LED power on indicator

100-240 V AC, 50-60 Hz

0.5 kg

9 interchangeable connectors

ELECTRONICS

ALKALINE BATTERIES

Alkaline magnesium dioxide.

0% Mercury, Lead and Cadmium

F-LR03

Blister with 4 alkaline batteries.

AAA-LR03.

1,200 mAh.

1.5 V.

Alkaline magnesium dioxide.

0% Mercury, Lead and Cadmium.

F-LR6

Blister with 4 alkaline batteries.

AA-LR6.

2,450 mAh.

1.5 V.

Alkaline magnesium dioxide.

0% Mercury, Lead and Cadmium.

F-LR14

Blister with 2 alkaline batteries.

C-LR14.

7,500 mAh.

1.5 V.

Alkaline magnesium dioxide.

0% Mercury, Lead and Cadmium.

F-LR20

Blister with 2 alkaline batteries.

D-LR20.

13,300 mAh.

1.5 V.

Alkaline magnesium dioxide.

0% Mercury, Lead and Cadmium.



F10-LR03 **N!**

Blister with 8+2 1.5 V LR03-AAA alkaline batteries.



F10-LR6 **N!**

Blister with 8+2 1.5 V LR6-AA alkaline batteries.

ELECTRONICS RECHARGEABLE BATTERIES

F-900AAA

Blister with 2 rechargeable Ni-MH AAA-R03 900 mAh batteries.
Load maintenance.
Loaded and ready to use.

F-2200AA

Blister with 2 rechargeable Ni-MH AA-R6 2,200 mAh batteries.
Load maintenance.
Loaded and ready to use.



ELECTRONICS BATTERY DISPLAY STANDS



EXP-PILAS-N

FONESTAR battery display stand
Dimensions: 345 x 480 x 130 mm
depth
Weight: 1.3 kg

ELECTRONICS BATTERY TESTER

S-0344

Compact standard battery tester of 1.5 V various sizes and 9 V.
Test batteries under charging conditions.
Quick and easy reading of battery status.



ELECTRONICS CLEANING ACCESSORIES

Cleaning kits for DVD, CD ROM and CD Audio.



LCD-136

Automatic laser lens cleaning disc for DVD players.
Cleans the lens and keeps it in perfect reading condition.
Complete video and audio test with spectacular images and sounds to check and adjust your DVD equipment.
With instructions in 11 languages.



FOX needle keywords

ZN	Sapphire, 78.
ZST	Sapphire stereo.
DST	Stereo Diamond.
ZST-ZST	Double tip: stereo sapphire and stereo sapphire.
DST-ZST	Double tip: stereo diamond and stereo sapphire.
DST-DST	Double tip: Stereo Diamond
DST-W	Premium stereo diamond

FOX. NEEDLES

N° FOX / NEEDLE / CAPSULE-NEEDLE MODEL

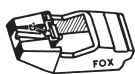
000



Steel
Standard 78
Box 10 u.

ADC

592



QLM-30/32/34/36
MK III

AIWA

518



AN-6

712



AN-7

618



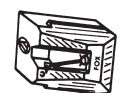
AN-36/EM-36

666



AN-71

710



AT-3410
ATN-3410

833



AN-10
AN-20

786



AN-11

N° FOX / NEEDLE / CAPSULE-NEEDLE MODEL

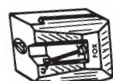
AKAI

832



RS-33/RS-35

710



RS-83

540



APN-2
APN-4
APN-5

786



RS-82

AMSTRAD

916



MS-35, MS-45, TS-46,
MX-100/200/200T
CDX-400/400T
Hi-Fi ceramic

833



CD1000
CD2000
CN-123

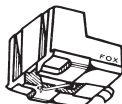
AUDIO TECHNICA

540



AT-VM8, VM8-7D,
AT-10/10L, AT-12,
ATS-10/10L, ATS-12C,
AT-MG35V/CN-2316R

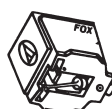
666



AT-71/71E,
ATN-71/71E
AT-770/770L/771
ATN-770/770L/771

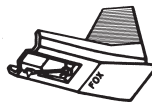
N° FOX / NEEDLE / CAPSULE-NEEDLE MODEL

786



AT-3601/3601E,
ATN-3601/3601E,
AT-3651/3651E,
ATN-3651/3651E,
AT-3652/3652E,
ATN-3652/3652E,
ATN-2001/2002/
2003/2004/
2005/2006,
AT-91/ATN-91

832



ATN-3472P/3472EP,
ATN-3482P,
ATN-3492P/3492EP

710



AT-3410,
ATN-3410

712



AT-3711/3711E
ATN-3711/3711E

B.S.R.

168



ST3, ST4, ST5, ST6

201



ST16/ST17

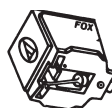
786



ATN-3600L

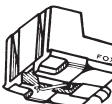
CEC CHUO DENKI

786



MM-8

666



VC-10S

N° FOX / NEEDLE / CAPSULE-NEEDLE MODEL

540



MC-12S

832



N-103

916



CZ-800, 6-2339,
6-2362
Plastic stem

970



CZ-800-3, 4, 7,
Metal stem

833



MG-1730 CN-213,
MG-1930 CN-213,
MG-1745 CN-222
Moving magnet

890



MG-2400 CN-219,
MG-2432 CN-232,
MG-2461 CN-235,
CN-224
Moving magnet

963



MG-2531
CN-234,
MG-2571
CN-253

CIRCLE READERS

381



One tip

382



60962

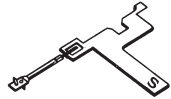
N°. FOX / NEEDLE / CAPSULE-NEEDLE MODEL

201



60988

375



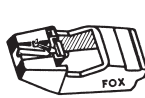
60996

168



60970

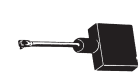
592



ADC-K

COSMO

382



Cosmo short

242



MK-23 Stereo (long)

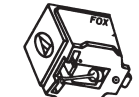
DARLING

833



M-22 Moving magnet

786



Fox 4034 DL-32E

518



AN-6 NM-321B

N°. FOX / NEEDLE / CAPSULE-NEEDLE MODEL

DENON

540



DSN-28/30

666



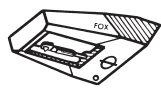
DSN-39/39C

833



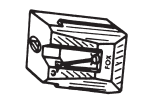
DSN-66 Moving magnet

916



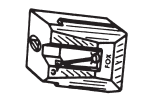
SJN-68

786



DSN-72 & YM-78K

710



ATN-3400

DUAL

123



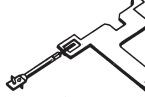
CDS-520, CDS-521, CDS-320, DN-3, DN-34, DN-32

191



DN-5, DN-55, DN-56, CDS-620, CDS-630

375



DN-6, DN-64, DN-7, CDS-640, CDS-650/656

540



D-201

N°. FOX / NEEDLE / CAPSULE-NEEDLE MODEL

303



D-305/306 (SH-44)

305



D-325 (SH-71)

484



DN-360/365 (SH-95G), DN-362/370 (SH-105ED)

832



DN-450, MMP-450, P-MOUNT

308



Fox 4010, 4012 Mg

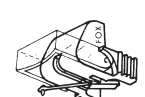
786



Fox 4034 DN-239 & DN-235

EMPIRE

723



800 II 900 II 1000 STII

FOX

076



Fox 2142

123



Fox 2110

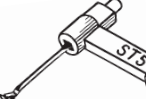
N°. FOX / NEEDLE / CAPSULE-NEEDLE MODEL

201



Fox 2122, 2123, 2132

168



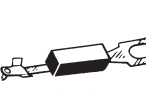
Fox 2156

381



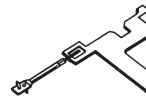
Fox 2167, 2168 One tip

048



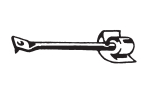
Fox 2183, 2185

375



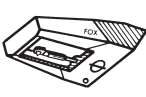
Fox 2198, 2199

135



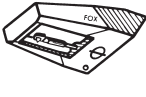
Fox 2505, 2506, 2508, 2517

916



Fox 2511 Plastic stem

970



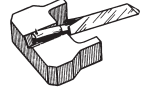
Fox 2511, 2512 Metal stem

308



Fox 4010, 4012 Mg

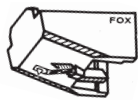
305



Fox 4024 Mg W

N°. FOX / NEEDLE / CAPSULE-NEEDLE MODEL

890



Fox 4028,
MG-2400
Moving magnet

833



Fox 4030
Moving magnet

832



Fox 4032

786



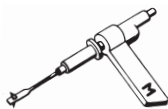
Fox 4034

191



DN-5, DN-55, DN-56,
CDS-620, CDS-630,
2115/2116/2141

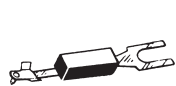
025



GP-200/204/
205/224/230/
235/300/306/
310, AG-3306/3310
2138/2173

HITACHI

048



HN-ST2/DS-ST9

168



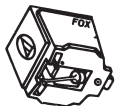
DS-ST4

832



DS-ST-12, MT-12,
DS-ST14,
DS-ST18,
RT-8500

786



DS-ST7
DS-ST20

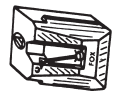
N°. FOX / NEEDLE / CAPSULE-NEEDLE MODEL

540



DS-ST26

710



DS-ST-35
36
41

INVES

916



Compact 100HF

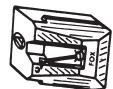
JVC (NIVICO)

540



DT-31

710



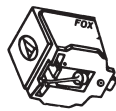
ATN-3400

832



DT-45/45E,
DT-57

786



DT-55, DT-55 II,
DT-55W

KENWOOD (TRIO)

540



N-32/N-33

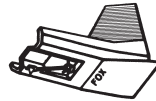
N°. FOX / NEEDLE / CAPSULE-NEEDLE MODEL

666



N-48

832



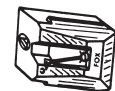
N-63

890



N-68

710



N-52

LENCO

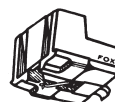
305



M-70,
M-75

LUXMAN

666



ATN-71E

786



ATN-3601

712



ATN-3711
ATN-3710

540

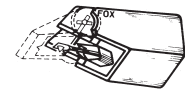


ATS-11

N°. FOX / NEEDLE / CAPSULE-NEEDLE MODEL

MAGNAVOX

840



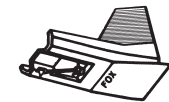
251300-79,
251300-81

592



560437-0021

832



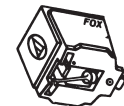
560437-0111

540



560336

786



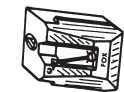
251300-71

666



560369

710



560429

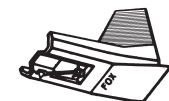
MARANTZ

712



CT-6S,
ATN-3711E

832



TT-140/240,
CT-165,
TT-430,
CT-440

746



TT-153/CT-153

N°. FOX / NEEDLE / CAPSULE-NEEDLE MODEL

N°. FOX / NEEDLE / CAPSULE-NEEDLE MODEL

N°. FOX / NEEDLE / CAPSULE-NEEDLE MODEL

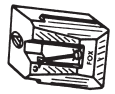
N°. FOX / NEEDLE / CAPSULE-NEEDLE MODEL

666



500S

710



CT-55,
1200,
2000,
3000,
ATN-3400

MITSUBISHI

832



DS-ST18,
3D-56M,
3D-57M

540



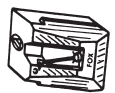
3D-40M

666



3D-42,
3D-45M

710



3D-47M

NEC

832



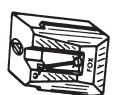
LP-444D

540



LP-7000D

710



ATN-3410
LP-335D
LP-355D

666



LP-6000D

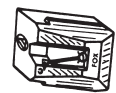
NORDMENDE

666



ATN-71

710



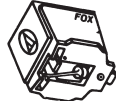
ATN-3410

540



ATN-12E (ATS-12)

786



ATN-3600

ONKYO

540



DN-27ST,
DN-32ST

666



DN-35ST

786



DN-61STE, OC-61VE,
DN-63STE, DN-65ST,
OC-65V/DN-68ST
(without protection)

618



DN-107

712



DN-201ST

710



DN-52ST
ATN-3400

PATHE

135



STC7, STCS,
STC41S, STC1000S,
STC-2000S

540



ATS-10/MG-35

666



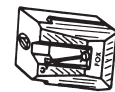
ATN-71

746



TT-153/CT-153
EPS-202E

710



ST-35

786



ATN-3600

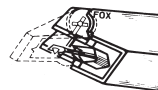
PHILIPS

025



GP-200/204/
205/224/230/
235/300/306/
310, AG-3306/3310

840



GP-330, GP-331,
GP-350/GP-351

618



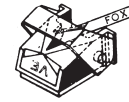
GP-371

378



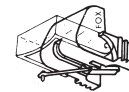
GP-400, GP-401

606



GP-400
Super M Mark-II.

723



GP-401 III, AGIII B

916



Compact F-1260
F-1650, F-1652,
P-284
Plastic stem

970



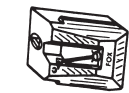
Compacts,
Metal stem

540



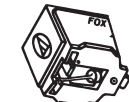
ST-35VD,
ST-36VD

710



GP-499

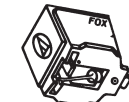
786



GP-780
ATN-3626

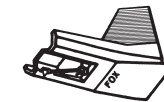
PIONEER

786



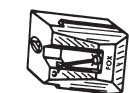
PN-210,
PN-230,
PN-240

832



PN-250T,
PN-295T, PC-295T,
PN-305T/PC-305T

710



PN-200,
PC-220

N°. FOX / NEEDLE / CAPSULE-NEEDLE MODEL

ROTEL

666



2RC-5

SABA

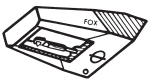
540



ATS-12
ATN-12ES

SAMSUNG

916



SM-Q500
Compact

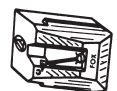
SANSUI

786



SN-111,
ATN-3601,
ATN-3361,
ATN-3362

710



SN-202

832



SN-P313, P515,
SN-323

540



SN-43

SANYO (FISHER)

N°. FOX / NEEDLE / CAPSULE-NEEDLE MODEL

168



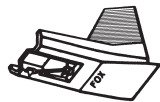
ST-3D/ST-4D

916



ST-W3J,
ST-04D, ST-05,
ST-141,
ST-140D

832



ST-F8D,
ST-M11,
ST-44J,
ATN-3472PS

963



ST-09D,
STW-17J

833



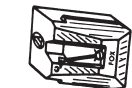
ST-G10
Moving magnet

540



ST-35VD,
ST-36VD

710



ST-42D

618



ST-48D, MG-48,
ST-107,
DCW 4800 VM

712



ST-53D/ST-53ZD

890

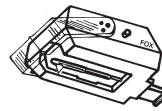


ST-66D/MG-66
Moving magnet

971

SA-111-10D

N°. FOX / NEEDLE / CAPSULE-NEEDLE MODEL



666



ST-26Y

786



ST-L5D & ST-40

SHARP

540



N-20D/STY-202

666



STY-115

618



STY-117,
CART-117

832



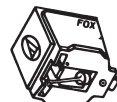
STY-131

048



STY-134

786



STY-138,
STY-140,
STY-142,
N-7900

916



STY-146

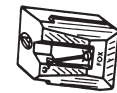
963



STY-152,
STY-153,
STY-158

710

N°. FOX / NEEDLE / CAPSULE-NEEDLE MODEL



STY-118

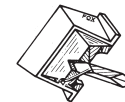
833



STY-143,
STY-147,
STY-148

SHURE

580



SC-35C/SS-35C

303



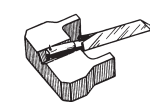
M-44, N-44-5/44-7/
44C/44G/44E,
24-0044,
M98/M98A

578



M-70, N-70/70-3/
70B/70EJ,
M78EDT2,
M110E/ME910EJ

305



M-75, N-75, TM-1S,
R7C, M-71/71C/
71EB/71EMB/
71MB/71MC,
M-71-6, N-71,
M-73G/73MG,
N-73/74C/75C/
75-6, M-81CS/
81ECS/81MC,
AV200C/RM930C

308



M-91, N-91/91G/
91GD/92G,
DM-101MG

484



95-ED, 95-EJ, 95-G,
N95ED, M95H,
M-95HE, M98,
EDT2, 105-ED,
M115ED,
D362/370,
RM950ED,
M959ED,
M995ED, R9000E,
E-LWS

Nº. FOX / NEEDLE / CAPSULE-NEEDLE MODEL

Nº. FOX / NEEDLE / CAPSULE-NEEDLE MODEL

Nº. FOX / NEEDLE / CAPSULE-NEEDLE MODEL

Nº. FOX / NEEDLE / CAPSULE-NEEDLE MODEL

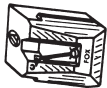
SIEMENS

592



QLM-30 MK III

710



RW-150

666



ATN-70

786



RS-326

SONY

712



ND-5G

598



ND-15/XL-15

048



ND-116P

540



ND-129G

786



ND-142G/142EP/
142EY,
VL-42G

832



ND-145G

747



ND-150G/XL-150

916



ND-152P

963



CN-234

844



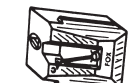
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ND-250E
XL-250E

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ND-136G

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ND-138G

STANTON

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PRO-Disco,
D-5107 AL

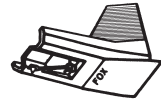
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832



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ATS-10



786



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**TECHNICS
(NATIONAL)(PANASONIC)**

746



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EPC-U24CS/U24ED/
U24E, EPS-25CS/25ES,
EPC-U25CS/U25ES/
U25ED,
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56ST,
EPS-270,
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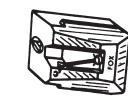
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EPS-74 STSD/
STED/STGSD/STGED,
EPC-78 SMAD

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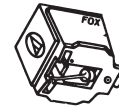
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S-50/S-80

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ATN-71

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ATN-3600
ATN-72

TEPPAZ

076



THOMSON

666



ATN-71

592



8151TA

FOX. NEEDLES

N°. FOX / NEEDLE / CAPSULE-NEEDLE MODEL

540



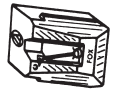
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ATS-11/11E

786



ATN-3600

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ATN-3400

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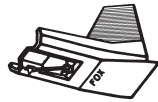
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N-14DY,
C-260M

N°. FOX / NEEDLE / CAPSULE-NEEDLE MODEL

832



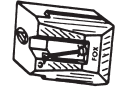
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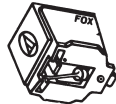
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N-71D

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ND-16D,

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N-77Y

N°. FOX / NEEDLE / CAPSULE-NEEDLE MODEL

YAMAHA

540



N-6500/CG-6500

746



N8300/8400

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N-102/N-103

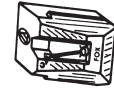
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N-7700/CG-7700
N-7800/CG-7800
N-7900/CG-7900

N°. FOX / NEEDLE / CAPSULE-NEEDLE MODEL

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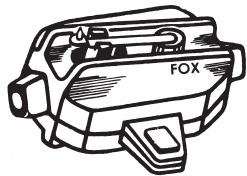


N-6700/CG-6700
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FOX. CAPSULES

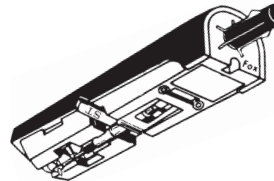
N°. FOX / NEEDLE / CAPSULE-NEEDLE MODEL

2142-ZST-ZST
2142-DST-ZST



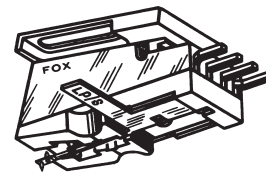
MONO CRYSTAL
Teppaz Eco
Telefunken

2173-ZST-ZST
2173-DST-ZST



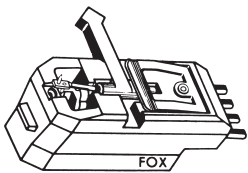
STEREO CERAMIC
GP-200
GP-204
GP-205
GP-314/GP-315

2501-ZST-ZST
2501-DST-ZST



STEREO CERAMIC
DUAL
CDS-660
CDS-671
With stand

2159-ZST-ZST
2159-DST-ZST



STEREO CERAMIC
Cosmo
TB 0020

2196-ZST
2196-DST



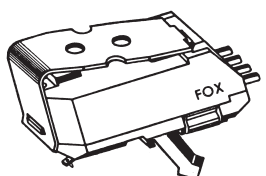
STEREO CERAMIC
GP-214
GP-215
Needle-capsule replacement
For GP-314, GP-315,
GP-814 & GP-815

2505-ZST
2505-DST



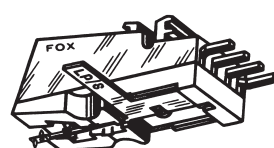
STEREO CERAMIC
Pathé
STC-S

2160-ZST-ZST
2160-DST-ZST



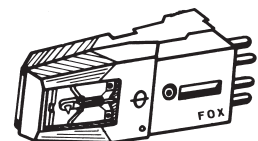
STEREO CERAMIC
Cosmo
TB 0020 CER

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2500-DST-ZST



STEREO CERAMIC
Dual
CDS-660
CDS-670

2511-ZST
2511-DST



STEREO CERAMIC
Sharp
STY-146
Chuo Denki
CZ-800

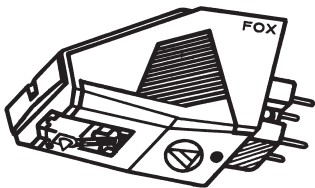
Diamonds and sapphires of the highest precision

Manufacture and repair with the maximum
quality controls

FOX

FOX. MAGNETIC PHONOCAPSULES

4032-DST-W

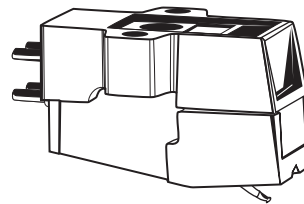


Fox
4032
Audio Technica
AT-101P
AT-3472P
AT-3482P
AT-3492P

MAGNETIC STEREO
20-20.000 Hz
5 mV 1 KHz 5 cm/s
1-2 g
Diamond:
W: 0.6 mil" - 15 μ

Universal P. mount series
Plug-in capsule

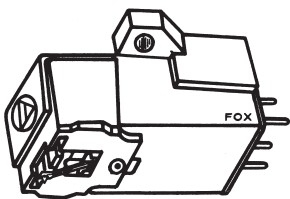
4044-DST-W



Fox
4044
System
connection by
cables with
terminales
connection
fast.
Nagaoka
C-711/C-721

MAGNETIC STEREO
20-20.000 Hz
3.5 mV 1 KHz 5 cm/s.
1.5-2.5 g.
Diamond:
W: 0.6 mil" - 15 μ
E: 0.3 x 0.7 mil" - 8x18 μ

4034-DST-W



Fox
4034
Audio Technica
AT-90/91/94
AT-3600/C/L
AT-3601/E
AT-3650/C/L
AT-3651/E
AT-3652/E

MAGNETIC STEREO
20-20.000 Hz
3.5 mV 1 KHz 5 cm/s
1.5-2.5 g
Diamond:
W: 0.6 mil" - 15 μ
E: 0.3 x 0.7 mil" - 8x18 μ

FOX. AUDIO ACCESSORIES

2341



Professional metallic stereo shell.

Specially designed to adapt magnetic phonocapsules to professional
or semi-professional arms.
EIA standard measures.
Colour: black matte

2361



Set of 4 wires with terminals for installation and replacement of
magnetic capsules in a capsule shell.
4 normalised colors.

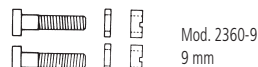
2322



Centring device-45
Cylindrical centring device for 17 cm discs,
45 r.p.m.
Colour: ivory.
Blister 10 u.

2360-9 / 2360-12 / 2360-16

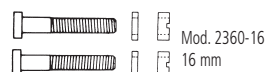
Sets of 10 screws with nuts and washers for installation and replacement of magnetic capsules in capsule shells.



10 screws of 9 mm length
with nuts and washers.



10 screws of 12 mm length
with nuts and washers.



10 screws of 16 mm length
with nuts and washers.

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