



COMMERCIAL AUDIO

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RCF BUILT ITS HISTORY OF SOUND AMPLIFICATION

Founded in 1949, RCF built its history of sound amplification from basic solutions for small spaces to vast and complex digital systems for theatres, shopping malls, airports, railway stations, underground metro's, exhibition centres, schools, hospitals, sports arenas, stadia, hotels.

Our Product's design and manufacturing are held in the Reggio Emilia headquarters where more than 240 people are employed ensuring the high quality of RCF's products and systems.

Today RCF produces a wide and diverse range of products to satisfy any sound and musical amplification need. This can range from a single product to complete integrated solution. In doing so, the company can cover everything from a small project to very large and complex system.

RCF controls every step of the production process, from the design to the construction and marketing of its products. Owning its own transducers technology gives RCF an enormous advantage in the development of complete speaker systems, achieving **the perfect match between transducers and electronics, now more and more focused on digital technology.**

RCF has always been committed in providing complete support to its customers helping them to choose the most suitable solutions for their projects, instruct on how to install the products in the correct way and achieve the best possible performances.

This support activity **is crucial to RCF's continual success** and we keep investing in this department by expanding our engineering team of product specialists as well as the use of the latest equipments and software technologies.

The direct involvement in groups and more complex projects around the world is continually raising the know-how, experience and reputation of our team of specialists that is considered one of the best **Engineering Support Group** in our industry.

A system design must always be carried out considering the acoustics of the environment, the architectural and installation constraints, the maintenance costs and, on top of everything, the user's requirements. **The extensive and complete range of RCF products enables the Engineering Support Group to submit multiple design solutions** optimized and tailored according to costs' and performances' requirements.

ESG engineers are also involved in educational and training activities where they can exchange information and opinion with consultants and contractors participating to the RCF Audio Academy program, an extensive range of courses and workshops organized worldwide on several subjects by RCF engineers.

Engineering Support Group is able to produce:

- Design proposal based on supplied venue details, including environment acoustic simulation, products list, bloc diagram, speaker coverage mapping.
- Design validation based on design submitted by the client providing guidance on the proper selection and placement of RCF products.
- Design of alternative solutions, based on existing specs, providing advice and improved system configurations based upon RCF products.
- Acoustical consultancy for the definition of projects specifications in cooperation with architects' and contractors' offices.
- On site system start-up and commissioning. Furthermore RCF provides on request rack already wired completed with connection diagrams and operation manuals.
- Educational and training activities, included in the RCF Audio Academy world-wide program, or tailor made for the client's requirements.

VOICE ALARM AND CONTROL AND INDICATION EQUIPMENT IN COMPLIANCE WITH EN 54-16 AND EN 60849

For the management and broadcast of background music and announcements, including evacuation and emergency, with controls and reporting in accordance with EN 54-16 and EN 60849.



MODEL

NUMBER OF ZONES FOR 100 V SYSTEMS

AMPLIFIERS AND SPEAKERS LINES REDUNDANCY MANAGEMENT

SPARE AMPLIFIER MANAGEMENT

NUMBER OF MICROPHONE CONSOLES

CONSOLE WITH INFORMATIVE/INTERACTIVE LCD DISPLAY

AUDIO CHANNELS

PROGRAMMABLE CONSOLES

INPUT FOR MUSIC SOURCES

AUX CONNECTIONS ANALOG. AUDIO IN/OUT

CONFIGURATION

INTEGRATED PRE-RECORDED EVACUATION/ROUTINE MESSAGES

DSP

CONNECTIVITY

CONSOLE CONNECTION CABLES

SYSTEM COMPONENTS CONNECTION CABLES

SPEAKERS CONNECTION CABLES

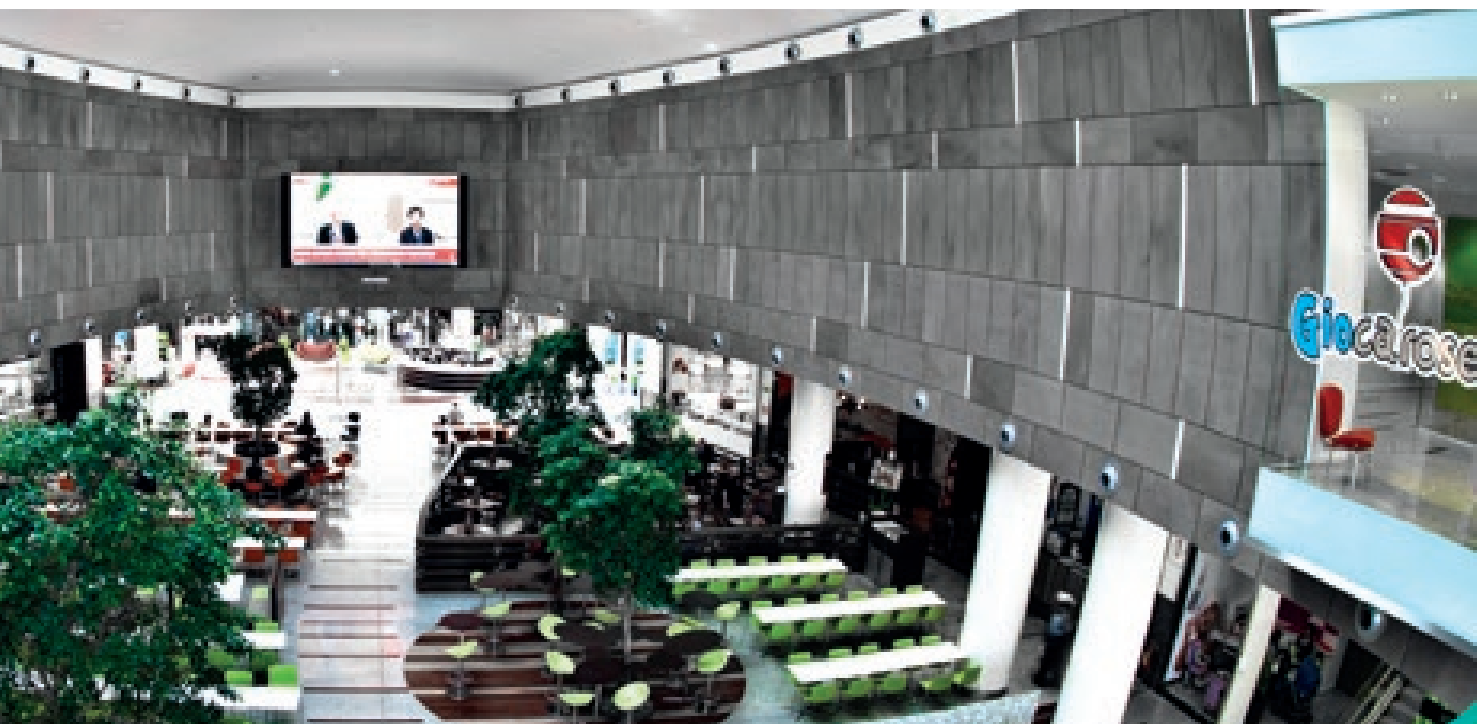
REMOTE CONTROLS

BACK-UP POWER SUPPLY

COMPLIANT TO EN 60849

CERTIFICATION EN 54-16

CERTIFICATION EN 54-4


DXT 7000

512
Yes
Yes
32
Yes
5 for each system's unit + 2 for the whole system
Yes
up to 5 for each system's unit
5 / 2 for each unit; 64 units for each system
PC
Yes / Yes
Yes
USB + Serial
CAT 6 FTP or J Type (RCF)
CAT 6 or J Type (RCF)
Pair of twisted cables, section depending on connected power and distance
Yes
48 V CC
Yes
Yes
Yes (with PS4248 and PS6648)


DXT 3000

2, 4 or 6 expandable to 48
Yes
Yes
up to 4
-
3
-
1 + internal reader MP3
-
Frontal panel + DIPs
Yes / -
Yes
-
CAT 6 FTP or J Type (RCF)
CAT 6 FTP or J Type (RCF)
Pair of twisted cables, section depending on connected power and distance
Yes
24 V CC (MX 3250) - 48 V CC (MX 3500) - intrnal batteries (not included)
Yes
Yes
Yes

MU 7100EN

| p/n 171.70.157

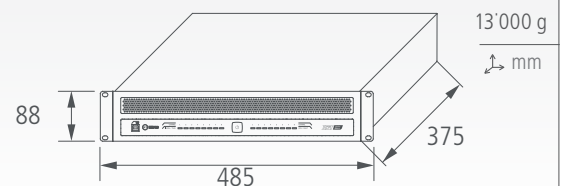


DIGITAL MATRIX DXT 7000 – 8 x 80 W



- The system has been designed to fulfil all requirements of EN 54-16 and EN 60849 standard
- Up to 32 units can be linked together in order to get an extended the systems
- Up to 256 loudspeaker lines and many paging stations
- The 8 digital internal amplifiers are highly reliable and excellent efficiency
- Small capacity requirement for unbreakable power supply sources (UPS) used in security applications
- The main unit can play all necessary evacuation and alarm messages previously stored into its built-in digital memory
- Digital Matrix 7 x 8 is configurable for several applications with routing to any output channel
- An automatic level control facility can be got by simply connecting an omnidirectional noise detection microphone to the inputs
- Efficient Digital Signal Processor (DSP): 5-Band Parametric EQ, High and Low Pass Filters, Compressor / Limiter, Level controls are provided
- Delay circuit for line array speaker applications
- Built-in WAV file message player (up to 128 messages)

REAR VIEW



SPECIFICATIONS

MU 7100EN

POWER OUTPUT	8 x 80 W RMS @ 8 Ω
FREQUENCY RESPONSE	20 ÷ 20.000 Hz (± 1 dB)
DISTORTION (THD+N)	< 0,05% @ 1 kHz
SIGNAL/NOISE RATE:	> 96 dBA
INPUT SENSITIVITY	-40 ÷ +6 dBu (8 mV ÷ 1,55 V)
INPUT IMPEDANCE	20 K Ω BALANCED
PHANTOM POWER	12 V
POWER SUPPLY	100 V A.C MIN., 240 V A.C MAX. @ 50 - 60 Hz, 48 V DC
INPUT CONNECTORS	REMOVABLE SCREW TERMINAL

LT 7208EN

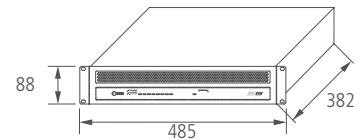
p/n 171.70.156



LINE TRANSFORMER INTERFACE



- The LT 7208EN unit has 8 internal transformers (80 W / each) to convert the 8 Ohm loudspeaker outputs of the MU 7100 central unit into constant voltage lines (100 - 70 - 50 V) for loudspeakers having transformers.
- The possible combinations are 8 x 80 W, 4 x 160 W and 2 x 320 W (or any combination from these).
- The LT 7208EN line transformer interface allows you to link/ group the 8 amplifiers to increase the power of the speaker lines two, three or four times
- If the needed speaker line power is more than 80W, several outputs (in groups made of 2, 3 or 4) can be connected together (in parallel) in order to get locked groups for 160 W, 240 W or 320 W lines
- Output line voltage setting (50-70-100 V) is made by changing the output tapping of each transformer
- Includes also line specific 24V dc outputs for override relays (max. current: 1A / line)
- Connection cable to MU 7100EN main unit 8 pcs. of 'end of line' unit, used when the loudspeaker line monitoring is provided
- The 'end of line' unit shall be installed right at the end of the line, near the last installed loudspeaker



SPECIFICATIONS

SPECIFICATIONS	LT 7208EN
POWER OUTPUT	8 x 80 W RMS COMBINABLE
OUTPUT VOLTAGE	100 V (OR INTERNALLY COMMUTABLE 70 V or 50 V)
INPUT IMPEDANCE	8 Ω BALANCED
OUTPUT CONNECTORS	REMOVABLE SCREW TERMINAL

MT 7308EN

p/n 171.70.159

POWER AMPLIFIER MANAGER

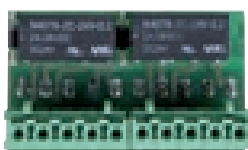


MT 7308 is suitable to control up to 8 additional power amplifiers and relevant speaker lines, according to EN 54-16 norm. It works connected to the MU 7100EN master system unit. When speaker lines drive high power loads, it could be convenient to optimize the system configuration by using one or more dedicated power amplifiers dimensioned according the loads involved.

AC 7212

p/n 171.70.152

SPARE AMPLIFIER CHANGE-OVER BOARD FOR LT 7208EN

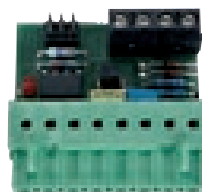


The board has 2 main 70-100V loudspeaker line inputs, spare amplifier input and output, 2 relays. AC 7212 terminal shall be directly connected to a pair of LT 7208EN loudspeaker 50-70-100 V outputs. The LT 7208EN override voltage output is used to activate the AC 7212 relay in case of the main amplifier is faulty and switch the spare amplifier output to the respective loudspeaker line.

SI 7120

p/n 171.70.153

MONITORED LOGICAL INPUT BOARD FOR MU 7100EN



The SI 7120 board is a system monitoring module for the DXT 7000 system. It monitors the operation condition of 2 lines coming from the fire alarm system to DXT 7000. If a line is open or shorted, the SI 7120 board will detect the fault and activate a command.

RO 7102

p/n 171.70.151

DRY OUTPUT CONTACT BOARD FOR MU 7100EN



A RO 7102 board can be directly connected to a pair of MU 7100EN control outputs. It converts the 2 MU 7100EN open-collector 'control outputs' to 2 dry closing contacts that can be used as commands or external devices. It also has resistors needed for monitored alarm lines.

BM 7608

DESKTOP PAGING MICROPHONE
8 CONFIGURABLE BUTTONS

p/n 143.22.015



BM 7608D

DESKTOP PAGING MICROPHONE WITH NUMERIC
KEYBOARD, LCD DISPLAY AND 8 CONFIGURABLE
BUTTONS

p/n 143.22.016



BM 7600 SERIES: SPECIFICATIONS

Paging microphone set monitored according to EN 54-16 norm.
The 8 configurable buttons can be programmed to send live microphone announcements in specific zones or groups of zones. There are dedicated buttons to access the emergency operation/functions, in order to send pre-recorded security messages or microphone announcements. It has a metal body and an high intelligibility microphone mounted on a 250mm gooseneck. One input on RCA stereo connector is available for

the direct connection of a program source (i.e. CD player), to be sent through the same audio channel where the console is connected when paging is not in progress. The console is powered through the same system bus or through a local optional power supply. The connection to the MU 7100EN master unit can be made by using a CAT 5 cable or a J-Type 4 twisted pair cable (es. Fire resistant model RCF CJ 428E).

SPECIFICATIONS

FREQUENCY RESPONSE (-3 dB)

AUDIO INPUT (AUX)

THD + N 1 kHz

CONNECTORS

AUDIO OUTPUT

EXTERNAL CONTROLLER

BM 7608 - BM 7608D

200-17000 Hz (mic) - 50-17000 Hz (aux)

-14 ÷ 0dB (adjustable)

<0,1%

RJ 45

3,5mm TRS connector

3 pin removable screw

SV 7982

REMOTE PROGRAMME
SELECTOR AND LEVEL
CONTROL DEVICE

p/n 171.70.140

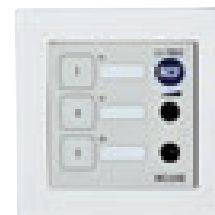


Used as local sound control device. It controls a zone group volume and operates as program selector. Connection to local or system bus by using CAT5/6 cabling. To be wall mounted by using with accessories provided.

LI 7903

REMOTE LOCAL
INPUT / CONTROL DEVICE

p/n 171.70.141



Used for connection and routing of a local program source (mono signal, 3.5 mm balanced stereo plug). 3 function keys can be individually programmed, for example, to route local program source to desired loudspeaker lines. To be wall mounted by using the accessories provided.

EL 7001

END OF LINE

p/n 635.31.167



Installed after the last speaker, it allows to accurately monitor speakers lines integrity. Suitable for DXT 7000 system.

BM 7608DFM



FIREMAN'S MICROPHONE PANEL WITH NUMERIC KEYBOARD, LCD DISPLAY AND 8 CONFIGURABLE BUTTONS

p/n 143.22.014



SERIE BM 7600: SPECIFICATIONS

Paging microphone set monitored according to EN 54-16 norm. The 8 configurable buttons can be programmed to send live microphone announcements in specific zones or groups of zones. The backlit LCD display reports several indications relevant to system operation and monitoring. The numeric keypad permits quick selective paging in single or multiple zones. Through a complete menu is also possible to address the music sources connected to the MU 7100EN to the system zones and to adjust amplifier volumes. There are dedicated buttons to access the emergency operation/functions, in order to send pre-recorded security messages or microphone announcements. It has a metal body and an high intelligibility hand-held microphone.

It is the emergency paging panel usually installed close to the building access points used by the Firemen. One input on RCA stereo connector is available for the direct

BM 7624D



MICROPHONE CONSOLE WITH NUMERIC KEYPAD, LCD DISPLAY AND 24 CONFIGURABLE BUTTONS

p/n 143.22.018



connection of a program source (i.e. CD player), to be sent through the same audio channel where the console is connected when paging is not in progress. The console is powered through the same system bus or through a local optional power supply. The connection to the MU 7100EN master unit can be made by using a CAT 5 cable or a J-Type 4 twisted pair cable (es. Fire resistant model RCF CJ 428E).

BM 7624D: the 24 configurable buttons can be programmed to send live microphone announcements in specific zones or groups of zones.

Thanks to the modular construction, paging stations with 40, 56, 72, 88, 104 or 120 configurable buttons are available on request.

SPECIFICATIONS

	BM 7608	BM 7624D
FREQUENCY RESPONSE (-3 dB)	200-17 000 Hz (mic) - 50-17 000 Hz (aux)	200-17 000 Hz (mic) - 50-17 000 Hz (aux)
AUDIO INPUT (AUX)	-14 ÷ 0dB (adjustable)	-14 ÷ 0dB (regolabile)
THD + N 1 kHz	<0,1%	<0,1%
CONNECTORS	RJ45	RJ 45
AUDIO OUTPUT	3,5mm TRS connector	3,5mm TRS connector
EXTERNAL CONTROLLER	3 pin removable screw	removibile a vite 3 pin

PS 4248

p/n 171.00.005

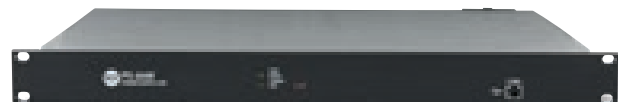
48 VCC POWER SUPPLY CERTIFIED EN 54-4



PS 6648

p/n 171.00.006

48 VCC POWER SUPPLY CERTIFIED EN 54-4



PS 4248 and PS 6648 are a power supply unit suitable to get continuity power for EN 54-16 systems units like DXT 7000, and relevant complementary devices in case of mains power supply interruptions. It includes recharging and monitoring functions for the lead-acid batteries connected to it. It must be equipped with batteries with suitable capacity, dimensioned according to the system power absorption and to the evacuation requirements.

SPECIFICATIONS

	PS 4248	PS 6648
POWER FACTOR	1.34	1.34
EFFICIENCY (DURING BATTERY CHARGING)	84%	84%
BATTERY NOMINAL VOLTAGE	48 V	48 V
MAX. CURRENT FROM MAIN OUTPUTS	4 x 15 A	6 x 15 A
MAX. CURRENT FROM AUXILIARY OUTPUTS	2 x 2 A	4 x 2 A
MAXIMUM CAPACITY OF CONNECTED BATTERIES	200 Ah	200 Ah
MAX. CHARGING CURRENT	2 ÷ 8 A	2 ÷ 8 A
MAX. RESISTANCE OF BATTERY CIRCUIT	30 ÷ 100 mOhm	30 ÷ 100 mOhm
BATTERY DISCONNECTION THRESHOLD	40.8 V	40.8 V
OPERATING VOLTAGE	220-240 V~ 50Hz	220-240 V~ 50Hz

MX 3250/2
MX 3250/4
MX 3250/6

MASTER UNIT WITH AMPLIFIERS - 250 W



| p/n 171.70.177

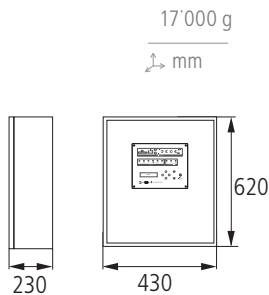
| p/n 171.70.183

| p/n 171.70.184

- MX 3250 is the master unit of the evacuation system DXT 3000, dedicated to small and medium size applications, where an EN 54-16:2008 system is required.
- It includes a digital DSP-based master unit equipped with up to 6 RCF Class D+ power amplifiers, able to provide up to 250W on 100V or 70V speaker lines.
- A spare power amplifier with automatic replacement of a faulty unit is configurable too.
- It hosts batteries and the necessary EN54-4 circuitry for the DC back-up. Furthermore it offers inputs, controls and pre-recorded messages to get a real plug & play solution.
- The system can be completed with monitored paging consoles BM 3804 and 6 button extensions BE 3806, allow to complete the installation by adding live announcements. Local single-button paging consoles (not monitored) BM 3022 and background music programs can be implemented as well.
- DXT 3000 system has been designed to be wired by using very convenient fire-rated J-TYPE cables for paging console and interlink connections.
- Emergency messages on monitored SD card
- Integrated audio source on front panel

MX 3500/2
MX 3500/4
MX 3500/6

MASTER UNIT WITH AMPLIFIERS - 500 W



| p/n 121.00.009

| p/n 121.00.010

| p/n 121.00.011

- MX 3500 is the master unit of the evacuation system DXT 3000, dedicated to small and medium size applications, where an EN 54-16:2008 system is required.
- It includes a digital DSP-based master unit equipped with up to 6 RCF Class D+ power amplifiers, able to provide up to 500W on 100V or 70V speaker lines.
- A spare power amplifier with automatic replacement of a faulty unit is configurable too. It hosts batteries and the necessary EN54-4 circuitry for the DC back-up.
- Furthermore it offers inputs, controls and pre-recorded messages to get a real plug & play solution.
- The system can be completed with monitored paging consoles BM 3804, BM 3804FM and 6 button extensions BE 3806, allow to complete the installation by adding live announcements. Local single-button paging consoles (not monitored) BM 3022 and background music programs can be implemented as well.
- DXT 3000 system has been designed to be wired by using very convenient fire-rated J-TYPE cables for paging console and interlink connections.
- Emergency messages on monitored SD card
- Integrated audio source on front panel

SPECIFICATIONS

	MX 3250	MX 3500
POWER	up to 250W distributed in 2, 4 or 6 zones	up to 500W distributed in 2, 4 or 6 zone
FREQUENCY RESPONSE	80 ÷ 16.000 Hz (± 1 dB)	80 ÷ 16.000 Hz (± 1 dB)
DISTORTION (THD + N):	< 0,3% @ 1 kHz	< 0,3% @ 1 kHz
SPEAKERS LINE OUTPUT:	100 V, 70 V	100 V, 70 V
SIGNAL/NOISE RATE:	> 70 dBA	> 80 dBA
AC POWER:	220-240/115 V~ 50/60Hz selection internal	220-240/115 V~ 50/60Hz selection internal
DC POWER:	24 V DC	48 V DC

DXT 3000 PLANNER

VOICE ALARM SYSTEM DESIGN SOFTWARE

The software allows configuring small and medium VOICE-ALARM systems in accordance to the regulations (prescriptive method), using EN 54-24 loudspeakers and EN 54-16 management electronics of the RCF DXT 3000 Series (250W and 500W models; 2, 4 and 6 zones, in stand-alone or networked configuration) and related accessories. Free software download from web site.



BM 3804

DESK-TOP PAGING MICROPHONE

p/n 143.80.028

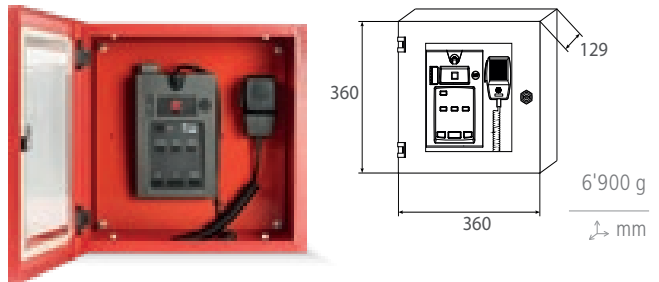


- BM 3804 is a desktop paging microphone exclusively dedicated for the RCF DXT 3000 system. It can be directly connected to the MX 3250 main unit through a fourpair J-type fire-rated cable.
- Up to four BM 3804 paging microphones (interlocked one another) can be linked (daisy-chained) to the line.

BM 3804FM

MULTI-ZONE EMERGENCY FIREMEN MICROPHONE

p/n 143.80.037

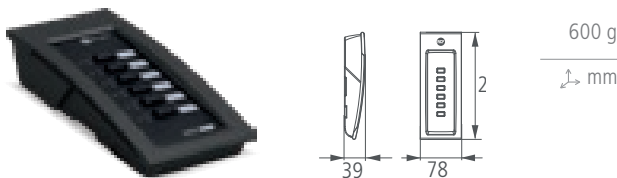


- Hosted in a closed wall mounting red metal cabinet, with glass door to access console status
- This version is equipped with dynamic microphone, with incorporated push to talk button, and can be used in combination with a BE 3806 (also installed inside the cabinet), to improve selective calls efficiency.

BE 3806

ADDITIONAL KEYBOARD FOR BM 3804

p/n 143.80.036

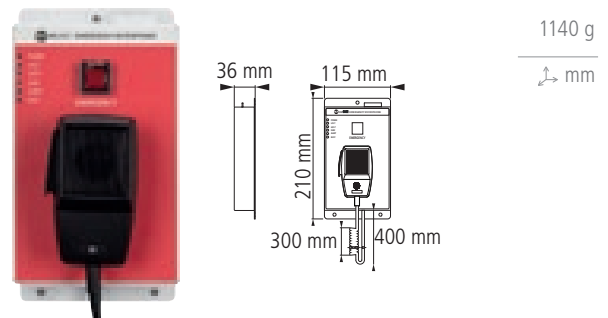


- BE 3806 is an additional keyboard, which has six buttons for the six-zone selection of a complete MX 3250 main unit (with two or three amplifier boards).

ME 3801

WALL MOUNT EMERGENCY MICROPHONE

p/n 143.22.030



- ME 3801 is a wall mount emergency microphone exclusively dedicated for the RCF DXT 3000 system. It allows to make general calls, with priority over all other inputs (included pre-recorded messages during ALERT and EVAC events), and can be directly connected to the MX 3250 / MX 3500 main unit through a four-pair J-type fire-rated cable.
- ME 3801 can be installed together with other paging microphones BM 3804 and BM 3804FM (up to a maximum of 4, interlocked one another), and shall be the first in the line.

EOL 3-9

END OF LINE

p/n 171.70.176

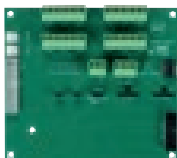
- The end of line terminator EOL 3-9 is a component that allow to accurately monitor speakers lines integrity
- Plastic case UL 94 V0
- Ceramic terminal with termo-fuse for cables connection



IE 3008

DXT 3000 INTERLINK BOARD

p/n 123.99.015

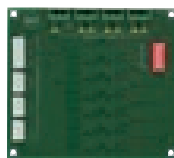


- It allows connecting up to 8 master units, in a MASTER/SLAVE configuration
- The system units communicate over 2 eight poles euroblock connectors, in order to guarantee a fully redundant network.
- Local paging for non-emergency purpose is also possible.

MG 3006

MONITORED GPI BOARD

p/n 133.60.344

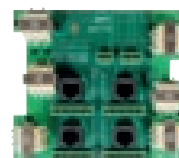


- It allows to monitor emergency system general purpose inputs (GPI), and detect (and report) any open line or short circuit along the path between DXT 3000 and other alarm devices, such as alarm buttons.
- MG 3006 is installed inside the MX 3250 cabinet, and powered (24V) directly by the system.
- General and single zone alarm activation

IT 3010

DXT 3000 TRANSFORMERS BOARD

p/n 123.99.049



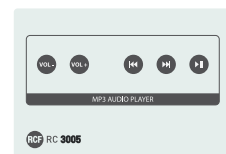
- IT 3010 is an additional board for DXT 3000 that shall be used in combination with IE 3008 interlink board only. Thanks to its 6 line transformers, it is helpful in all those installations when the audio signal may be affected by high noises along system's units connections. Moreover, it offers the possibility to connect DXT 3000 units using both removable screw terminals and RJ 45 plugs, improving installation efficiency and flexibility.

RC 3005

WALL MOUNT REMOTE CONTROL

p/n 123.99.044

RC 3005 is a wall mount remote control that allows to manage the music source integrated in the master units front panel. Design with a universal wall mount mechanics.



MULTI-ZONE SYSTEMS

Paging and background music to different zones.



MODEL	MS 520	ZM 2000
MAX NUMBER OF ZONES	5 (expandable to 10)	6 (expandable to 54)
MAX. NUMBER OF PAGING MICROPHONES	1	6
AUDIO CHANNELS	5 to LINE level	2
PAGING MIC. PROGRAMMING	-	YES (chime)
SYSTEM SETUP	YES	YES
SYSTEM SETUP DISPLAY	LCD	LCD
PAGING MICROPHONE CABLES	To be chosen according to the used paging microphone and the number of paged zones	RJ45
LOUDSPEAKER CABLES	Twisted Pair	Twisted Pair
REMOTE CONTROLS	YES	YES
MUSIC ON/OFF ON EACH ZONE	YES	YES
DIRECT CURRENT POWER SUPPLY	-	YES

MS 520

p/n 121.35.043

RCFAmbiente

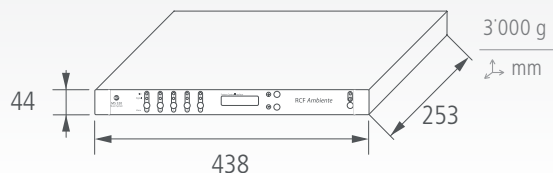
AMPLIFIER / CONTROL UNIT



- MS 520 contains all functions required by a system to send different musical programmes in homes and commercial premises
- Three different musical programmes and one for paging can be sent to five mono zones or, alternatively, 3 mono zones and one stereo zone
- It is also possible link two RCF AMBIENTE and share the music sources in order to extend the number of zones to ten
- Its backlit display and function keys make it possible to access all menus to configure and adjust the system: volume, tone, loudness, output settings, 'VOX'
- The third music source input can have priority (when enabled) over the other two music sources
- Power outlet controlled by the system to switch a connected sound sources on/off
- Black label provided for front panel

- Five amplified 20 W / 4 ohm outputs, each also available as full-range or low-pass signal at line level on RCA connectors to drive external power amplifiers (when areas to be covered are particularly large)
- A direct auxiliary input is available for each of the five zones to connect sources such as CD players, wireless microphones or mixers to be used exclusively for one zone/room
- The universal MIC-LINE input can be used for paging, with the possibility to have a tone that precedes the announcement
- The VOX function can be matched to a zone group to work without pressing keys or closing contacts (e.g. from a suitable private telephone exchange)
- For each zone, an RJ 45 connector allows the connection of remote controls (max. 3 per zone) via CAT5 cable for volume control, musical programme selection or direct input activation installable in any electrical mounting box by using the original local country supports and cover-plates

REAR VIEW



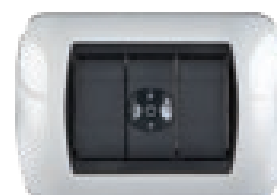
SPECIFICATIONS

SPECIFICATIONS	MS 520
OUTPUT POWER	5 x 20 W RMS
FREQUENCY RESPONSE	20 ÷ 18000 Hz (± 3 dB)
T.H.D.	< 0.5% @ 1 kHz
MIN. OUTPUT LOAD (PER ZONE)	4 Ω
TONE CONTROLS	LOW: 100 Hz ± 8 dB; HIGH: 12.5 kHz ± 8 dB
SIGNAL / NOISE RATIO	> 60 dB (PAGING IN); > 78 dB (MUSIC SOURCE IN, DIRECT IN)
INPUT SENSITIVITY	(MIC) - 58 dBu ÷ - 41 dBu (1 ÷ 7 mV); (LINE) - 43 dBu ÷ -27 dBu (5.5 ÷ 35 mV); (MUSIC, DIRECT) - 16 dBu (120 mV)
PHANTOM POWER SUPPLY (PAGING INPUT)	16 V dc
POWER SUPPLY	100 ÷ 240 V ac (50 - 60 Hz)
INPUT CONNECTORS	11 x RCA (LINE), RJ 45 FOR REMOTE CONTROLS
OUTPUT CONNECTORS	7 x RCA, SCREW TERMINALS FOR LOUDSPEAKERS

RC 62

REMOTE CONTROL
FOR RCF MS 520

- RC 62-W bianco p/n 133.60.039
- RC 62-G grigio p/n 133.60.040
- RC 62-S argento p/n 133.60.041



Designed to be simply inserted into any 503 flush / wall mounted box using original standard supports and cover-plates that can be found on the market.

It allows to select programmes and adjust the volume in the respective zone. It can turn the MS 520 in stand-by mode as well.

It can be linked to a MS 520 by using CAT5 cables and RJ 45 plugs.

Available in white (W), grey (G) and silver (S)

* The picture above shows a possible installation of the RC 62 remote control (box, front plate, blank keys are not included).

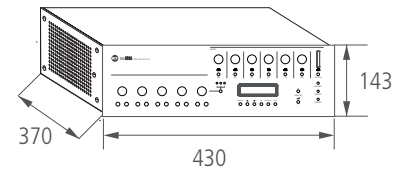
ZM 2124

240W 6 ZONES POWERED
MASTER UNIT

p/n 121.35.085



16'100 g
↑ mm



- Dual-bus system architecture
- System Paging consoles input for up to 6 selective devices daisy-chained, aux input and overall emergency input on precedence primary bus
- 4 inputs of which 2 microphone and 2 universal, 3 selectable aux inputs with individual volume and tone controls with configurable priority on secondary bus
- 240W constant voltage power amplifier with VU-meter for output signal level and overload indication.
- Auxiliary external amplifier input and output terminals to manage primary and secondary buses independently
- Volume attenuators and switches with indicators to send or not the secondary bus program (i.e. music) on each of the 6 speaker line outputs
- Link to connect up to eight ZE 2200 6six-zone expansion units so to built-up paging systems in excess of 50 zones.
- Priority indicator to show when any system priority circuit has been triggered
- Selectable chime generator is available on announcements
- GPI and GPO logic ports are available for interface purposes with third parties systems and for monitoring feedback

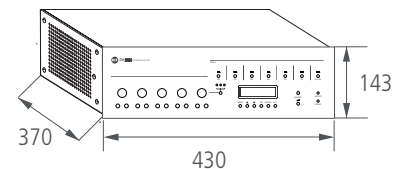
ZM 2100

6 ZONES PRE-AMPLIFIED
MASTER UNIT

p/n 171.70.166



8'200 g
↑ mm



- System Paging consoles input for up to 6 selective devices daisy-chained, aux input and overall emergency input on precedence primary bus
- 4 inputs of which 2 microphone and 2 universal, 3 selectable aux inputs with individual volume and tone controls with configurable priority on secondary bus
- Interconnection terminals for power amplifiers to manage primary and secondary buses independently, using 100V single or dual amplifier configuration or 0dB multi-amplifier configuration according to system requirements
- Switches with indicators to send or not the secondary bus program (i.e. music) on each of the 6 output zones
- Link to connect up to eight ZE 2200 6six-zone expansion units so to built-up paging systems in excess of 50 zones.
- Priority indicator to show when any system priority circuit has been triggered
- Selectable chime generator is available on announcements
- GPI and GPO logic ports are available for interface purposes with third parties systems and for monitoring feedback.
- Dedicated wall mounting system remote control allows you to remote the main commands available on the master unit
- RS 232 port for FW upgrade and communication/interface purposes

SPECIFICATIONS

	ZM 2124	ZM 2100
INTERNAL AMPLIFIER MAX. OUTPUT POWER	240 W	-
INTERNAL AMPLIFIER OUTPUT VOLTAGE	100 – 70 V (direct), 100 V (6 zones)	-
FREQUENCY RESPONSE (+1 / -3 dB)	MIC: 60 Hz ÷ 15 kHz ; AUX: 50 Hz ÷ 20 kHz	
DISTORTION	< 1%	
INPUT SENSITIVITY MIC/LINE/AUX	1,5 mV (– 54 dBu) / 200 mV (– 12 dBu) / 200 mV (– 12 dBu)	
NOISE/SIGNAL RATIO INPUT MIC/LINE/AUX	> 60 dB / > 70 dB / > 75 dB	
INPUT IMPEDANCE MIC/LINE/AUX	600 Ω (balanced) / 600 Ω (balanced) / 10 kΩ (unbalanced)	
INPUTS	4 input mic. + 3 aux su RCA + 2 paging	
OUTPUTS	6 (power)	6 a 100 V / 0 dB depending on the configuration
EMERGENCY INPUT SENSITIVITY	100 mV (unbalanced audio signal), 100 V line	
SIGNAL/NOISE RATIO EMERGENCY INPUT	> 70 dB	
EMERGENCY INPUT IMPEDANCE	600 Ω (balanced audio signal, input 100 mV)	
POWER SUPPLY	115 V / 230 V ac, 24 V dc	
MAX POWER CONSUMPTION	720 W	100 W

BM 2006

PAGING MICROPHONE

p/n 143.22.021



- 6 zone buttons for selective announcements
- 1 general call button.
- Up to 6 consoles can be linked to the main unit.

BE 2012

EXTENSION MODULE

p/n 143.22.022



- 12 buttons for selective announcements on the zones.
- Extension for BM 2006 console
- Up to 4 extensions can be linked to BM2006

RC 2946

WALL MOUNT REMOTE CONTROL

p/n 133.60.237



- Wall mount remote control for the main units.
- It controls the unit zones, source and volume (shown on the display).
- Input for an external audio source.
- Balanced mic input for announcements.
- Inputs are mixable and adjustable.

SPECIFICATIONS

	BM 2600	BE 2012
POWER HANDLING	24 V c.c.	24 V c.c. (with BM 2006)
MAX ABSORBED POWER	50 mA (BM 2006 only) 130 mA (with 1 BE 2012) 210 mA (with 2 BE 2012) 290 mA (with 3 BE 2012) 370 mA (with 4 BE 2012)	80 mA (with one single BE 2012)
MAX. OUTPUT LEVEL	1 V (RMS)	-
FREQUENCY RESPONSE	100 Hz ÷ 15 kHz	-
VOICE FILTER	high pass, cutoff frequency: 315 Hz 6 dB / octave	-
DIMENSIONS (L, H, P)	108 mm, 55 mm, 240 mm (BM 2006 only)	108 mm, 55 mm, 240 mm
WEIGHT	1 kg (solo BM 2006)	0,7 kg

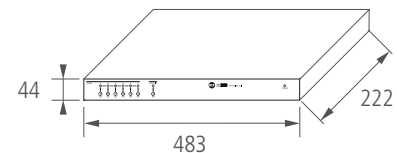
ZE 2200

6 ZONES EXPANSION UNIT

p/n 171.70.167

3400 g

↕ mm



- Direct link to ZM 2100 or ZM 2124 to expand the number of the system output zones till 54 by linking up to 8 devices in daisy-chain wiring topology
- 6 zone management based on ZM 2000 dual-bus system architecture: primary and secondary buses. Interconnection terminals for power amplifiers to manage primary and secondary buses independently
- GPI and GPO logic ports are available for interface purposes with third parties systems and for monitoring feedback.

SPECIFICATIONS

	ZE 2200
FREQUENCY RESPONSE (+1 / -3 dB)	50 Hz ÷ 20 kHz
AUX INPUT SENSITIVITY	1 V (+ 2 dBu)
SIGNAL/NOISE RATIO INPUT AUX	> 75 dB
IMPEDANCE INPUT AUX	10 kΩ (unbalanced)
INPUTS / OUTPUTS	6 a 100 V / 0 dB depending on the configuration
POWER SUPPLY	115 V / 230 V ac (50-60 Hz), 24 V
MAX POWER CONSUMPTION	15 W

CONFERENCE SYSTEMS

Flexible, easy to use and install.
Suitable for any small hall and council chambers.

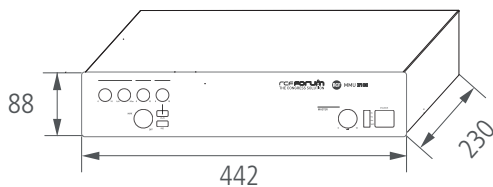


MMU 3100

p/n 171.80.042

MASTER UNIT

5'200 g
↕ mm



- Input to connect up to 80 microphone sets with volume and voice EQ controls
- Additional universal input on both XLR and removable screw terminals for lectern microphone or interview microphone or other sources with volume and voice EQ controls. Input can be set as mixed or with precedence on the system microphone consoles, controlled by an external command or voice activated; Phantom power available.
- Input and outputs connections to an external recorder/player device, PLAY / REC selector switches with LED indicators. Volume control and tone EQ on PLAY-OUT
- Teleconference dedicated input and output
- Sound reinforcement and recording system output
- Built-in power amplifier to feed the consoles speakers with volume selector
- Built-in 80W power amplifier output with volume control for additional constant voltage sound reinforcement speakers
- Connection to link two MMU 3100 units to increase microphones sets to 160 units
- 2U 19" standard rack, mounting ears provided

SPECIFICATIONS

POWER SUPPLY

MAXIMUM POWER CONSUMPTION

DIMENSIONS (W X H X D)

WEIGHT

DESK INPUT

SENSITIVITY

IMPEDANCE

INGRESSO PLAY

SENSITIVITY

IMPEDANCE

MIXER OUT

MAXIMUM POWER LEVEL

IMPEDANCE

RECORDING OUTPUT

FREQUENCY RESPONSE (-3 dB)

S/N RATIO

MMU 3100

115-230V / 50-60 Hz

240 W

442 x 88 x 230 mm

4 Kg

-7 dBu (max. + 13 dBu)

1 Ω

-7 dBu (max. + 13 dBu)

20 Ω

+21 dBu

100 Ω

35 Hz ÷ 20 kHz

≥ 85 dBA

MMS 3405P

DELEGATE MICROPHONE SET

p/n 143.22.019

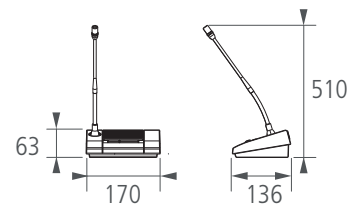


SPECIFICATIONS

MICROPHONE CAPSULE
TYPE
SENSITIVITY
FREQUENCY RESPONSE
SPEAKER POWER
CONNECTORS
WEIGHT

1'000 g

↕ mm



- Delegate Microphone Set MMS 3404D
- PRO-quality cardioid microphone with LED ring mounted on 46cm gooseneck
- Push-to-lock switch for microphone activation in mixed mode, with LED indicator
- Hi quality transducer for sound reinforcement purpose, automatically disabled when microphone is active
- RJ 45 terminals for daisy-chain link to MMS 3405P chairman console through CAT5 FTP cable
- Robust shielded enclosure suitable for desktop or semi-flush mounting

MMS 3404D

ELECTRET
HYPERCARDIOID
0.56 mV / Pa
70 Hz ÷ 18 kHz
1 W
RJ 45
1 kg

MMS 3404D

CHAIRMAN MICROPHONE SET

p/n 143.22.020

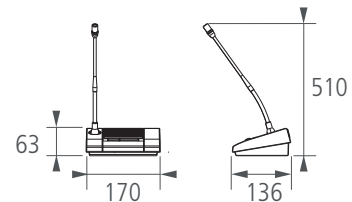


SPECIFICATIONS

MICROPHONE CAPSULE
TYPE
SENSITIVITY
FREQUENCY RESPONSE
SPEAKER POWER
CONNECTORS
WEIGHT

1'000 g

↕ mm



- Chairman Microphone Set MMS 3405P
- PRO-quality cardioid microphone with LED ring mounted on 46cm gooseneck
- Push-to-lock switch for microphone activation in mixed mode, with LED indicator
- Push-to-talk switch for microphone activation in priority mode, with LED indicator
- Hi quality transducer for sound reinforcement purpose, automatically disabled when microphone is active
- RJ 45 terminal for the connection to MMU 3100 master unit through CAT5 FTP cable
- Two RJ 45 connectors to daisy-chain delegate consoles branches through CAT5 FTP cable
- Robust shielded enclosure suitable for desktop or semi-flush mounting

MMS 3405P

ELECTRET
HYPERCARDIOID
0.56 mV / Pa
70 Hz ÷ 18 kHz
1 W
RJ 45
1 kg

DMU 6100

MASTER UNIT

p/n 171.80.010



SPECIFICATIONS

OPERATING VOLTAGE

MAX. CURRENT

MAXIMUM POWER CONSUMPTION

OPERATING TEMPERATURE

SIZE (L X A X P)

WEIGHT

MIC/LINE INPUTS

FREQUENCY RESPONSE (-3 DB)

HIGH-PASS FILTER

S/N RATIO

PLAY INPUT

FREQUENCY RESPONSE (-3 DB)

S/N RATIO

MAIN OUT

OUTPUT LEVEL

PRESENCE CONTROL

SYSTEM OUTPUT

FREQUENCY RESPONSE (-3 DB)

S/N RATIO

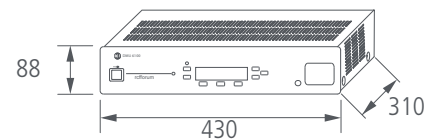
5'600 g

mm

88

430

310



- Two universal inputs for connecting any additional sources such as a wireless microphone or a lectern microphone or any other complementary device, even a mixer-preamplifier
- Two inputs can be configured in different ways; for instance they can be mixed with the system audio, have priority on system microphone sets, one mixed and one priority etc.
- Dedicated IN and OUT connections are available echo-free for the link to a teleconference system
- VOX operation or command operation are available
- The command switch can be programmed to work as FORCED-ON or FORCED-OFF always through configuration menu
- REC-PLAY input and outputs associated to a switch allow the connection of any recorder/player.
- 4 additional Auxiliary Outputs are available for the independent recording of the 2 universal inputs and each of the 2 lines of microphone sets

DMU 6100

100 ÷ 240 Vac (50 - 60 HZ)

1,7 A (230 V) / 3,5 A (115 V)

200 W

0 ÷ 50°C

430 X 88 X 310 mm

5,6 kg

50 Hz ÷ 20 kHz

12 dB / OCT (-3 dB AT 100 Hz)

≥ 65 dBA (MIC) / ≥ 85 dBA (LINE)

50 Hz ÷ 20 kHz

≥ 85 dBA

0 dBu (THD <0.1%); MAX +20 dBu (THD 0,5%)

MAX 15 dB @ 2.1 kHz

35 Hz ÷ 20 kHz

≥ 85 dBA

DEC 6104

EXPANDER BOARD

p/n 171.80.034



- Up to 180 DMS 6410 microphone consoles on 6 lines (4 line outputs are on the DEC 6104 board)
- The further 120 consoles shall be powered by the DPS 6202 power supply unit
- USB port to connect the system to a PC
- FORUM 6000 control software included
- RS 485 port (alternative to the USB port) for long distance control (up to 1.2 km) of the system through the PC software
- Anti-feedback processor, useful to avoid feedbacks due to loudspeakers too close to microphones, loudspeaker high volume and many open microphones at the same time. PLAY INPUT

DPS 6202

ADDITIONAL POWER SUPPLY UNIT

p/n 171.80.033



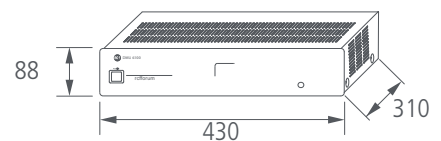
5'650 g

mm

88

430

310



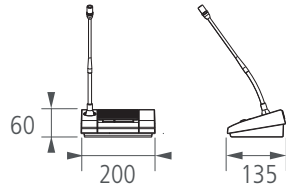
- Strictly necessary for the console lines 3 to 6 linked to the DEC 6104 board (to power consoles from the 61 to 180)
- Dual Switching power supply
- Main switch with ON LED indicator on front panel
- LINE LEDs indicate when console lines are correctly powered
- Power output on 7-pin XLR connector (connection cable to DEC 6104 provided)

DMS 6410

MICROPHONE CONSOLE

p/n 171.80.011

1'000 g
↕ mm



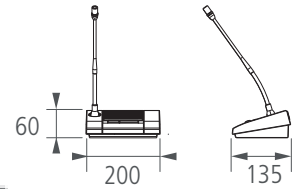
- Each console can be set to 1 of the 3 available modes: chairman (max. 3), delegate, interpreter (max. 2).
- Standard system: up to 60 consoles DMS 6410 (2 lines; 30 consoles per line connected in daisychain)
- Expanded system: up to 180 consoles DMS 6410 (6 lines; 30 consoles per line connected in daisychain).

DMS 6410X

MICROPHONE CONSOLE
REMOVABLE GOOSENECK

p/n 171.80.011

1'000 g
↕ mm



- Standard system: up to 60 consoles DMS 6410 (2 lines; 30 consoles per line connected in daisychain)
- Expanded system: up to 180 consoles DMS 6410 (6 lines; 30 consoles per line connected in daisychain). The further 120 consoles can be added by installing the optional board DEC 6104 into the central unit DMU 6100 and connecting the external power supply unit DPS 6202
- 2 aux inputs, A and B, with XLR sockets, each configurable by means of DIP switches (PHANTOM, MIC / LINE, HIGH-PASS) and with a gain control and an enable / mute command
- Audio input PLAY and audio output SYSTEM for recording
- Audio input and output for teleconference
- Simultaneous / sequential translation (1 translated language)

SPECIFICATIONS

DMS 6410 - DMS 6410X

MICROPHONE TYPE	ELETTRETE, CARDIOIDE, (only for DMS 6410X) with gooseneck removable via xlr5 connector
FREQUENCY RESPONSE (-3 DB)	200 Hz ÷ 12 kHz
S/N RATIO	≥ 60 dBA
INTERNAL LIMITER	Up to + 32dB over 100% level
MIC AUTO-OFF SIGNAL THRESHOLD	-20 dB
VOLTAGE; CURRENT	48 V dc; nominale < 20 mA, max. 50 mA (internal Ispk. : max. volume)
INTERNAL AMPLIFIER POWER	1 W (THD <1%)
DIMENSIONS (BASE ONLY; L, H, P)	200 mm, 135 mm, 63 mm
WEIGHT	1,09 kg (DMS 6410) / 1.26 kg (DMS 6410X)
GOOSENECK MIC. LENGTH	440 mm
INCLUDED CONNECTION CABLE	pole special cable with RJ connectors, 2.5 m long
JACK OUTPUTS	
MAX. POWER (HEADPHONES MODE)	60 mW su 16 Ω (<0,5% THD)
OUTPUT LEVEL (RECORDING MODE)	nominal: - 4 dBu (0,2% THD), max. + 5 dBu
FREQUENCY RESPONSE (-3 DB)	170 Hz ÷ 16 kHz

DTC 6012

p/n 171.80.033

DMS 6410X MICROPHONE CONSOLE TRANSPORT CASE

- DMS 6410X microphone consoles can be stored in the case
- Aluminum hi-composite construction with rugged chromium-plated metal reinforced angles
- Separated microphone and cables compartments
- Soft inner protections against shocks for a safer transport
- Comfortable top handle



MICROPHONES AND WIRELESS MICROPHONES

Optimised in the voice frequency range to guarantee maximum speech clarity.



MODEL	MD 7600	MD 7800
TYPE	Dynamic	Dynamic
POLAR PATTERN	Supercardioid	Supercardioid
FREQUENCY RESPONSE	60 ÷ 16000 Hz	60 ÷ 20000 Hz
SENSITIVITY (0 dB=1V/ μ bar, 1kHz)	- 75 dB	- 70 dB
PHANTOM PWR. SUPPLY	-	-
CONNECTOR	3 pole XLR (M)	3 pole XLR (M)
ON/OFF SWITCH	Yes	Yes
USE	Speech, singing	Speech, singing



MODEL	MC 4064	MC 5054
TYPE	Electret	Electret
POLAR PATTERN	Cardioid	Cardioid
FREQUENCY RESPONSE	50 ÷ 18.000 Hz	50 ÷ 14.000 Hz
SENSITIVITY (0 dB=1V/ μ bar, 1kHz)	- 58 dB	- 68 dB
PHANTOM PWR. SUPPLY	12 ÷ 52 V	9 ÷ 52 V
CONNECTOR	XLR 3 (M)	XLR 3 (M)
ON/OFF SWITCH	Yes	No
USE	Speech, conference	Speech, announcements



MODEL	BM 3001	BM 3003	BM 3022	BM 3014
TYPE	Electret	Electret	Electret	Dynamic
POLAR PATTERN	Cardioid	Cardioid	Cardioid	Cardioid
FREQUENCY RESPONSE	50 ÷ 18000 Hz	50 ÷ 18000 Hz	100 ÷ 12000 Hz	100 ÷ 12000 Hz
SENSITIVITY (0 dB=1V/μbar, 1kHz)	- 65 dB	- 65 dB	- 82 dB	- 80 dB
POWER SUPPLY	18 ÷ 48 V PHANTOM	115 - 230 V ac / 24 V dc	115 - 230 V ac / 24 V dc	-
CONNECTORS	RJ 45	RJ 45	RJ 45	3 pole XLR (M)
ON/OFF SWITCH	Yes	Yes	Yes	Yes
USE	Announcements	Announcements	Announcements	Announcements



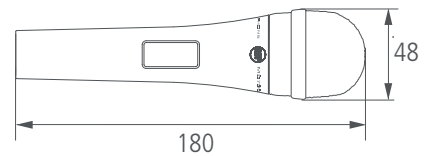
MODEL	MC 5200	MD 6000X
TYPE	UNI-DIRECTIONAL, BACK ELECTRET CONDENSER	Dynamic
POLAR PATTERN	Uni-directional	Cardioid
FREQUENCY RESPONSE	50 ÷ 18000 Hz	300 ÷ 3000 Hz
SENSITIVITY (0 dB=1V/μbar, 1kHz)	- 58dB ± 3dB (0 dB=1V/μbar, 1kHz)	- 70 dB
PHANTOM PWR. SUPPLY	12 ÷ 48 V	-
CONNECTOR	5 poles XLR (m)	3 pole XLR (M)
ON/OFF SWITCH	Yes	Yes
USE	Speech (table top)	Speech, emergency

MD 7600 DYNAMIC MICROPHONE

p/n 141.15.014



290 g
↕ mm



- Typical use: speech, singing
- Supercardioid dynamic microphone
- Anti-pop filter
- ON/OFF switch with lock
- Minimum handling noise
- 5 metre balanced and screened cable with 3 pole XLR connectors included
- Mic. holder for stands and soft bag included

SPECIFICATIONS

MD 7600

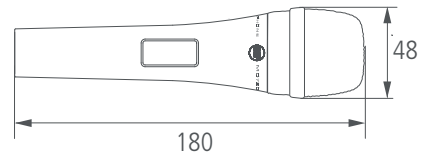
TYPE	DYNAMIC, SUPERCARDIOID
IMPEDANCE	500 Ω \pm 30% (1 kHz)
SENSITIVITY	- 75 dB \pm 3 dB (0 dB=1V/ μ bar, 1kHz)
FREQUENCY RESPONSE	60 \div 16000 Hz
CONNECTORS	3 pole XLR (m)

MD 7800 PROFESSIONAL DYNAMIC MICROPHONE

p/n 141.15.013



305 g
↕ mm



- Typical use: speech, singing
- Professional supercardioid dynamic microphone
- Anti-pop filter
- ON/OFF switch with lock
- Minimum handling noise
- 5 metre balanced and screened cable with 3 pole XLR connectors included
- Mic. holder for stands and soft bag included

SPECIFICATIONS

MD 7800

TYPE	DYNAMIC, SUPERCARDIOID
IMPEDANCE	600 Ω \pm 30% (1 kHz)
SENSITIVITY	- 70 dB \pm 3 dB (0 dB=1V/ μ bar, 1kHz)
FREQUENCY RESPONSE	60 \div 20000 Hz
CONNECTORS	3 pole XLR (m)

MD 6000X HAND MICROPHONE

p/n 141.15.021

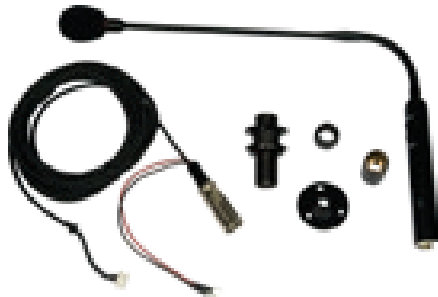
Unbalanced unidirectional handheld microphone optimised for voice reproduction. On/off pushbutton incorporated in the shockproof plastic body. Colour: black



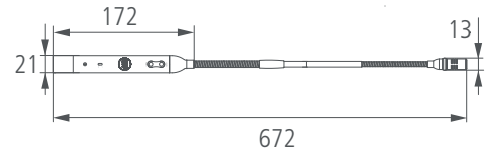
MC 4064

p/n 141.15.025

GOOSENECK MICROPHONE
(DESK-TOP / ON FLOOR STAND)



200 g
↕ mm



- Double joint gooseneck, 672 mm long
- Installation on desks (with or without hole), lecterns, mic. floor stands
- It has two switches (PUSH, LOCK), a red ring lamp that is lit when the microphone is activated, a high-pass filter with a switch to cut frequencies below 100 Hz.
- Phantom power supply (12 ÷ 52 V)
- 3 m screened and balanced cable with XLR connectors for linking to a mixer / amplifier, with 2 additional wires for command
- Polyurethane foam wind screen

SPECIFICATIONS

MC 4064

TYPE	ELECTRET, CARDIOID
IMPEDANCE	600 Ω BALANCED
FREQUENCY RESPONSE	50 ÷ 18000 Hz
SENSITIVITY	- 58 dB ± 3 dB (0 dB=1V/μbar, 1kHz)
CONNECTOR	3 pole XLR (m)

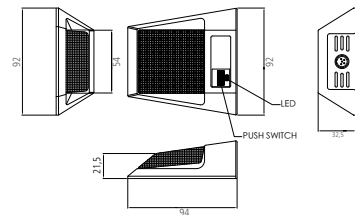
MC 5002

p/n 141.15.026

DESK-TOP MICROPHONE



130 g
↕ mm



- Metal body and mesh
- Red LED lit when the microphone is ON
- Toggle switch for BOOST, FLAT and LOW CUT
- Phantom power supply (12 ÷ 48 V dc)
- 5 poles XLR connector
- Dimensions: 94 x 92 x 34mm
- Colour: RAL 9003 white (MT 3200)

SPECIFICATIONS

MC 5200

TYPE	UNI-DIRECTIONAL, BACK ELECTRET CONDENSER
IMPEDANCE	3000hm ± 30% (at 1kHz)
FREQUENCY RESPONSE	50 ÷ 18000 Hz
SENSITIVITY	- 58dB ± 3dB (0 dB=1V/μbar, 1kHz)
CONNECTORS	5 poles XLR (m)

MC 5054

p/n 141.15.024

FLEXIBLE UNIVERSAL MICROPHONE

Flexible microphone, 445 mm length. Installation on microphone plug with XLR connector. Male 3 pin XLR output connector. Phantom power 9 V to 52 V. Polyurethane anti wind foam. Electret, Cardioid. Impedance: 200 Ω ± 30% (at 1.000 Hz). Frequency response: 50 ÷ 18.000 Hz. Sensitivity: -65 dB ± 3 dB (0 dB = 1 V/μbar 1.000 Hz) Dimensions: diameter 19x540 mm.



TX 2006

p/n 142.50.007

UHF DIVERSITY SYSTEM - HAND HELD TX



PX 2106

p/n 142.50.009

UHF DIVERSITY SYSTEM - POCKET TX



Each receiver has 2 antennas for smart switching diversity control (the higher level radio signal is automatically selected), greater reliability and coverage, reduced risks of breakdowns and interferences. 16 different frequencies / channels are available. It is possible to use up to 6 channels simultaneously (when having 6 wireless microphone kits).

Channels can be manually selected on all transmitters and receivers.

SPECIFICATION

TX 2006 - PX 2106

CHANNEL	SINGLE
TYPE	(PLL) UHF, 'DIVERSITY' RECEIVER
FREQUENCY BAND	UHF, 638 ÷ 662 MHz
FREQUENCY RESPONSE	50 Hz ÷ 50 kHz (± 3 dB)
FREQUENCY STABILITY	± 0.005 %
MODULATION MODE	FM (F3E)
DYNAMIC	> 100 DB
RX 2006 RECEIVER	
T.H.D.	< 1 %
AUDIO OUTPUT	280 MV @ ± 15 KHZ DEVIATION
S/N RATIO	> 90 DB
RF SENSITIVITY	- 100 DBM / 30 DB SINAD
POWER SUPPLY	THROUGH EXTERNAL 12 V DC (0.5A) ADAPTER
DIMENSIONS	130 MM (W), 44 MM (H), 201 MM (D)
NET WEIGH	0.37 KG
TRANSMITTER / HANDHELD MICROPHONE TX 2000 - POCKET PX 2100	
RF OUTPUT POWER	10 MW
TONE FREQUENCY	32,768 kHz
CURRENT ABSORPTION	< 150 MA
MAX. DEVIATION	± 35 kHz
PILE	2 x TIPO 'AA' (1,5 V; NON RECHARGEABLE)
TX 2000 TYPE	DYNAMIC MICROPHONE
PX 2100 TYPE	'LAVALIER' (TIE-CLIP) ELECTRET MICROPHONE
DIMENSIONS TX 2000	(L) 220 mm
DIMENSIONS PX 2100	65 mm (L), 111 mm (H), 31 mm (P)
NET WEIGH	(TX 2000) 0,16 Kg - (PX2100) 0,11 Kg

HE 2006

p/n 141.15.023

'HEADSET' MICROPHONE

'Headset' type, reliable and light.

Cardioid electret capsule.

It ensures an excellent isolation from environmental noise.

Typical use: dancers, singers, djs, aerobic instructors, presenters, actors, etc.

The optimal use of the microphone requires a distance between the capsule and mouth of about 25 mm.



TX 4016

p/n 142.50.008

UHF TRUE DIVERSITY SYSTEM - HAND HELD TX



PX 4116

p/n 142.50.010

UHF TRUE DIVERSITY SYSTEM - POCKET TX



Each receiver has 2 antennas for smart switching diversity control (the higher level radio signal is automatically selected), greater reliability and coverage, reduced risks of breakdowns and interferences. The operating frequency of the transmitter can be automatically searched thanks to the receiver auto-scan function. Of course, it is possible to match the transmitter channel to the receiver one manually. 120 channels are available (10 groups, each with 12 different frequencies). It is possible to use up to 16 channels simultaneously (when having 16 wireless microphone kits).

SPECIFICATION

TX 4016 - PX 4116

CHANNEL	SINGLE (OUT OF 144 FREQUENCIES)
TYPE	(PLL) UHF, 'DIVERSITY' RECEIVER
FREQUENCY BAND	UHF, 638 MHZ ÷ 662 MHZ
FREQUENCY RESPONSE	50 HZ ÷ 50 KHZ (± 3 DB)
FREQUENCY STABILITY	± 0.005 % (-10 ÷ 50°C)
T.H.D.	< 0.8% (1 KHZ)
MODULATION MODE	FM (F3E)
DYNAMIC	> 100 DB
RX 4016 RECEIVER	
BALANCED AUDIO OUTPUT	1 V, ± 35 KHZ DEVIATION
UNBALANCED AUDIO OUTPUT	750 MV, ± 35 KHZ DEVIATION
S/N RATIO	> 90 DB
RF SENSITIVITY	- 100 DBM / 30 DB SINAD
POWER SUPPLY	THROUGH EXTERNAL 15 V DC (0.5A) ADAPTER
DIMENSIONS	210 MM (W), 44 MM (H), 155 MM (D); (8.2" X 1.7" X 6.1")
NET WEIGHT	0.99 KG
TRANSMITTER / HANDHELD MICROPHONE TX 4000 - BODY PACK TRANSMITTER PX 4100	
RF OUTPUT POWER	1 - 3 - 10 mW
FREQUENCY RESPONSE	(TX 4000) 90 Hz ÷ 12 kHz (± 3 DB) (PX 4100) 50 Hz ÷ 15 kHz (± 3 dB)
TX 4000 TYPE	DYNAMIC, CARDIOID
PX 4100 TYPE	ELECTRET MICROPHONE
TONE FREQUENCY	30-33 kHz
MAX. DEVIATION	± 35 kHz
BATTERIES	2 x TIPO 'AA' (1,5 V; NON RECHARGEABLE)
DIMENSIONS TX 4000	277 mm (L), Ø 36.5 m
DIMENSIONS TX PX 4100	97 mm (L), 68 mm (H), 22 mm (P)
NET WEIGHT	(TX 4000) 0,25 Kg - (PX4100) 0,01 Kg

HE 2006

p/n 141.15.023

'HEADSET' MICROPHONE

'Headset' type, reliable and light.
Cardioid electret capsule.

It ensures an excellent isolation from environmental noise.

Typical use: dancers, singers, djs, aerobic instructors, presenters, actors, etc.

The optimal use of the microphone requires a distance between the capsule and mouth of about 25 mm.



BM 3001

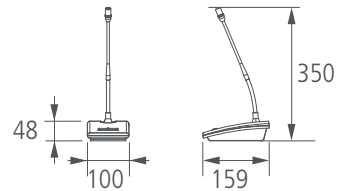
PAGING MICROPHONE

p/n 143.22.008



600 g

↕ mm



- Plastic body with 300 mm gooseneck
- PTT button with LED
- Power supplied by 'Phantom' (18 ÷ 48 V dc)
- Ready for direct connection to amplifiers ES 3080, ES 3160-II, ES 3323-II, AM 2160, AM 2320, AM 2080, UP 2161, UP 2321, UP 2081.
- Chime activation on ES 3080, ES 3160-II, ES 3323-II, AM 2160, AM 2320, AM 2080
- Polyurethane foam wind screen
- 5 m connecting cable (with RJ 45 plugs) included

SPECIFICATIONS

TYPE	ELECTRET, CARDIOID
IMPEDANCE	470 Ω BALANCED
FREQUENCY RESPONSE	50 ÷ 18000 Hz
SENSITIVITY	- 65 dB ± 3 dB (0 dB=1V/μbar, 1kHz)
CONNECTORS	8 pole RJ 45

BM 3001

ELECTRET, CARDIOID

470 Ω BALANCED

50 ÷ 18000 Hz

- 65 dB ± 3 dB (0 dB=1V/μbar, 1kHz)

8 pole RJ 45

BM 3014

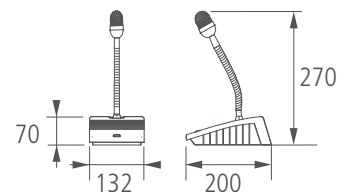
PAGING MICROPHONE

p/n 143.20.135



1'600 g

↕ mm



- Plastic body with 320 mm gooseneck
- Pushbutton for momentary microphone activation
- 5 m screened and balanced cable with XLR connectors for linking to a mixer / amplifier, with 2 additional wires for command

SPECIFICATIONS

TYPE	DYNAMIC, CARDIOID
IMPEDANCE	500 Ω BALANCED
FREQUENCY RESPONSE	100 ÷ 12000 Hz
SENSITIVITY	- 71 dB ± 3 dB (0 dB=1V/μbar, 1kHz)
CONNECTORS	3 pole XLR

BM 3014

DYNAMIC, CARDIOID

500 Ω BALANCED

100 ÷ 12000 Hz

- 71 dB ± 3 dB (0 dB=1V/μbar, 1kHz)

3 pole XLR

BM 3003

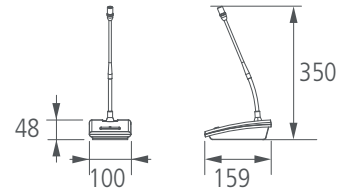
p/n 143.22.012

3 ZONES PAGING MICROPHONE



700 g

mm



- Plastic body with 300 mm gooseneck
- PTT button with LED, Zone buttons with LED
- Power supplied by 'Phantom' (18 ÷ 48 V dc) for the BM 3003 directly connect to the ES 3323
- It can be directly connected to ES 3323 amplifiers
- External power supply AC AD2405 to be used on all BM 3003 connect to other BM 3003
- Lines of max. 12 BM 3003 paging microphones
- Polyurethane foam wind screen
- 5 m connecting cable (with RJ 45 plugs) included

SPECIFICATIONS

TYPE	BM 3003 ELECTRET, CARDIOID
IMPEDANCE	470 Ω BALANCED
FREQUENCY RESPONSE	50 ÷ 18000 Hz
SENSITIVITY	- 65 dB ± 3 dB (0 dB=1V/μbar, 1kHz)
CONNECTORS	2 x 8 pole RJ 45

BM 3022

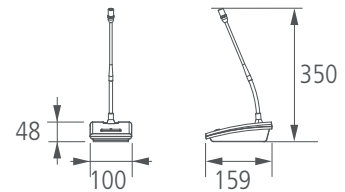
p/n 143.22.013

PRE-AMPLIFIED DESK TOP MICROPHONE



600 g

mm



- Gooseneck microphone with hi-quality unidirectional electret capsule
- Direct connection to power amplifiers input through CAT5 cable
- Adjustable line output with RJ45 connector
- Switchable automatic gain control (AGC)
- Up to 30 BM 3022 paging microphones can be linked in a 'daisy-chain'
- Selectable mixing, interlocking or priority mode among devices
- When activating a microphone, the announcement can be preceded by a chime.

SPECIFICATIONS

TYPE	BM 3022 ELECTRET
IMPEDANCE	130 Ω BALANCED
FREQUENCY RESPONSE	200 ÷ 7000 Hz
SENSITIVITY	- 65 dB ± 3 dB (0 dB=1V/μbar, 1kHz)
CONNECTORS	2 x RJ 45 (IN - OUT)

AC MIC DK

TABLE BASE FOR
MICROPHONE MC 4064

p/n 133.60.247



- Standard connection 5/8
- Diameter: 160 mm
- Weight: 1 Kg

A 504-N

MIC SUPPORT

p/n 143.80.014



Microphone support (5/8" thread).
Suitable for use with the MD 7600, MD 7800 microphones on AC S64FL,
AC S62FL and AC S50DK supports.

AC 503FS

MC 5054 ADAPTOR FOR FLOOR
MICROPHONE STAND

p/n 143.80.033



Universal extended metal stand. Female 3 pins XLR microphone connector.
Installation with screws on a table, a bookstand or a microphone stand.
Button for stable and unstable microphone insertion.
Screw thread 5/8" x 27 mm.
1,5 m cable (with 3 pin, male XLR) for amplifier connection
Dimensions: diameter 20,5 x 199,3 mm.

AC 502LC

MC 5054 ADAPTOR FOR
PLATFORMS

p/n 143.80.034

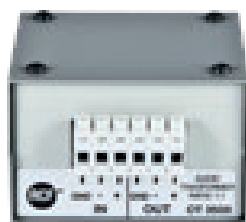


Universal table metal support. Female 3 pin XLR connector.
Installable on a bookstand with or without a cable hole.
Welding terminal for cable. Dimensions: diameter 45x63 mm.

OT 3500

TRANSFORMER FOR
DISTRIBUTED SYSTEMS

p/n 171.20.056



Mumental insulation transformer with removeable screw terminals. Can work
with 0dB signals.

IT 4000

INPUT TRANSFORMER 100V TO 0DB

p/n 133.60.341



Allows the connection of a 100V (or 70V) passive speakers line directly to the
audio input (0 dBu) of an active speaker. Fixing of input and output cables on
screw terminals. Metal box, colour black.

AC 501DK

DESKTOP MIC BASE XLR IN/OUT

p/n 143.80.035

AC 501DK is a desktop microphone base with input and output XLR
connectors.

It offers three different functional modalities:
LOCK (bistable on/off button);
TALK (microphone open with button pressed only);
MUTE (mute active with button pressed).



A 507

MIC. SUPPORT
p/n 143.10.008



Universal quick-release clamp holder for holding cylindrical, conical, and polyhedron shaped microphones.
Clamp opening: from 15 to 38 mm. Suitable for use with TX 1000 / TX 1600 / TX 516 wireless mic. on AC S64FL, AC S62FL and AC S50DK supports.

CA 5XX

MIC. CABLE
p/n 143.40.017



5 m microphone cable with XLR connectors.

AC S50DK

DESKTOP STAND
p/n 143.80.011



Desk top microphone stand with die-cast base, suitable for 5/8" or 3/8" thread. Tilting telescopic rod, adjustable from 38 cm to 58 cm. Weight: 2 Kg. Height: min/max 38cm/58cm. Base dimensions 16x18cm

AC S76FL

FLOOR STAND
p/n 143.80.027



Floor microphone stand with folding base, suitable for 5/8" thread. Joints and legs in die-cast aluminium. Steel telescopic rod, adjustable from 96 cm to 156 cm. Tilting steel boom-arm, adjustable from 46 cm to 86 cm. Damping base with 58 cm limited opening diameter. Weight: 3.2 Kg. Length once folded: 102 cm

AC XLR-3M3F

CONNECTORS
p/n 133.60.102



XLR Connectors KIT:
- 3 XLR Female connector with nickel body and silver contacts
- 3 XLR Male connector with nickel body and silver contacts

AC AD 2405

24 V ADAPTOR
p/n 143.80.022



Power adaptor for 24 V DC paging microphones
- input 230V AC
- output 24 V DC - 500 mA

AR 1620

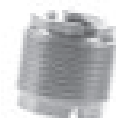
RACK MOUNTING ACCESSORY
p/n 173.60.031



1U 19" rack kit suitable for 1 or 2 receivers (models: RX 1000 or RX 1600).

A 53

ADAPTER FROM 3/8 TO 5/8
p/n 143.80.029



S50DK AC microphone holder adapter
- Kit of 10 pieces

MP 300

OPERATOR/USER INTERCOM SYSTEM KIT

p/n 121.70.094

- MP 300 system allows conversations between an operator and users /clients when these are separated by a safety glass that reduces the sound transmission
- Operates in full-duplex mode, automatic or mixed-switching depending on the ambient noise in the room / hall served.
- On request, each single component can be purchased separately

MODEL	P/N	DESCRIPTION	QUANTITY
MP 341	124.01.005	Control unit / amplifier	1
MP 321	124.01.008	Operator microphone console with activation keys	1
MP 302	124.01.007	User microphone	1
MP 301	124.01.006	Loudspeaker	4



SPECIFICATIONS

MICROPHONES	MP 300 ELECTRET, UNIDIRECTIONAL
AMPLIFIER POWER	2 W (per each line)
ADDITIONAL LOUDSPEAKER OUTPUT	1 W - 8 Ω
POWER SUPPLY (AC)	230 / 115 V (50 / 60 Hz)
POWER SUPPLY (DC)	12 V

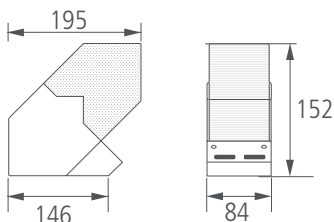
MP 321

OPERATOR MICROPHONE

p/n 124.01.008

800 g

↕ mm



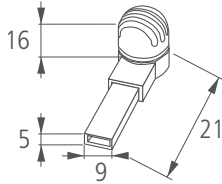
- Electret microphone with unidirectional polar pattern, housed into an anthracite grey die-cast aluminium alloy and protected by a painted stainless steel grille
- Equipped with 2 push-buttons to activate the operator-user line and the user-operator line respectively
- A LED indicates which line is activated
- It can be remote controlled (e.g. through a pedal switch)

MP 302

USER MICROPHONE

p/n 124.01.007

3,5 g
mm



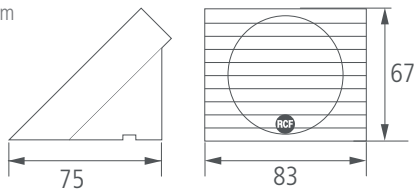
- Electret microphone having high sensitivity and an unidirectional polar pattern, suitable for clear voice reproduction even in very noisy rooms / halls
- Its compact white plastic enclosure has a very sleek contemporary design
- MP 302 has a slot (close to the audio cable output) for the insertion of a standard wiring duct
- It can be easily attached on safety glasses through bi-adhesive tape
- 5 m balanced and screened cable for connection to the MP 341 control unit / amplifier

MP 301

LOUDSPEAKERS

p/n 124.01.006

120 g
mm



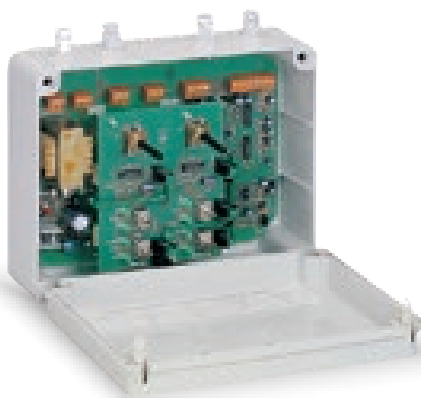
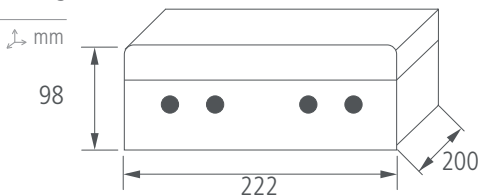
- MP 301 loudspeakers shall be installed near the microphones of the operator and users
- White plastic body
- 70 mm loudspeaker suitable for voice reproduction
- Loudspeakers can be fixed by using biadhesive tape (included)
- 5m loudspeaker cables for connection to the MP 341 control unit / amplifier

MP 341

CONTROL UNIT / AMPLIFIER

p/n 12401005

1'400 g
mm



- It is the system main unit that manages audio signals coming from microphones.
- 4 switches inside (with LEDs) allow to select one of the 4 operating modes, according to the noise level at the operator's microphone and at the users' microphone.
- A switch for each line makes it possible to select either the 'direct' function (the line is always activated) or the 'switched' mode (the line is momentary activated when speaking). If both lines are set to the 'switched' mode, only one can be activated at a time.
- The other 2 switches enable the 'forced volume' function of each line, useful whenever it is necessary to increase (+ 10 dB) the audio level
- It is possible to adjust the listening volume of each position independently, as well as the trigger threshold level of each microphone (factory preset)
- Its plastic enclosure can be wall mounted

AUDIO SOURCES

CD players, Radio receivers, message players for every hi-fidelity listening need.



RD 2016

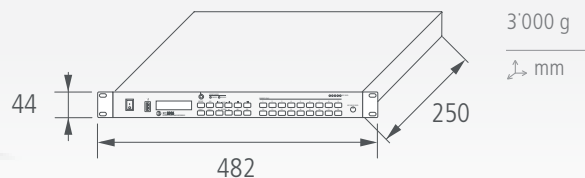
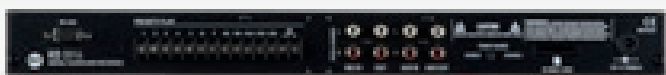
| p/n 171.70.168

MP3 AUDIO FILES DIGITAL
RECORDER/PLAYER



- MP3 stereo player/recorder
- Supports SD cards and USB flash drives
- 32 GB Maximum supported memory
- Can play/record one file at a time
- A sequence of 64 file can be programmed
- Fixed MP3 recording format: 192 kbps
- 1 AUX INPUT with parallel AUX OUTPUT
- Disabled front buttons
- IR remote control included
- SD Card not included

REAR VIEW



SPECIFICATIONS

SPECIFICATIONS	RD 2016
AUDIO OUTPUT LEVEL	+2 dBu ± 2 dB
DISTORTION (THD+N)	< 0,2 %
SIGNAL/NOISE RATIO	> 70 dB
CHANNEL SEPARATION	> 60 dB
NUMBER OF MESSAGES	16 (7 remotely activable)
MESSAGES LENGTH	Depending on the device capability
POWER SUPPLY	12 V c.c., 0,5 A (100 ÷ 240 V c.a. 50/60 Hz, 0,2 A power supply included)
OUTPUT CONNECTORS	RCA (L&R)



MS 1033

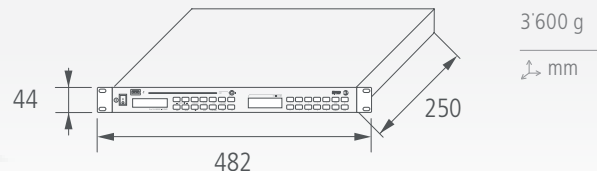
p/n 171.70.108

CD-USB MP3 PLAYER WITH FM RADIO TUNER



- Double sound source with two independent sections and outputs (Tuner - CD/Mp3)
- CD player to reproduce audio tracks and MP3 files from a compact disc (CD, CD-R, CD-R/W) or from the USB drive ("Flash" memory-stick with only MP3 files) The USB port is available on both front and back panels to provide maximum flexibility
- The SD card port is available on front panels
- LCD backlit display gives information on the CD and MP3 files
- I/R remote control for CD and Tuner included
- FM radio tuner (87.5 - 108 MHz) with possibility to memorize your 30 favourite radio stations
- Stereo / Mono selector for applications where stereo signals are not needed
- LCD backlit display shows the frequency and stations that are in the memory

REAR VIEW



SPECIFICATIONS

AUDIO OUTPUT LEVEL
 FREQUENCY RESPONSE
 DISTORTION (THD+N)
 FREQUENCY RANGE
 SIGNAL TO NOISE RATIO
 CHANNEL SPLIT
 SENSITIVITY
 SUPPLY VOLTAGE
 OUTPUT CONNECTORS

MS 1033

+4 dBu ± 2 dBu (1.2 V ± 0.2 V)
 20 ÷ 20.000 Hz (CD); 100 ÷ 12.000 Hz (RADIO)
 < 0.1% (CD); < 0.8% (RADIO)
 87.5 ÷ 108 MHz (FM)
 > 70 dB (CD); > 60 dB (RADIO)
 ≥ 60 dB (CD); ≥ 30 dB (RADIO)
 ≤ 10 V
 220 ÷ 240 V / 110 ÷ 120 V (50 / 60 Hz)
 RCA (L&R RADIO); RCA (L&R CD USB/MP3); RCA (L&R MIXED)

AMPLIFIERS AND PREAMPLIFIERS

For constant voltage systems or professional audio applications.



MODEL	ES 3323-II	ES 3160-II	ES 3080
OUTPUT RMS POWER	320 W	160 W	80 W
OUTPUT	4 Ω (2 W max), 100 V, 70 V	4 Ω, 100 V, 70 V	4 Ω, 100 V, 70 V
FREQUENCY RESPONSE	50 ÷ 18.000 Hz	50 ÷ 18.000 Hz	50 ÷ 18.000 Hz
DISTORTION @ 1 kHz	< 0.3%	< 0.3%	< 0.3%
SIGNAL TO NOISE RATIO	> 65 dB	> 65 dB	> 60 dB
INPUT SENSITIVITY	(MIC) -60 dBu; (AUX) -80 dBu	(MIC) -60 dBu; (AUX) -80 dBu	(MIC) -62 dBu; (AUX) -18 ÷ +20 dBu
INPUT IMPEDANCE	(MIC) 10 KΩ; (AUX) 20 KΩ	(MIC) 10 KΩ; (AUX) 20 KΩ	(MIC) 10 KΩ; (AUX) 20 KΩ
INPUT CONNECTORS	1 x XLR, 2 x RJ45, 4 Term., 1 RCA	1 x XLR, 2 x RJ45, 4 Term., 1 RCA	1 x XLR, 1 x RJ45, 2 Term., 1 RCA
OUTPUT CONNECTORS	4 x RCA, Screw terminal	4 x RCA, Screw terminal	2 x RCA (mono)



MODEL	AM 2080	AM 2160 - AM 2320	UP 2161 / UP 2321
OUTPUT RMS POWER	80 W	160 W / 320 W	160 W / 320 W
OUTPUT	4 Ω, 100 V, 70 V	4 Ω, 100 V, 70 V	4 Ω, 100 V, 70 V
FREQUENCY RESPONSE	50 ÷ 18.000 Hz	50 ÷ 18.000 Hz	50 ÷ 18.000 Hz
DISTORTION @ 1 kHz	< 0.3%	< 0.3%	< 0.3%
SIGNAL TO NOISE RATIO	> 60 dB	> 60 dB	> 80 dB
INPUT SENSITIVITY	(MIC) -62 dBu; (LINE) 0 dBu	(MIC) -58 dBu; (LINE) 0 dBu	(MIC) -58 dBu; (LINE) 0 dBu
INPUT IMPEDANCE	(MIC) 10 KΩ; (AUX) 20 KΩ	(MIC) 10 KΩ; (AUX) 20 KΩ	(MIC) 10 KΩ; (AUX) 20 KΩ
INPUT CONNECTORS	1 x XLR, 2 x RJ45, 4 Term.	1 x XLR, 2 x RJ45, 4 Term., 4 RCA	1 x XLR, 1 x RJ45, 1 Screw terminal
OUTPUT CONNECTORS	4 x RCA, Screw terminal	4 x RCA, Screw terminal	1 x RCA, Screw terminal



MODEL	UP 2082 / UP 2162	AM 1125 / AM 1064	UP 1121 / UP 4240
OUTPUT RMS POWER	2 x 80W / 2 x 160 W	120 W / 60 W	120 W/240W
OUTPUT	4 Ω, 100 V, 70 V	4 Ω, 100 V, 70 V	4 Ω, 100 V, 70 V
FREQUENCY RESPONSE	50 ÷ 18.000 Hz	50 ÷ 15.000 Hz	60 ÷ 15.000 Hz
DISTORTION @ 1 kHz	< 0.3%	< 1.5%	< 1,5%
SIGNAL TO NOISE RATIO	> 80 dB	> 85 dB	> 80
INPUT SENSITIVITY	(MIC) -58 dBu; (LINE) 0 dBu	(MIC) -54 dBu; (LINE) -12 dBu	1 V (+ 2 dBu)
INPUT IMPEDANCE	(MIC) 10 KΩ; (AUX) 20 KΩ	(MIC) 600 Ω; (AUX) 10 KΩ	10 kΩ (bilanciato)
INPUT CONNECTORS	1 Screw terminal	MIC/LINE with XLR connector, 'Phantom' power supply, priority by contact or 'VOX'	Balanced 'line' level AUDIO INPUT (terminal strip)
OUTPUT CONNECTORS	1 x RCA, Screw terminal	Screw terminal	Screw terminal



MODEL	UP 8501	UP 8502	UP 8504
OUTPUT RMS POWER	1 X 500 W	2 X 250 W	4 X 125 W
OUTPUT	100 V, 70 V	100 V, 70 V	100 V, 70 V
FREQUENCY RESPONSE	20 Hz ÷ 20 kHz	20 Hz ÷ 20 kHz	20 Hz ÷ 20 kHz
DISTORTION @ 1 kHz	< 0.3%	< 0.3%	< 0.3%
SIGNAL TO NOISE RATIO	> 86 dB	> 86 dB	> 86
INPUT SENSITIVITY	0 DBU (775 mV, MAX. 7 V)	0 DBU (775 mV, MAX. 7 V)	0 DBU (775 mV, MAX. 7 V)
INPUT IMPEDANCE	10 KΩ	10 KΩ	10 KΩ
INPUT CONNECTORS	Screw terminal	Screw terminal	Screw terminal
OUTPUT CONNECTORS	Screw terminal	Screw terminal	Screw terminal

ES 3323 II

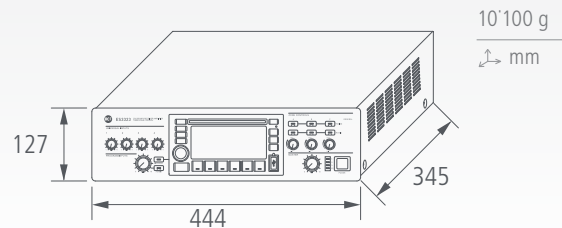
p/n 121.35.105

320 W, 3-ZONE MIXER AMPLIFIER,
CD/USB/BLUETOOTH MP3 PLAYER



- CD-USB/MP3 Player / FM tuner / Mixer Amplifier
- Bluetooth connection with external devices
- IR Remote control for CD - USB/MP3 player & tuner functions
- Full digital technology amplifier 320 W RMS, 100V-70V
- Low impedance (min. 4 Ω) 2 W output for a monitor loudspeaker is available
- 4 universal inputs with phantom facility, Presence Control and per-channel High-Pass filters
- RJ45 connectors on input 2 and 3 for connection to BM3001 and BM 3003 microphone
- Screw terminal connections, additional XLR and RJ45 input connections available
- Configurable Priority settings, VOX facility on input 1
- Selectable aux input for music source with volume and tone controls
- USB port on front panel allows reproduction of MP3 files from a memory stick
- Music On Hold and PRE outputs
- The 3 PAGING buttons to select zones to be paged by either the channel 1 or 4
- GENERAL call button is available
- The 3 MUSIC buttons turn the music on in the respective zones
- Digital Chime and Siren built-in generator, activation through dry contact
- Status / Priority / Audio Level LED indications
- Link to a external amplifier (i.e. RCF UP 2321) to keep the music in the zones that are not paged

REAR VIEW



SPECIFICATIONS

SPECIFICATIONS	ES 3323 II
OUTPUT POWER	320 W
FREQUENCY RESPONSE	50 - 18.000 Hz (± 3 dB)
DISTORTION (THD+N)	< 0,3% @ 1 kHz
SPEAKER OUTPUTS	100 V, 70 V, 4 Ω (MONITOR MAX 2 W)
AUXILIARY OUTPUTS	600 Ω, -1 dBu (690 mV)
SIGNAL TO NOISE RATIO	> 65 dB (INPUTS 1-4); > 75 dB (AUX IN); > 85 dB (MAIN IN)
INPUT SENSITIVITY	(MIC) -58 dBu (1 mV); (MIC PHANTOM) -28 dBu (30 mV); (AUX) -11 ÷ +10 dBu (0.2 ÷ 2.5 V)
INPUT IMPEDANCE	(MIC) 10 kΩ; (AUX) 20 kΩ (MIC) 10 kΩ; (MIC PHANTOM) 6.5 kΩ; (LINE): 10 kΩ; (AUX): 20 kΩ
SUPPLY VOLTAGE	220 ÷ 240 V / 110 ÷ 120 V (50 / 60 Hz) INTERNAL SETTING
POWER CONSUMPTION	600 W
INPUT CONNECTORS	1 x XLR, 2 x RJ 45, 4 x TERMINAL, 2 x RCA stereo
OUTPUT CONNECTORS	4 x RCA (MUSIC ON HOLD, PRE-OUT, INTERNAL PROGRAM), SCREW TERMINALS FOR CONSTANT VOLTAGE LINES

BM 3003

p/n 143.22.012

3 ZONES PAGING MICROPHONE

The paging microphone allows to make selective calls to 3 zones and is the ideal complement of the ES 3323 mixer amplifier (through CAT 5 cable and RJ 45 connector)

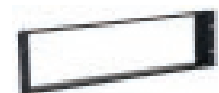


AR 3000

p/n 133.60.101

RACK SUPPORT

Rack mounting support, 3U.



ES 3160 II

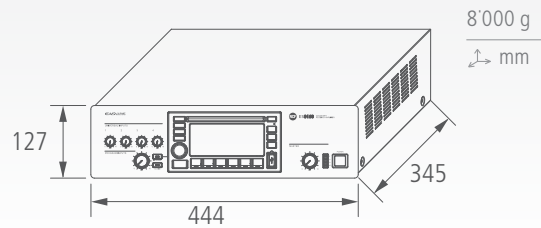
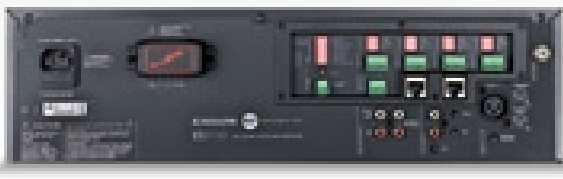
p/n 121.35.104

160W AMPLIFIER, CD-USB-BLUETOOTH/MP3



- Mixer amplifier, CD-USB/MP3 player – FM tuner
- Bluetooth connection with external devices
- IR remote control for CD - USB/MP3 player and tuner functions
- Full digital technology 160 W RMS amplifier, 70 – 100 V / 4 Ω outputs
- 4 universal inputs for removable screw-terminals and with phantom power supply, high-pass filters facility and a common presence control
- RJ45 ports on inputs 2 and 3 for connections of BM 3001 paging microphones
- Configurable priority settings, VOX facility on input 1
- Aux input with volume and tone controls for an external music source
- USB port on front panel allows reproduction of MP3 files from a flash-drive
- Music On Hold and PRE outputs
- Chime and siren internal generator, activation through dry contacts
- Status / Priority / Audio Level LED indications

REAR VIEW



SPECIFICATIONS

SPECIFICATIONS	ES 3160 II
OUTPUT POWER	160 W
FREQUENCY RESPONSE	50 ÷ 18.000 Hz (± 3 dB)
DISTORTION (THD+N)	< 0.3% @ 1 kHz
SPEAKER OUTPUTS	100 V, 70 V, 4 Ω
AUXILIARY OUTPUTS	600 Ω, -1 dBu (690 mV)
SIGNAL TO NOISE RATIO	> 65 dB (INGRESSO 1-4); > 75 dB (AUX IN); > 85 dB (MAIN IN)
INPUT SENSITIVITY	(MIC) -58 dBu (1 mV); (MIC PHANTOM) -28 dBu (30 mV); (AUX) -11 ÷ +10 dBu (0.2 ÷ 2.5 V)
INPUT IMPEDANCE	(MIC) 10 kΩ; (AUX) 20 kΩ (MIC) 10 kΩ; (MIC PHANTOM) 6.5 kΩ; (LINE): 10 kΩ; (AUX): 20 kΩ
SUPPLY VOLTAGE	220 ÷ 240 V / 110 ÷ 120 V (50 / 60 Hz) INTERNAL SETTING
POWER CONSUMPTION	350 W
INPUT CONNECTORS	1 x XLR, 2 x RJ 45, 4 x TERMINAL, 2 x RCA stereo
OUTPUT CONNECTORS	4 x RCA (MUSIC ON HOLD, PRE-OUT, INTERNAL PROGRAM), SCREW TERMINALS FOR CONSTANT VOLTAGE LINES

BM 3001

MICROPHONE CONSOLE

p/n 143.22.008

Dedicated microphone console with Cat5 connection cable and RJ45 connector.



AR 3000

RACK SUPPORT

p/n 133.60.101

Rack mounting support, 3U.



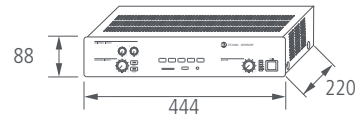
ES 3080

p/n 121.35.107

MIXER-AMPLIFIER WITH AUDIO SOURCE



3'800 g
± mm



- Audio source with 80W power amplifier.
- MP3 player controlled from the front panel.
- MP3 inputs: USB flash, SD card, AUX jack 3.5mm.
- Bluetooth connection with external devices
- 2 universal inputs on removable screw-terminals and 1 AUX input.
- Configurable priority settings, VOX facility on input 1
- Auxiliary output MUSIC ON HOLD to send the audio signal to external amplifiers or telephone switchboards.
- PRE OUT connector for additional power amplifiers.
- HI-PASS control (inputs 1 and 2)
- Auxiliary input on RCA connector and front panel are equipped with independent tone controls (bass and treble) and gain.
- Status LEDs on the front panel (ON, PROT) giving a complete feedback on amplifier and power supply status.
- LEDs on the front panel (PRIOR) indicating the priority circuit activity and the audio signal level (SIG/PK).
- Integrated alert sound generator configurable as single or double tone.
- Rack mount kit for 2 units amplifiers included

SPECIFICATIONS

OUTPUT POWER	80 W
FREQUENCY RESPONSE	50 - 18.000 Hz (± 3 dB)
DISTORTION (THD+N)	< 0,3% @ 1 kHz
SPEAKER OUTPUTS	100 V, 70 V, 4 Ω
SIGNAL TO NOISE RATIO	> 60 dB (INPUTS 1-2); > 80 dB (AUX IN)
INPUT SENSITIVITY	(MIC) -62 dBu (1 mV); (MIC PHANTOM) -28 dBu (30 mV); (AUX) -18 ÷ +20 dBu (0.1 ÷ 7 V)
INPUT IMPEDANCE	(MIC) 10 kΩ; (MIC PHANTOM) 10 kΩ; (AUX) 20 kΩ
SUPPLY VOLTAGE	220 ÷ 240 V / 110 ÷ 120 V (50 / 60 Hz) INTERNAL SETTING / 80 W
INPUT CONNECTORS	1 x XLR, 1 x RJ 45 FOR BM 3001, 2 x TERMINAL, 1 x RCA

ES 3080

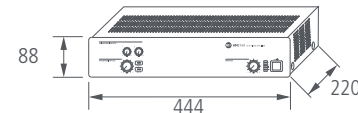
AM 2080

p/n 121.35.062

INTEGRATED AMPLIFIER



3'800 g
± mm



- 80 W mixer-amplifier, with 2 mic-line audio inputs on removable connectors and 2 aux inputs for music sources
- Input 1 also has an XLR XLR socket
- The input 1 has a signal detection circuit ("VOX") providing automatic priority operation
- Inputs 1 and 2 can access the priority through an external command
- The inputs 2 also has an RJ 45 port for quick connection of an RCF BM 3001 paging microphone (through CAT5 cable)
- The 2 mic-line inputs have a high-pass filter that are useful to improve speech intelligibility
- 2 Aux inputs with tone controls, selectable on the front panel
- A "MUSIC ON HOLD" aux output allows to send the music to additional amplifiers, mixers, phone systems
- A "PRE OUT" aux output to send the signal to additional amplifiers
- Digital Chime built-in generator
- The amplifier output is available either for low impedance loudspeakers (min. 4 Ω) or 100 - 70 V constant voltage line (for loudspeakers having 100 - 70 V transformers)
- Front panel LEDs indicate the device state (ON, PROT), priority circuit enabled (PRIOR) and the signal level / peak (SIG/PK)

SPECIFICATIONS

OUTPUT POWER	80 W
FREQUENCY RESPONSE	50 - 18.000 Hz (± 3 dB)
DISTORTION (THD+N)	< 0,3% @ 1 kHz
SPEAKER OUTPUTS	100 V, 70 V, 4 Ω
SIGNAL TO NOISE RATIO	> 60 dB (INPUTS 1-2); > 80 dB (AUX IN)
INPUT SENSITIVITY	(MIC) -62 dBu (1 mV); (MIC PHANTOM) -28 dBu (30 mV); (AUX) -18 ÷ +20 dBu (0.1 ÷ 7 V)
INPUT IMPEDANCE	(MIC) 10 kΩ; (MIC PHANTOM) 10 kΩ; (AUX) 20 kΩ
SUPPLY VOLTAGE	220 ÷ 240 V / 110 ÷ 120 V (50 / 60 Hz) INTERNAL SETTING
INPUT CONNECTORS	1 x XLR, 1 x RJ 45, 2 x TERMINAL, 2 x DOUBLE RCA (AUX)

AM 2080

AM 2160 AM 2320

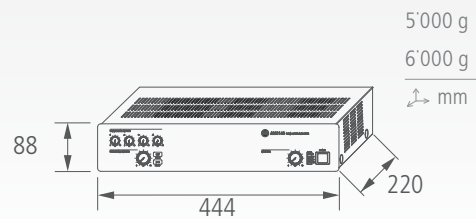
| p/n 121.35.058
| p/n 121.35.059

INTEGRATED AMPLIFIERS



- Full digital technology Mixer Amplifier 160 W RMS
- 100 V - 70 V and 4 Ohm outputs
- 4 universal inputs with phantom facility on screw terminal connections
- Presence Control and per-channel High-Pass filters
- XLR connector on input 1
- RJ45 connectors on input 2 and 3 for connection to BM3001 microphone
- Configurable Priority settings, VOX facility on input 1
- Selectable aux inputs with two keys on the front panel for music source
- Priority activation through dry contact on all 4 inputs
- 2 Aux inputs with tone controls, selectable with two keys on the front panel
- Music On Hold and PRE outputs
- Digital Chime and Siren built-in generator
- 24V/0.5A priority relay output
- Status / Priority / Audio Level LED indications

REAR VIEW



SPECIFICATIONS

AM 2160 - AM 2320

OUTPUT POWER	160 W (AM 2160) - 320 W (AM 2320)
FREQUENCY RESPONSE	50 Hz ÷ 18.000 kHz
DISTORTION (THD+N)	< 0.3% @ 1 kHz
SPEAKER OUTPUTS	100 V, 70 V, 4 Ω
AUXILIARY OUTPUTS	600 Ω, - 1 dBu (690 mV)
SIGNAL TO NOISE RATIO	> 60 dB (INPUTS 1-4); > 80 dB (AUX IN)
INPUT SENSITIVITY	(MIC) -58 dBu (1 mV); (MIC PHANTOM) -21 dBu (70 mV); (LINE) 0 dBu (775 mV); (AUX) -6 ÷ +13 dBu (0.39 ÷ 3.5 V)
INPUT IMPEDANCE	(MIC) 10 kΩ; (MIC PHANTOM) 5 kΩ; (LINE): 10 kΩ; (AUX): 20 kΩ
SUPPLY VOLTAGE	230 V / 115 (50 / 60 Hz) - INTERNAL SETTING
POWER CONSUMPTION	240 W (AM 2160) - 440 W (AM 2320)
INPUT CONNECTORS	1 x XLR, 2 x RJ 45, 4 x SCREW TERMINALS, 2 x DOUBLE RCA (AUX)
OUTPUT CONNECTORS	2 x RCA (MUSIC ON HOLD, PRE-OUT), SCREW TERMINALS FOR SPEAKERS

BM 3001

MICROPHONE CONSOLE

| p/n 143.22.008

Dedicated microphone console with Cat5 connection cable and RJ45 connector.



UP 2161
UP 2321

POWER AMPLIFIERS

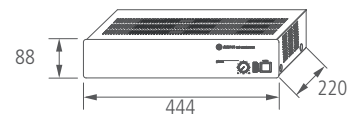
p/n 121.35.060

p/n 121.35.061

4'500 g

5'500 g

↕ mm



- Versatile amplifier for music and announcements
- Three different models with same features but different power: UP 2161 - 160 W; UP 2321 - 320 W
- Main input with selectable phantom power on removable connector XLR or RJ45 (for a quick connection with BM3001 through CAT5FTP cable)
- AUX input for audio sources (CD players, radios, etc.) through RCA connector
- Tone controllers and gain on AUX input
- Main input with priority option on the auxiliary one
- Main input with presence control and high-pass filter to enhance voice intelligibility
- Available output for low impedance speakers (4 Ohm min) or for constant voltage 100 - 70 V
- LED indicators on the front panel to monitor the amp status (ON, PROT, OVERLOAD) the selected priority (PRIOR) and signal level (SIG / PK)
- Rack mount kit for 2U amps included

UP 2082
UP 2162

POWER AMPLIFIERS

COD 121.35.066

COD 121.35.065

3'800 g

7'000 g

↕ mm



- UP 2082 and UP 2162 are devices with 2 separated and independent amplifiers, each one with an 80W (UP 2082) or 160W (UP 2162) power.
- Each amplifier features 2 audio inputs to "line" level, one of these with priority function
- Each amplifier has its own volume and tone controls
- Light indicators for the system status (ON), protection (PROT), priority circuit activation (PRIOR) and peak/audio signal level (SIG/PK) of the corresponding amplifier
- Two outputs for each amplifier, available to low impedance (4 Ω) or constant voltage 100 – 70 V
- 19" rack mount kit

SPECIFICATIONS	UP 2161 - UP 2321	UP 2082 - UP 2162
OUTPUT POWER	160 W (UP 2161) - 320 W (UP 2321)	2 x 80 W - 2 x 160 W
FREQUENCY RESPONSE	50 Hz ÷ 18.000 kHz	50 - 16.000 Hz (± 3 dB)
DISTORTION (THD+N)	< 0.3% @ 1 kHz	< 0,3% @ 1 kHz
SPEAKER OUTPUT	100 V, 70 V, 4 Ω	100 V, 70 V, 4 Ω
SIGNAL/NOISE RATIO	> 60 dB (INPUTS 1-4); > 80 dB (AUX IN)	600 Ω, -1 dBu (690 mV)
INPUT SENSITIVITY	(MIC) -58 dBu (1 mV); (MIC PHANTOM) -21 dBu (70 mV); (LINE) 0 dBu (775 mV); (AUX) -6 ÷ +13 dBu (0.39 ÷ 3.5 V)	> 80 dB
INPUT IMPEDANCE	(MIC) 10 kΩ; (MIC PHANTOM) 5 kΩ; (LINE): 10 kΩ; (AUX): 20 kΩ	IN 1: -12 dBu, IN 2: -32 ÷ -12 dBu
POWER SUPPLY	230 V / 115 (50 / 60 Hz) - INTERNAL SETTING	IN 1: 20 kΩ, IN 2: 20 kΩ (stereo: 10 kΩ)
ABSORBED POWER	240 W (UP 2161) - 440 W (UP 2321)	115-230V (internal setting) / 50-60 Hz
INPUT CONNECTORS	1 x XLR, 1 x RJ 45, 1 x SCREW TERMINALS, 1 x DOUBLE RCA (AUX)	350 W - 700 W
OUTPUT CONNECTORS	SCREW TERMINALS	2 x SCREW TERMINALS

UP 8501
UP 8502
UP 8504

| p/n 121.35.070

| p/n 121.35.077

| p/n 121.35.079



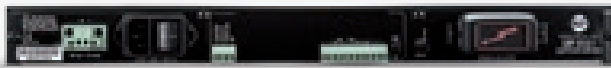
DIGITAL POWER AMPLIFIER



- Class D amplifier and double switching AC-DC power supply, transformer-less galvanic insulated speaker output
- Pro audio performance
- Selectable 70 – 100 V output per channel
- Double input per channel
- Active full protections on amplifier and power supply
- Stand-by, priority and fault remote commands
- Activity and status indicators
- Several status LEDs on front panel give a complete feedback on amplifier status
- Volume knobs on front panel with disablement facility
- Light-weight 1 U 19" rack enclosure
- EN 54-16 certified for voice alarm applications, when interconnected with RCF DXT 7000 system
- All connectors are removable screw terminals

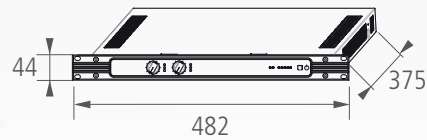
REAR VIEW

UP 8501



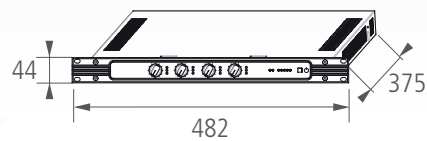
1'124 g
↕ mm

UP 8502



1'168 g
↕ mm

UP 8504



1'212 g
↕ mm

SPECIFICATIONS	UP 8501	UP 8502	UP 8504
OUTPUT POWER	1 X 500 W	2 X 250 W	4 X 125 W
FREQUENCY RESPONSE	40 HZ ÷ 16 kHz	40 HZ ÷ 16 kHz	40 HZ ÷ 16 kHz
DISTORTION (THD+N)	MAX. 0.3%	MAX. 0.3%	MAX. 0.3%
SPEAKER OUTPUT	100 V, 70 V	100 V, 70 V	100 V, 70 V
SIGNAL/NOISE RATIO	86 dB	86 dB	86 dB
INPUT SENSITIVITY	IN 1: 0 dBu (775 mV, max. 7 V), IN 2: 0 ÷ -20 dBu (775 ÷ 78 mV, max. 7 V), IN TEST: 0 dBu (775 mV)		
INPUT IMPEDANCE	70V: 10 Ω, 100W: 20 Ω	70V: 20 Ω, 100W: 40 Ω	70V: 40 Ω, 100W: 80 Ω
POWER SUPPLY	Mains: 115 – 230V c.a. ±10%, 50 – 60 Hz (internal voltage selector) Batteries : 48 V c.c. ±10%		
ABSORBED POWER	650 W	650 W	650 W
INPUT CONNECTORS	REMOVABLE SCREW TERMINALS	REMOVABLE SCREW TERMINALS	REMOVABLE SCREW TERMINALS
OUTPUT CONNECTORS	REMOVABLE SCREW TERMINALS	REMOVABLE SCREW TERMINALS	REMOVABLE SCREW TERMINALS

AM 1125

120W 4-INPUTS MIXER AMPLIFIER

p/n 121.35.082

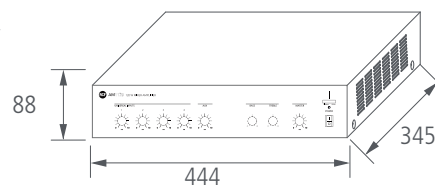
AM 1064

60W 3-INPUTS MIXER AMPLIFIER

p/n 121.35.081



1'200 g
mm



- 4 XLR input AM 1125 / 3XLR input AM 1064
- VOX facility and Phantom power supply on input 1
- Audio input 3 also with dual RCA connector
- Aux input on dual RCA connector
- DUCKING Control to adjust the Aux in level
- Audio output (with RCA connector) that sends the same signal routed to the internal amplifier
- Audio input (with RCA connector) to connect an external device directly to the internal power amplifier
- AM 1125 Input for the secondary 24 V dc power supply (batteries)
- Amplifier output to loudspeakers, available as 100 / 70 V constant voltage line and Low impedance (min. 4 Ω)

SPECIFICATIONS

	AM 1125	AM 1064
OUTPUT POWER	120 W	60 W
FREQUENCY RESPONSE	50÷15.000 Hz	
MAX CONSUMPTION	100V (83Ω) - 70V (42Ω) - 4Ω	100V (166Ω)
MAX. OUTPUT POWER	240 W	120 W
INPUT SENSITIVITY	MIC: 1.5 mV (- 54 dBu) dBu LINE & AUX: 200 mV (- 12 dBu) dBu	
INPUT CONNECTORS	XLR or Dual RCA	
OUTPUT CONNECTORS	Dual RCA	

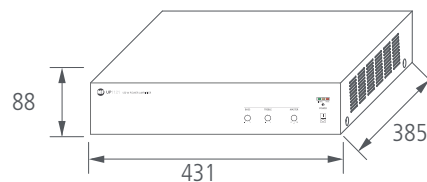
UP 4240

POWER AMPLIFIERS

p/n 121.35.073



1'400 g
mm



- 240 W power amplifier
- Suitable for the distribution of music and announcements
- Amplifier output available both for 100 / 70 V constant voltage lines and low impedance loudspeakers (min. 4 Ω)
- Input for the secondary 24 V DC power supply
- MASTER volume and tones BASS and TREBLE control on front panel
- Main power plug with fuse
- Main power voltage selector 230V / 115V
- LEDs indicating audio signal level on front panel

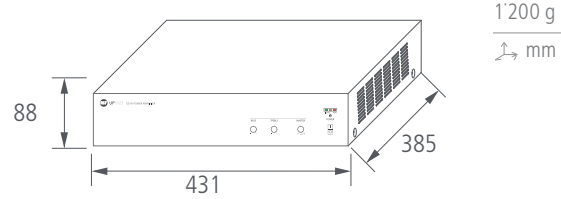
SPECIFICATIONS

	UP 1121
OUTPUT POWER	240 W
FREQUENCY RESPONSE	MIC: 60 Hz ÷ 15 kHz LINE: 50 Hz ÷ 18 kHz AUX: 50 Hz ÷ 20 kHz
MAX CONSUMPTION	100V (42Ω) - 70V (21Ω) - 4Ω
MAX. OUTPUT POWER	720 W
INPUT SENSITIVITY	LINE: 1 V (+ 2 dBu)
INPUT IMPEDANCE	10 KΩ (balanced)

UP 1121

INTEGRATED AMPLIFIER

p/n 121.35.083



- 120 W power amplifier
- Single balanced 'line' level audio input (terminal strip)
- Amplifier output to loudspeakers, available as 100 / 70 V constant voltage line and Low impedance (min. 4 Ω)
- Input for the secondary 24 V dc power supply (batteries)
- MASTER volume control with screw
- BASS and TREBLE tone screw control (centre position is flat response)
- Main POWER switch
- LEDs indicating the audio signal level
- Main connector with fuse

SPECIFICATIONS

OUTPUT POWER	120 W
FREQUENCY RESPONSE	60 ÷ 15.000 Hz
POWER CONSUMPTION	100V (83Ω) - 70V (42Ω) - 4Ω
ABSORBED POWER	350 W RMS
INPUT SENSITIVITY	LINE: 1 V (+ 2 dBu)
INPUT IMPEDANCE	10 KΩ (balanced)

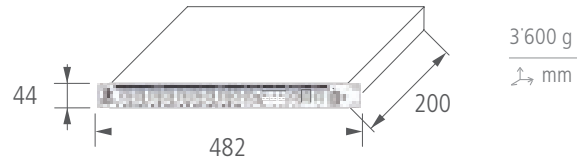
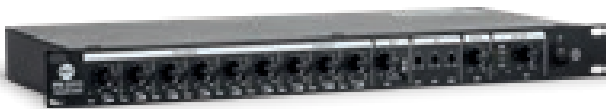
UP 1121

OUTPUT POWER	120 W
FREQUENCY RESPONSE	60 ÷ 15.000 Hz
POWER CONSUMPTION	100V (83Ω) - 70V (42Ω) - 4Ω
ABSORBED POWER	350 W RMS
INPUT SENSITIVITY	LINE: 1 V (+ 2 dBu)
INPUT IMPEDANCE	10 KΩ (balanced)

PR 4093

PRE-AMPLIFIER 9 INPUT 2 OUTPUT

p/n 171.00.003



- MP3 stereo player/recorder
- Supports SD cards and USB flash drives
- 32 GB Maximum supported memory
- Can play/record one file at a time
- A sequence of 64 file can be programmed
- Fixed MP3 recording format: 192 kbps
- 1 AUX INPUT with parallel AUX OUTPUT
- Disabled front buttons
- IR remote control included

SPECIFICATIONS

FREQUENCY RESPONSE:	20 ÷ 22.000 Hz
DISTORTION (THD & N):	≤ 0.03% a 1 kHz
TONE CONTROL	LOW: 80 Hz ± 15 dB; HIGH: 8 kHz ± 15 dB; MID: 2.5 kHz ± 12 dB
SENSITIVITY	-40 dBu (MIC) / 0 dBu (LINE)
MAX. INPUT LEVEL:	-19 dBu (MIC) / +21 dBu (LINE)
INPUT IMPEDANCE:	2 kΩ (MIC) / 19,5 kΩ (LINE)
ADJACENT STEREO INPUTS:	< -68 dB
INPUT TO OUTPUT:	< -76 dB a 1 kHz

PR 4093

FREQUENCY RESPONSE:	20 ÷ 22.000 Hz
DISTORTION (THD & N):	≤ 0.03% a 1 kHz
TONE CONTROL	LOW: 80 Hz ± 15 dB; HIGH: 8 kHz ± 15 dB; MID: 2.5 kHz ± 12 dB
SENSITIVITY	-40 dBu (MIC) / 0 dBu (LINE)
MAX. INPUT LEVEL:	-19 dBu (MIC) / +21 dBu (LINE)
INPUT IMPEDANCE:	2 kΩ (MIC) / 19,5 kΩ (LINE)
ADJACENT STEREO INPUTS:	< -68 dB
INPUT TO OUTPUT:	< -76 dB a 1 kHz

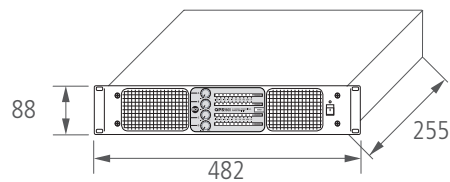
QPS 9600

p/n 121.35.102

4 X 2400 HIGH POWER PRO AMPLIFIER

16'00 g

↕ mm



- 240 W power amplifier
- Suitable for the distribution of music and announcements
- Amplifier output available both for 100 / 70 V constant voltage lines and low impedance loudspeakers (min. 4 Ω)
- Input for the secondary 24 V DC power supply
- MASTER volume and tones BASS and TREBLE control on front panel
- Main power plug with fuse
- Main power voltage selector 230V / 115V
- LEDs indicating audio signal level on front panel

SPECIFICATIONS

AMPLIFIER CLASS	QPS 9600
AMPLIFIER CLASS	HD
POWER OUTPUT RMS - STEREO	4x2400 W @ 2Ω 4x2200 W @ 4Ω 4x1300 W @ 8Ω
POWER OUTPUT RMS - BRIDGED	2x4800 W @ 4Ω 2x4400 W @ 8Ω
FREQUENCY RESPONSE	20 ÷ 25.000 Hz
THD (@ 1 KHZ)	0.05 % (nominal power, 4 Ω)
SIGNAL / NOISE RATIO	110 dB
GAIN	23 – 44 dB (3 dB step)
INPUT IMPEDANCE	20 kΩ (bil.), 10 kΩ (unbal.)
PROTECTIVE CIRCUITS	Temp., DC, RFI, short circuit
COOLING	Temperature-controlled fan
CROSSTALK (@ 1 KHZ)	> 70 dB
INPUT CONNECTORS	XLR female
POWER SUPPLY / OPERATION VOLTAGE	110 / 230 V, 50 / 60 Hz

HPS 1500

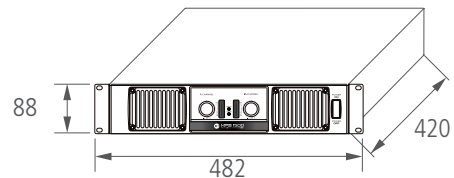
p/n 121.35.055

HPS 2500

p/n 121.35.054

2 X 1100 POWER PRO AMPLIFIER

↕ mm



- HPS 2500 is a 2 channel power amplifier that delivers up to 2 x 1100 W RMS @ 4 Ω (2200 W RMS bridged @ 8 Ω).
- XLR inputs for patching in signals as well as Speakon ports for connecting speaker systems are provided for the maximum flexibility.
- A forced air cooling system maintains a low operating temperature.

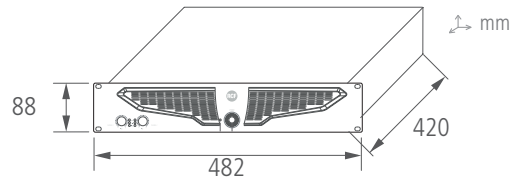
SPECIFICATIONS

	HPS 1500	HPS 2500
AMPLIFIER CLASS	H	H
POWER OUTPUT RMS - STEREO	2 x 750 W @ 4 Ω 2 x 450 W @ 8 Ω	2 x 1400 W @ 2 Ω 2 x 1100 W @ 4 Ω 2 x 700 W @ 8 Ω
POWER OUTPUT RMS - BRIDGED	1500 W @ 8 Ω	2800 W @ 4 Ω 2200 W @ 8 Ω
FREQUENCY RESPONSE	20 Hz ÷ 20 kHz	
THD (@ 1 KHZ)	0.05 %, 1 dB below clip	
SIGNAL / NOISE RATIO	106 dB	
GAIN	26 – 32 dB	
INPUT IMPEDANCE	20 kΩ (bil.), 10 kΩ (sbil.)	
PROTECTIVE CIRCUITS	Temp., DC, RFI, short circuit	
COOLING	Temperature-controlled fan	
CROSSTALK (@ 1 KHZ)	> 70 dB	
INPUT CONNECTORS	XLR female	
POWER SUPPLY / OPERATION VOLTAGE	220 ÷ 240 V (50 / 60 Hz)	
WEIGHT	17 kg	19 kg

IPS 700
IPS 1700
IPS 2700
IPS 3700

POWER PRO AMPLIFIER

- | p/n 121.35.087
- | p/n 121.35.089
- | p/n 121.35.091
- | p/n 121.35.093



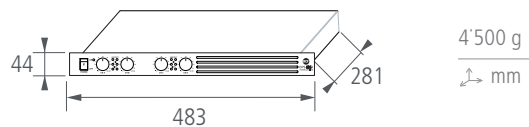
2-channel power amplifiers that provide power:

- IPS 700: delivers up to 2 x 300 W RMS @ 4 Ω (600 W RMS bridged @ 8 Ω)
- IPS 1700: delivers up to 2 x 450 W RMS @ 4 Ω (900 W RMS bridged @ 8 Ω)
- IPS 2700 delivers up to 2 x 1100 W RMS @ 4 Ω (2200 W RMS bridged @ 8 Ω).
- IPS 3700 delivers up to 2 x 1500 W RMS @ 4 Ω (3000 W RMS bridged @ 8 Ω).
- Thanks to its high efficiency class H design and high speed DC fans, the IPS series can withstand the hardest heat conditions ensuring great reliability.

SPECIFICATIONS	IPS 700	IPS 1700	IPS 2700	IPS 3700
AMPLIFIER CLASS	AB	H	H	H
POWER OUTPUT (W) STEREO PER CHANNEL @ OHM	2 x 300 W @ 4 Ω 2 x 150 W @ 8 Ω	2 x 450 W @ 4 Ω 2 x 330 W @ 8 Ω	2 x 1100 W @ 4 Ω 2 x 700 W @ 8 Ω	2 x 1500 W @ 4 Ω 2 x 1200 W @ 8 Ω
BRIDGED POWER	600 W @ 8 Ω	900 W @ 8 Ω	2200 W @ 8 Ω	3000 W @ 8 Ω
FREQUENCY RESPONSE	20 Hz ÷ 20 kHz			
THD @ 1 KHZ	< 0.5% (@ 1kHz)	< 1% (@ 1kHz)		
SIGNAL / NOISE RATIO	> 100dB (@ 1kHz, 0dBu input)			
IMPEDANCE	20 kΩ			
PROTECTIONS	DC, internal fault, input overload, RF interference, unmatched load, output short-circuit, thermal drift, power supply over-current			
COOLING	Internal heat sinks and forced ventilation			
CROSSTALK	> 75dB (@ 1kHz)			
INPUT CONNECTORS	XLR female			
POWER SUPPLY / OPERATION VOLTAGE	230V~ / 50-60 Hz			
WEIGHT	9,5 kg	11,2 kg	12,2 kg	16,6 kg

DPS 604X
 4 CHANNEL CLASS D POWER AMPLIFIER
 WITH CROSSOVER

| p/n 121.00.008



Class D power amplifier designed for professional use in installed sound systems. It has 4 inputs and 4 outputs that could be combined in different configurations: a DIP switch on the rear panel allows to choose among 8 operational modes, and easily adapt the system to the specific installation.

- Fast response and low distortion.
- Extensive protective circuits ensure high reliability and operating safety.
- Level control for each channel on the front panel.
- Signal and peak LED for each channel.

SPECIFICATIONS	DPS 604X
AMPLIFIER CLASS	D
RMS OUTPUT POWER (SINGLE CHANNELS)	4 x 80 W @ 8 Ω 4 x 150 W @ 4 Ω 4 x 230 W @ 2 Ω
RATED OUTPUT POWER (BRIDGED OUTPUTS)	2 x 300 W @ 8 Ω 2 x 400 W @ 4 Ω
FREQUENCY RESPONSE	20 Hz ÷ 33 kHz
SIGNAL / NOISE RATIO	> 95 dB
IMPEDANCE	20 kΩ (balanced) - 10 kΩ (unbalanced)
PROTECTIONS	Short circuit, open circuit, thermal drift, ultrasonic, RF protection, reactive or mismatched loads, internal fuses.
CROSSTALK (@ 1 KHZ)	< 70 dB
CONNECTORS	Euroblock
OPERATING VOLTAGE	230V~ / 50-60 Hz

FLUSH MOUNTED AND WALL SPEAKERS

The best solutions for wall or flush installations in false ceiling or panels.



MODEL	PL 50EN	PLP 50EN	PL 68EN	PL 70EN	PL 82EN	PL 40	PL 50
TYPE	Ceiling speaker	Ceiling speaker	Ceiling speaker	Ceiling speaker	Ceiling speaker	Ceiling speaker	Ceiling speaker
INSTALLATION	Flush mounted	Flush mounted	Flush mounted	Flush mounted	Flush mounted	Flush mounted	Flush mounted
COLOUR	White	White	White	White	White	White	White
SPEAKER	5"	5"	6" dual-cone	6" dual-cone	8" + 0.75"	3,5"	6"
POWER NOM. / PROGRAM	6 - 3 - 1,5 - 0,75 W	6 - 3 - 1,5 - 0,75 W	6 W RMS / 12 W	6 W RMS / 12 W	20 - 10 - 15 W	8 W RMS / 16 W	6 - 3 W
INPUT	100 V, 70 V	100 V, 70 V	100 V, 70 V	100 V, 70 V	100 V, 70 V	100 V, 70 V	100 V
FREQUENCY RESPONSE	130 Hz ÷ 15 kHz	130 Hz ÷ 15 kHz	230 Hz ÷ 20 kHz	230 Hz ÷ 20 kHz	130 Hz ÷ 20 kHz	90 Hz ÷ 20 kHz	100 Hz ÷ 20 kHz
MAX. SOUND PRESSURE	100 dB	101 dB	102 dB	99 dB	106 dB	100 dB	98 dB
ANGLE OF COVERAGE	160°	165°	126°	131°	160°	120°	150°
PROTECTION / CONFORMS	EN 54-24	EN 54-24	EN 54-24	EN 54-24	EN 54-24	-	-



MODEL	PL 60	PL 6X	PL 8X	HS 1026	WS 620XT	DU 100X
TYPE	Ceiling speaker	Ceiling speaker	Ceiling speaker	Ceiling speaker	Universal two-way	Universale 2 vie
INSTALLATION	Flush mounted	Flush mounted	Flush mounted	Flush mounted	Flush-mounted	Wall or flush mounted
COLOUR	White	White	White	White/Gold/Chrome	White	White
SPEAKER	6" dual-cone	6" + 1"	8" + 1"	3,5"	6" + 1"	4" + 1"
POWER NOM. / PROGRAM	6 W RMS / 12 W	12 W RMS / 24 W	20 W RMS / 40 W	6 W RMS / 12 W	12 W RMS / 24 W	10 W RMS / 20 W
INPUT	100 V, 70 V	100 V, 70 V	100 V, 70 V	100 V, 70 V	100 V, 70 V, 4 Ω	100 V, 70 V, 25 V
FREQUENCY RESPONSE	90 Hz ÷ 20 kHz	70 Hz ÷ 20 kHz	60 Hz ÷ 20 kHz	220 Hz ÷ 17 kHz	70 Hz ÷ 20 kHz	100 Hz ÷ 18 kHz
MAX. SOUND PRESSURE	107 dB	106 dB	109 dB	102 dB	105 dB	103 dB
ANGLE OF COVERAGE	90°	100°	80°	180°	120°	195° (Horiz) 165° (Ver)
PROTECTION / CONFORMS	-	IP 44	IP 44	-	IP 55	-



MODEL	BS 8	BS 2620	BS 5EN	DUP 5EN	DU 60EN	DU 50EN
TYPE	Suspended	Suspended	Suspended	Universal	Universal	Universal
INSTALLATION	Suspended	Suspended	Suspended	Wall	Wall or flush mounted	Wall or flush mounted
COLOUR	White	White	White	White	White	White
SPEAKER	8"	6" dual-cone	5" coassiale + 1"	5.5"	5" dual-cone	5"
POWER NOM. / PROGRAM	20 W RMS / 40 W	20 W RMS / 40 W	20-10-5-2,5/40W	10 W RMS / 20 W	6-3-1,5-0,75 W	6 W RMS / 12 W
INPUT	100 V	100 V	100 V	100 V, 70 V, 25 V	100 V (/70 V)	100 V, 70 V
FREQUENCY RESPONSE	160 Hz ÷ 12.5 kHz	100 Hz ÷ 20 kHz	80 Hz ÷ 20 kHz	130 Hz ÷ 17 kHz	100 Hz ÷ 20 kHz	190 Hz ÷ 18 kHz
MAX. SOUND PRESSURE	106 dB	106 dB	101 dB	100 dB	100 dB	100 dB
ANGLE OF COVERAGE	360°	180°	170°	180°	180°	175°
PROTECTION / CONFORMS	-	IP 55	IP 65 - EN 54-24	IP 65	EN 54-24	EN 54-24



MODEL	DM 61	DM 41	ELISA 50	DU 31	DU 31AT	GS 60
TYPE	Compact two-way	Compact two-way	Universal	Universal two-way	Universal two-way	For garden
INSTALLATION	Wall	Wall	Flush-mounted	Wall, Flush-mounted	Wall, Flush-mounted	Externe
COLOUR	White Ivory	White Ivory	White	White Ivory	White Ivory	Green
SPEAKER	6" + 1"	3,5" + 1"	3,5"	4" + 1"	4" + 1"	5.5" + 1.3"
POWER NOM. / PROGRAM	25 W RMS / 50 W	15 W RMS / 30 W	6 W RMS / 12 W	8-4-2 W (100V) - 8 (25V)	8-4-2 W (100V) - 8 (25V)	32-16-8-4-2-1 W (100 V)
INPUT	100 V, 70 V	100 V, 70 V	100 V, 70 V, 25 V, 4 Ω	100V, 70V, 25V	100V, 70V, 25V	100 / 70 V (cons. voltage) / 8 Ω
FREQUENCY RESPONSE	70 Hz ÷ 20 kHz	100 Hz ÷ 20 kHz	120 Hz ÷ 16 kHz	100 Hz ÷ 17 kHz	100 Hz ÷ 17 kHz	60 Hz ÷ 20 kHz
MAX. SOUND PRESSURE	106 dB	102 dB	99 dB	91 dB	91 dB	111 dB
ANGLE OF COVERAGE	120° (Horiz) 140° (Ver)	180° (Horiz) 170° (Ver)	160°	180°	180°	360°
PROTECTION / CONFORMS	IP 55	IP 55	-	-	-	IP 56

PL 50EN

CEILING SPEAKER WITH FIRE DOME

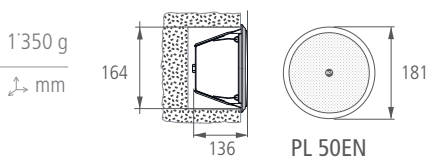
p/n 131.00.007



PLP 50EN

CEILING SPEAKER WITH PLASTIC FIRE DOME

p/n 131.00.008

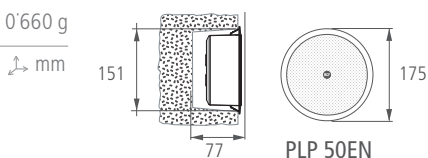


PL 50EN

- Speaker for transmitting alarm voice messages with high intelligibility and background music
- Steel protection Fire Dome, terminal strip in ceramic material for connecting flameproof input and output cables, thermal fuse, suitable internal wiring
- 5" diameter wide band loudspeaker.
- Power (selectable) at 100V: 6 W – 3 W – 1.5 W.
- Cabinet/Case Material: Metal
- Thermal fuse protection
- Colour white RAL 9016

SPECIFICATIONS

	PL 50EN	PLP 50EN
POWER SELECTION	6 - 3 - 1,5 W (100 V)	6 - 3 - 1,5 W (100 V)
CONSTANT VOLTAGE	100 V, 70 V	100 V, 70 V
FREQUENCY RESPONSE	130 Hz ÷ 15 kHz (-10dB)	130 Hz ÷ 15 kHz (-10dB)
SENSITIVITY (1 m / 1 W)	92 dB	93 dB
MAX SPL	100 dB (1 m)	101 dB (1 m)
COVERAGE ANGLE	160°	165°

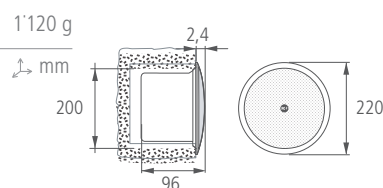


PLP 50EN

PL 68EN

CEILING SPEAKER WITH FIRE DOME

p/n 131.33.082



- Speaker for transmitting alarm voice messages with high intelligibility and background music
- Steel protection Fire Dome, terminal strip in ceramic material for connecting flameproof input and output cables, thermal fuse, suitable internal wiring
- Conforms to EN 54-24 regulations
- Structure, front grille, and protection cap in steel, RAL 9003 White
- 6" diameter dual cone wide band loudspeaker
- Power (selectable) at 100V: 6 W – 3 W – 1.5 W

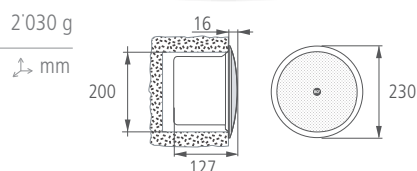
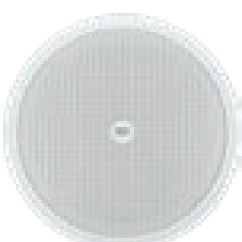
SPECIFICATIONS

	PL 68EN
POWER SELECTION	6 - 3 - 1,5 W (100 V)
CONSTANT VOLTAGE	100 V, 70 V
FREQUENCY RESPONSE	230 Hz ÷ 20 kHz (-10dB)
SENSITIVITY (1 m / 1 W)	94 dB
MAX SPL	102 dB (1 m)
COVERAGE ANGLE	126°

PL 70EN

CEILING SPEAKER WITH FIRE DOME

p/n 131.33.065



- Speaker for transmitting alarm voice messages with high intelligibility and background music
- Steel protection Fire Dome, terminal strip in ceramic material for connecting flameproof input and output cables, thermal fuse, suitable internal wiring
- Conforms to EN 54-24 regulations
- Structure, front grille, and protection cap in steel, RAL 9003 White
- 6" diameter dual cone wide band loudspeaker
- Power (selectable) at 100V: 6 W – 3 W – 1.5 W – 0.75 W

SPECIFICATIONS

	PL 70EN
POWER SELECTION	6 - 3 - 1,5 - 0.75 W (100 V)
CONSTANT VOLTAGE	100 V, 70 V
FREQUENCY RESPONSE	230 Hz ÷ 20 kHz (-10dB)
SENSITIVITY (1 m / 1 W)	93 dB
MAX SPL	99 dB (1 m)
COVERAGE ANGLE	131°

PL 82EN

p/n 131.00.009

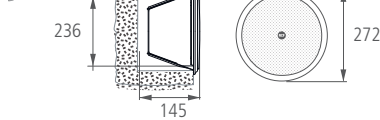
CERTIFIED EN 54-24
CPR: 0068-CPR-051/2017 CE

2 WAYS CEILING SPEAKER WITH FIRE DOME



1'800 g

mm



- Speaker for transmitting alarm voice messages with high intelligibility and background music
- Steel protection Fire Dome, terminal strip in ceramic material for connecting flameproof input and output cables, thermal fuse, suitable internal wiring
- Colour white RAL 9016
- 8" diameter wide band loudspeaker.
- Power (selectable) at 100V: 20 W – 10 W – 5 W

SPECIFICATIONS

PL 82EN

POWER SELECTION	20 - 10 - 5 W (100 V)
CONSTANT VOLTAGE	100 V, 70 V
FREQUENCY RESPONSE	130 Hz ÷ 20 kHz (-10dB)
SENSITIVITY (1 m / 1 W)	94 dB
MAX SPL	106 dB (1 m)
COVERAGE ANGLE	160°

PL 40

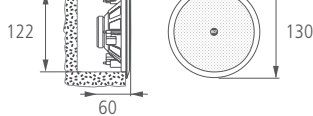
CEILING SPEAKERS

p/n 131.33.045



1'000 g

mm



- Recommended for speech and background-music reproduction
- IP 44 protection
- Low impedance (8Ω) or 100V
- 3.5" full range speaker
- Three hooks mounting system (no screws or other attachment elements)
- Built-in multi-tapped transformer for constant voltage connection
- Body in self-extinguishing (UL 94V-0) plastic and front metal grille RAL 9003 White

SPECIFICATIONS

PL 40

POWER SELECTION	8 - 6 - 4 - 2 W (100 V)
CONSTANT VOLTAGE	100 V, 70 V
FREQUENCY RESPONSE	90 Hz ÷ 20 kHz (-10dB)
SENSITIVITY (1 m / 1 W)	88 dB
MAX SPL	100 dB (1 m)
COVERAGE ANGLE	120°

PL 50

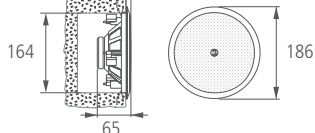
CEILING SPEAKERS

p/n 131.33.060 (only available in 12 pieces per package)



500 g

mm



- Suitable for paging and background music applications
- 6" wide band loudspeaker
- Sound pressure level at music power: 91 dB @ 1W/1m
- Built-in multi-tap line transformer, 100V and 70V constant voltage connection
- Body in self-extinguishing plastic, white colour
- Spring-type mounting system

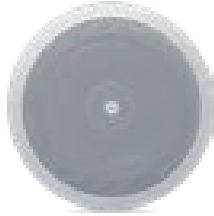
SPECIFICATIONS

PL 50

POWER SELECTION	6 – 3 W
CONSTANT VOLTAGE	100 V
FREQUENCY RESPONSE	100 Hz ÷ 20 kHz (-10dB)
SENSITIVITY (1 m / 1 W)	90 dB
MAX SPL	98 dB (1 m)
COVERAGE ANGLE	150°

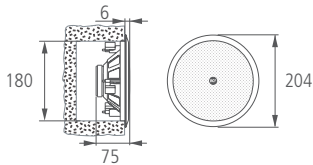
PL 60

HIGH EFFICIENCY CEILING SPEAKER



340 g

mm



p/n 131.10.214

- For paging and background music
- 6" dual cone wide band loudspeaker
- Sound pressure level at music power: 102 dB/1 m
- Low impedance (4Ω) or 100V
- Built-in multi-tapped transformer for 100/70V constant voltage connection
- Body in self-extinguishing plastic UL-94-V0 and front metal grille RAL 9010 White
- Optional accessory: A 1360 base for surface mount installation (p/n 133.20.107)

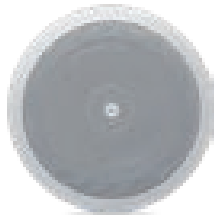
SPECIFICATIONS

PL 60

POWER SELECTION	6 - 3 W (100 V)
CONSTANT VOLTAGE	100 V, 70 V
FREQUENCY RESPONSE	90 Hz ÷ 20 kHz (-10dB)
SENSITIVITY (1 m / 1 W)	91 dB
MAX SPL	107 dB (1 m)
COVERAGE ANGLE	90°

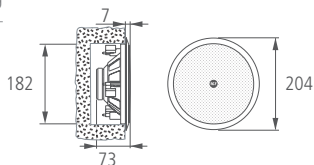
PL 6X

COAXIAL CEILING SPEAKER



780 g

mm



p/n 131.33.042

- Two way speaker system with dome tweeter recommended for speech and background-music reproduction
- 6" woofer with coaxial tweeter
- Low impedance (8Ω) or 100V
- Built-in multi-tapped transformer for 100/70V constant voltage connection
- Three hooks mounting system (no screws or other attachment elements)
- Body in self-extinguishing (UL 94V-0) plastic and front metal grille RAL 9003 White

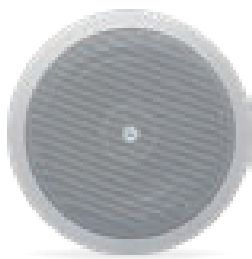
SPECIFICATIONS

PL 6X

POWER SELECTION	12 - 6 - 3 - 1.5 W (100 V)
CONSTANT VOLTAGE	100 V, 70 V
FREQUENCY RESPONSE	70 ÷ 20 kHz (-10dB)
SENSITIVITY (1 m / 1 W)	92 dB
MAX SPL	106 Hz dB (1 m)
COVERAGE ANGLE	100°

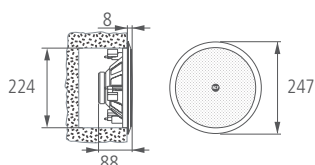
PL 8X

COAXIAL CEILING SPEAKER



1'230 g

mm



p/n 131.33.043

- Two way speaker system with dome tweeter for hi level speech and background-music
- 8" woofer with coaxial tweeter
- Low impedance (8Ω) or 100V
- Built-in multi-tapped transformer for 100/70V constant voltage connection
- Body in self-extinguishing plastic (UL 94V-0) and front metal grille RAL 9003 White
- IP 44 protection

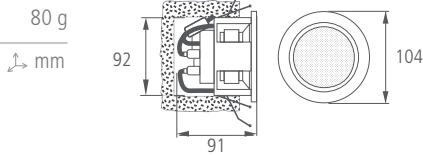
SPECIFICATIONS

PL 8X

POWER SELECTION	20 - 10 - 5 - 2,5 W (100 V)
CONSTANT VOLTAGE	100 V, 70 V
FREQUENCY RESPONSE	60 Hz ÷ 20 kHz (-10dB)
SENSITIVITY (1 m / 1 W)	93 dB
MAX SPL	109 dB (1 m)
COVERAGE ANGLE	80°

HS 1026 W

SPOTLIGHT CEILING SPEAKER



p/n 131.10.062

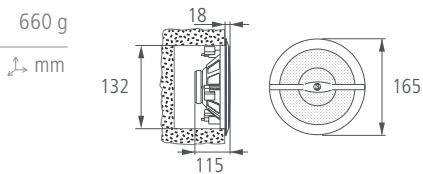
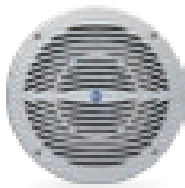
- For paging and background music
- 3.5" extended range loudspeaker
- High-pass filter for use with optional subwoofer
- Low impedance (8Ω) or 100V
- Built-in multi-tapped transformer for 100/70V constant voltage connection
- Ease of installation in standard holes used for lightspots

SPECIFICATIONS

SPECIFICATIONS	HS 1026 W
POWER SELECTION	6 - 3 - 1.5 W (100 V)
CONSTANT VOLTAGE	100 V, 70 V
FREQUENCY RESPONSE	220 Hz ÷ 17 kHz (-10dB)
SENSITIVITY (1 m / 1 W)	89 dB
MAX SPL	102 dB (1 m)
COVERAGE ANGLE	180°

WS 620XT

TWO-WAY WEATHER RESISTANT
FULSH MOUNTING SPEAKER



p/n 131.33.044

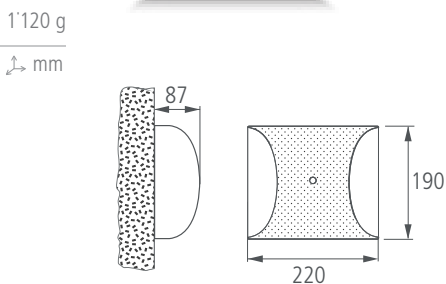
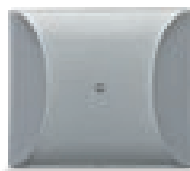
- Weather resistant splashproof speaker
- 6" woofer with coaxial tweeter
- Music power/RMS: 24/12W (20W if used at 4Ω)
- Two way speaker system with coaxial tweeter, recommended for hi level speech and background-music reproduction
- Body and grille in plastic RAL 9016 White
- IP 55 protection

SPECIFICATIONS

SPECIFICATIONS	WS 620XT
POWER SELECTION	12 - 6 - 3 W (100 V)
CONSTANT VOLTAGE	100 V, 70 V
FREQUENCY RESPONSE	70 Hz ÷ 20 kHz (-10dB)
SENSITIVITY (1 m / 1 W)	91 dB
MAX SPL	105 dB (1 m)
COVERAGE ANGLE	120°

DU 100X

COAXIAL SPEAKER UNIVERSAL



p/n 130.00.105

- Ideal for paging and background music, wall or ceiling installation
- Dual-cone extended range loudspeaker, 4" diameter
- Plastic body with shock-proof metal grid
- Built-in multi-tapped transformer for 100/70V constant voltage connection
- Body in ABS and metal grille RAL 9003 White
- Power selection

SPECIFICATIONS

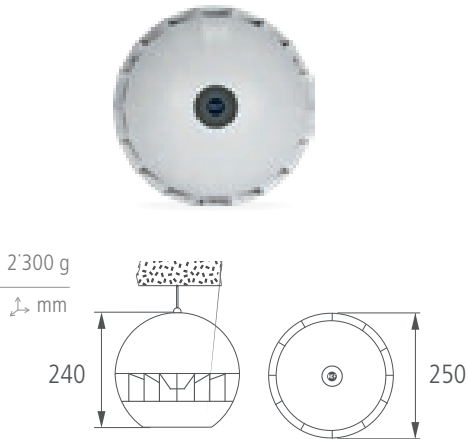
SPECIFICATIONS	DU 100X
POWER SELECTION	10 - 5 - 2.5 - 1.2 - 0.6 W (100 V)
CONSTANT VOLTAGE	100 V, 70 V, 25 V
FREQUENCY RESPONSE	100 Hz ÷ 18 kHz (-10dB)
SENSITIVITY (1 m / 1 W)	93 dB
MAX SPL	103 dB (1 m)
COVERAGE ANGLE	195° (HORIZ.); 165° (VERT.)

BS 8

PENDENT BALL SPEAKER

p/n 131.33.054

- Pendant speaker
- For paging and background music
- 8" diameter dual cone wide band speaker
- Plastic body - White RAL 9010
- Built-in transformer for 100V constant voltage connection
- 5-metre suspension and connection cable included



SPECIFICATIONS

BS 8

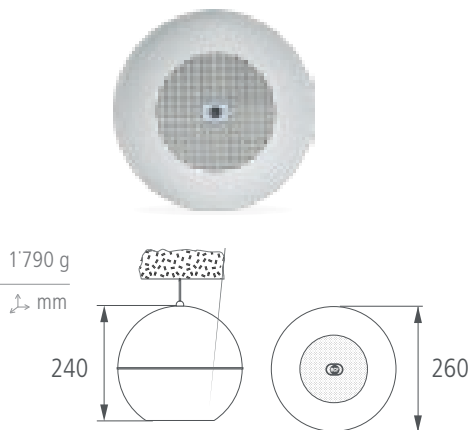
POWER SELECTION	20-10-5 W (100 V)
CONSTANT VOLTAGE	100 V
FREQUENCY RESPONSE	160 Hz ÷ 12.5 kHz (-10dB)
SENSITIVITY (1 m / 1 W)	93 dB
MAX SPL	106 dB (1 m)
COVERAGE ANGLE	360°

BS 2620

HIGH PERFORMANCE PENDENT BALL SPEAKER

p/n131.10.006

- For paging and background music
- 6" diameter dual cone wide band speaker
- 5-metre suspension and connection cable included
- Weather-resistant construction (IP55) for use both indoors and outdoors
- Body in self-extinguishing plastic UL94V0, UV ray protected
- Music power/RMS: 40/20W
- Colour RAL 9010 white



SPECIFICATIONS

BS 2620

POWER SELECTION	20 - 10 - 5 - 2,5 W (100 V)
CONSTANT VOLTAGE	100 V
FREQUENCY RESPONSE	100 Hz ÷ 20 kHz (-10dB)
SENSITIVITY (1 m / 1 W)	93 dB
MAX SPL	106 dB (1 m)
COVERAGE ANGLE	180°

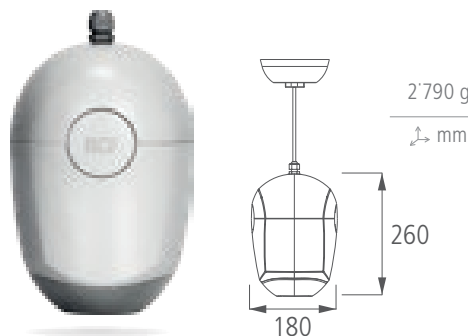
BS 5EN

COMPLIANT SUSPENDED SOUND PROJECTOR

p/n 131.33.078



- 5" coaxial speaker for alarm voice messages broadcasting and high quality background music.
- ABS cabinet with steel mesh grille
- It can be installed both indoors and outdoors (IP 65 protection grade)
- Equipped with transformer for 100 V (/ 70 V) constant voltage lines
- Internal power setting
- Ceramic screw terminal for connection
- Internal thermal fuse
- 5 meters cable



SPECIFICATIONS

BS 5-EN

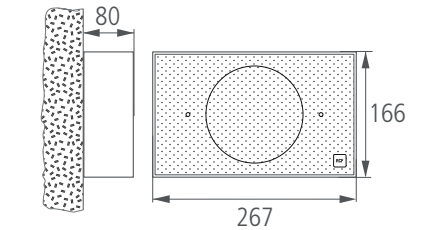
POWER SELECTION	20 - 10 - 5 - 2,5 W (100 V)
CONSTANT VOLTAGE	100 V, 70 V
FREQUENCY RESPONSE	80 Hz ÷ 20 kHz (-10dB)
SENSITIVITY (1 m / 1 W)	88 dB
MAX SPL	101 dB (1 m)
COVERAGE ANGLE	170°

DUP 5EN

UNIVERSAL WALL MOUNT
PLASTIC SPEAKER

1'150 g

↕ mm



p/n 131.00.019



- 5.5" full range speaker for alarm voice messages broadcasting and high quality background music
- ABS enclosure with powder coated grille.
- Equipped with transformer for 100 V (/ 70 V) constant voltage lines
- Internal power setting
- Ceramic terminal strip for connection
- Internal thermal fuse
- Color: White RAL 9016

SPECIFICATIONS

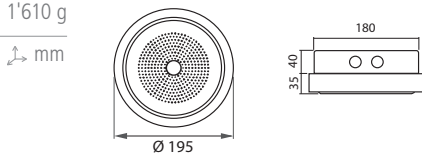
SPECIFICATIONS	DUP 5EN
POWER SELECTION	6 - 3 - 1,5 W (100 V)
CONSTANT VOLTAGE	100 V, 70 V
FREQUENCY RESPONSE	130 Hz ÷ 17 kHz (-10dB)
SENSITIVITY (1 m / 1 W)	92 dB
MAX SPL	100 dB (1 m)
COVERAGE ANGLE	180°

DU 60EN

WALL/CEILING UNIVERSAL
STEEL SPEAKER

1'610 g

↕ mm



p/n 131.33.083



- Speaker designed for transmitting alarm messages with high intelligibility, and background music
- Musical power/RMS: 12/6W
- Wide-band dual cone loudspeaker, diameter 5"
- Extra-thick steel housing, terminal strip for connections made of ceramic material for flameproof input and output cables, thermal fuse, suitable internal wiring
- Colour: RAL 9010 White

SPECIFICATIONS

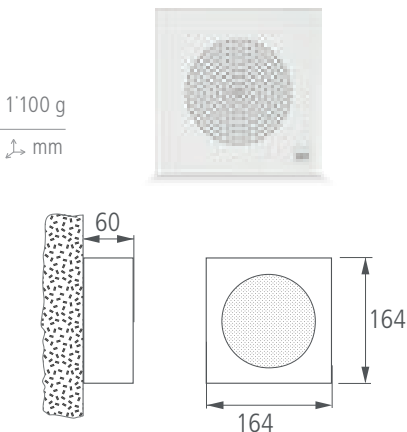
SPECIFICATIONS	DU 60EN
POWER SELECTION	6 - 3 - 1,5 - 0,75 W
CONSTANT VOLTAGE	100 V, 70 V
FREQUENCY RESPONSE	100 Hz ÷ 20 kHz (-10 dB)
SENSITIVITY (1 m / 1 W)	94 dB
MAX SPL	100 dB
COVERAGE ANGLE	180°

DU 50EN

WALL/CEILING UNIVERSAL
STEEL SPEAKER

1'100 g

↕ mm



p/n 131.33.064



- Speaker for transmitting alarm voice messages with high intelligibility and background music.
- Wide-band dual cone loudspeaker, diameter 5".
- Power (selectable) at 100V: 6 W – 3 W – 1.5 W – 0.75 W
- Extra-thick steel housing, terminal strip for connections made of ceramic material for flameproof input and output cables, thermal fuse, suitable internal wiring
- Colour: RAL 9010 White

SPECIFICATIONS

SPECIFICATIONS	DU 50EN
POWER SELECTION	6 - 3 - 1,5 - 0,75 W (100 V)
CONSTANT VOLTAGE	100 V, 70 V
FREQUENCY RESPONSE	190 Hz ÷ 18 kHz (-10dB)
SENSITIVITY (1 m / 1 W)	91 dB
MAX SPL	100 dB (1 m)
COVERAGE ANGLE	175°

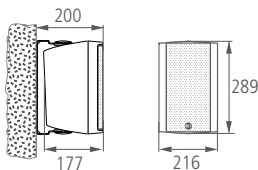
DM 61

COMPACT TWO-WAY SPEAKER



3'980 g

mm



p/n 130.00.050

- Woofer 6" with mylar dome tweeter
- Built-in multitap transformer for constant voltage system
- Body in self-extinguishing composite material
- IP55 protection, suitable for outdoor use
- Adjustable mounting accessory included
- Program/rated power: 50/25W
- Each model can be connected to either a 100 V constant voltage line or a low impedance amplifier output

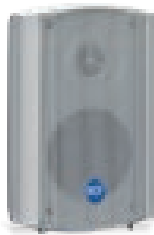
SPECIFICATIONS

SPECIFICATIONS	DM 61
POWER SELECTION	25 - 12.5 - 7.5 - 5 - 2.5 W (100 V)
CONSTANT VOLTAGE	100 V, 70 V
FREQUENCY RESPONSE	70 ÷ 20 kHz (-10dB)
SENSITIVITY (1 m / 1 W)	89 dB
MAX SPL	106 dB (1 m)
COVERAGE ANGLE	120° (HORIZ.); 140° (VERT.)

DM 41

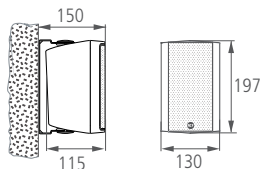
DM 41 B Black

COMPACT TWO-WAY SPEAKER



1'700 g

mm



p/n 130.00.049

p/n 130.00.387

- 3.5" woofer with mylar dome 1" tweeter
- Built-in multitap transformer for constant voltage system
- Body in self-extinguishing composite material
- IP55 protection, suitable for outdoor use
- Adjustable mounting accessory included
- Music power/RMS: 30 W / 15 W
- Each model can be connected to either a 100 V constant voltage line or a low impedance amplifier output

SPECIFICATIONS

SPECIFICATIONS	DM 41
POWER SELECTION	15 - 7.5 - 5 - 2.5 - 1.25 W (100 V) SELEZ.
CONSTANT VOLTAGE	100 V, 70 V
FREQUENCY RESPONSE	100 ÷ 20 kHz (-10dB)
SENSITIVITY (1 m / 1 W)	87 dB
MAX SPL	102 dB (1 m)
COVERAGE ANGLE	180° (HORIZ.); 170° (VERT.)

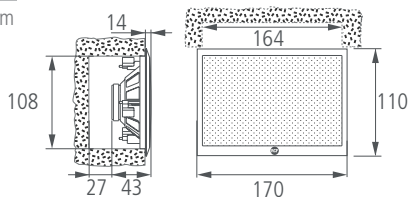
ELISA 50

COMPACT HI-DEFINITION FLUSH MOUNT WALL SPEAKER



450 g

mm



p/n 131.10.071

- For high quality paging and background music
- Music power/RMS: 12/6W (20/10W in use without transformer, 4Ω)
- 3.5" extended range speaker with central equaliser, carbon fibre cone
- Equipped with multi-tapped transformer for 100/70/25V constant voltage connection
- Flush mount box with soundproof material included
- Front frame in ABS and metal grille RAL 9010 White

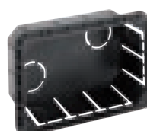
SPECIFICATIONS

SPECIFICATIONS	ELISA 50
POWER SELECTION	6 - 3 - 1 W (100 V)
CONSTANT VOLTAGE	100 V, 70 V, 25 V, 4 Ω
FREQUENCY RESPONSE	120 ÷ 16 kHz (-10dB)
SENSITIVITY (1 m / 1 W)	88 dB
MAX SPL	99 dB (1 m)
COVERAGE ANGLE	160° (HORIZ.)

AC 50B

FLUSH MOUNT BOX

p/n 133.60.038



- Flush mount box for E.L.I.S.A. 50 speaker
- Dimensions. 152x97x70 mm

DU 31

FLUSH MOUNT WALL SPEAKER

p/n 130.00.204

DU 31AT

FLUSH MOUNT WALL SPEAKER
WITH POWER SELECTOR

p/n 130.00.220

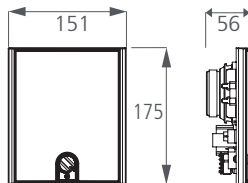


DU 31

DU 31AT

600 g

mm



- For paging and background music for several type of installation
- 2 way wall speaker with flexible design with wide band 4" woofer and 1" tweeter
- Includes a transformer for the connection to (100 - 70 - 25 V) constant voltage lines and a 25 V socket makes it possible to connect multiple speakers in parallel to a constant impedance line
- Wattage taps (8 W, 4 W, 2W, 1W, 0,5W at 100 V) is selectable by means of a Rotary switch, accessible from the front panel
- Universal wall mounting on standard European flush mounting boxes.
- Body in plastic, RAL 9002 White Ivory

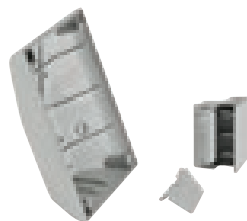
SPECIFICATIONS

	DU 31	DU 31AT
POWER SELECTION	8 - 4 - 2 W (100 V) - 8 W (25 V)	8 - 4 - 2 W (100 V) - 8 W (25 V)
CONSTANT VOLTAGE	100 V, 70 V, 25 V	100 V, 70 V, 25 V
FREQUENCY RESPONSE	100 - 17 kHz (-10dB)	100 - 17 kHz (-10dB)
SENSITIVITY (1 m / 1 W)	82 dB	82 dB
MAX SPL	91 dB (1 m)	91 dB (1 m)
COVERAGE ANGLE	180°	180°

A 1331

SURFACE MOUNT FOR
DU 31 / DU 31AT

p/n 133.60.123



- Quickly and easily installed on any flat surface
- Body in plastic, RAL 9002 White Ivory



DU 31AT Table mounting support with tilt 15°



DU31 and A1331 wall mounting support with tilt 0°



DU31 and A1331 wall mounting support with tilt 15°



DU31 and A1331 flag mount support unidirectional



2 x DU31 and 2 x A1331 flag mount support bi-directional

GS 60

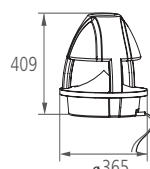
GARDEN SPEAKER

p/n 131.33.084



4195 g

mm



- Body made of linear low-density polyethylene
- Coaxial transducer with 5,25" woofer and 1,20" tweeter
- Suitable for installation on different surfaces
- Can be used in constant voltage lines 100V / 70V or in low impedance (8 ohm)
- Protection grade IP56

SPECIFICATIONS

	GS 60
POWER SELECTION	32 - 16 - 8 - 4 - 2 - 1 W (100V)
CONSTANT VOLTAGE	100 V, 70 V
FREQUENCY RESPONSE	60 Hz ÷ 20 kHz
SENSITIVITY (1 m / 1 W)	90 dB
MAX SPL	111 dB
COVERAGE ANGLE	360°

SOUND PROJECTORS, MONITORS AND COLUMN SPEAKERS

Maximum speech intelligibility
for every public ambience and for any
kind of application.



MODEL	DP 4EN	DP 1420EN	BD 2412EN	DP 5EN	BD 5EN	DP 4	BD 42
TYPE	Projector	Proiettore Allum.	Projector Bidirec.	Projector	Projector Bidirec.	Projector	Projector Bidirec.
INSTALLATION	Wall o Flush Mounted	Wall o Flush Mounted	Wall o Flush Mounted	Wall o Flush Mounted	Wall o Flush Mounted	Wall o Flush Mounted	Wall o Flush Mounted
COLOUR	Grey	Grey	Grey	White	White	Grey	Grey
SPEAKER	4"	5"	2 x 5"	5"	2 x 5"	5"	2 x 5"
POWER NOM. / PROGRAM	10 W RMS / 40 W	20 W RMS / 40 W	20 W RMS / 40 W	20 W RMS / 40 W	20 W RMS / 40 W	10 W RMS / 20 W	12 W RMS / 24 W
INPUT	100 V	100 V, 70 V,	100 V, 70 V,	100 V, 70 V,	100 V, 70 V,	100 V	100 V
FREQUENCY RESPONSE	180 Hz ÷ 16 kHz	160 Hz ÷ 20 kHz	130 Hz ÷ 20 kHz	80 Hz ÷ 20 kHz	150 Hz ÷ 18 kHz	180 Hz ÷ 16 kHz	130 Hz ÷ 15 kHz
MAX. SOUND PRESSURE	101 dB	105 dB	101 dB	101 dB	99 dB	101 dB	102 dB
ANGLE OF COVERAGE	180°	155°	130°*	210°*	210°*	210°	130°*
PROTECTION / CONFORMS	IP 55, EN 54-24	IP 66, EN 54-24	IP 66, EN 54-24	IP 65, EN 54-24	IP 65, EN 54-24	IP 55	IP 55



MODEL	CS 6520EN	CS 6940EN	CS 3041	CS 3082
TYPE	Column speaker two-way	Column speaker two-way	Column speaker two-way	Column speaker two-way
INSTALLATION	Wall	Wall	Wall	Wall
COLOUR	White	White	White	White
SPEAKER	4 x 3.15" + 0.8"	8 x 3" + 0.75"	4 x 2" + 1"	8 x 2" + 2 x 1"
POWER NOM. / PROGRAM	20 W RMS / 40 W	40 W RMS / 80 W	15 W RMS / 30 W	30 W RMS / 60 W
INPUT	100 V, 70 V	100 V, 70 V	100 V, 70 V	100 V, 70 V
FREQUENCY RESPONSE	140 Hz ÷ 20 kHz	140 Hz ÷ 20 kHz	200 Hz - 18 kHz	200 Hz - 20 kHz
MAX. SOUND PRESSURE	105 dB	109 dB	102 dB	106 dB
ANGLE OF COVERAGE	185° (Horiz) 47° (Ver)	194° (Horiz) 30° (Ver)	180° (Horiz) 70° (Ver)	180° (Horiz) 30° (Ver)
PROTECTION / CONFORMS	IP 66, EN 54-24	IP 66, EN 54-24	-	-



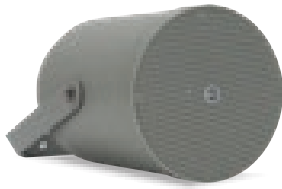
MODEL	MR 52EN	MR 33T	MR 44T	MR 55	MQ 100L	MQ 90S
TYPE	Compact two-way	Compact two-way	Compact two-way	Compact two-way	Column speaker Three-way	Subwoofer
INSTALLATION	Wall	Wall	Wall	Wall	Wall	Universal
COLOUR	White/Black	White/Black	White/Black	White/Black	White/Black	Black
SPEAKER	5" + 1"	4.75" + 0.5"	5" + 0.5"	5" + 0.75"	2x3.5" + 2x3.5" + 2x0.75"	8"
POWER NOM. / PROGRAM	30W - 15W - 7.5W - 3.75W	20-40 W IEC	40 W IEC	175 W IEC	80 W RMS / 160 W	60 W RMS / 120 W
INPUT	100 V, 70 V	100 V, 70 V, 50 V, 25 V	100 V, 70 V, 50 V, 25 V	4 Ω	100 V, 70 V - 16 Ω	100 V, 70 V - 16 Ω
FREQUENCY RESPONSE	80 Hz ÷ 20 kHz	100 Hz ÷ 20 kHz	60 Hz ÷ 23 kHz	55 Hz ÷ 25 kHz	130 Hz ÷ 20 kHz	70 Hz ÷ 200 Hz
MAX. SOUND PRESSURE	103 dB	105 dB	108 dB	110 dB	112 dB	107 dB
ANGLE OF COVERAGE	180°	100° (Horiz) 110° (Ver)	110°	110°	180° (Horiz) 60° (Ver)	-
PROTECTION / CONFORMS	EN 54-24	-	-	-	-	-



MODEL	MQ 30P	MQ 50	MQ 50C	MQ 50i	MQ 60H	MQ 80P
TYPE	Compact two-way	Compact two-way	Ceiling two-way	Flush Mounted two-way	Compact two-way	Projector two-way
INSTALLATION	Projector	Wall	Ceiling	Wall	Wall	Projector
COLOUR	White/Black	White/Black	White	White	White/Black	White/Black
SPEAKER	3.5" + 0.75"	5" + 0.75"	5" + 1"	5" + 0.75"	5" + 2 x 1"	5" + 1"
POWER NOM. / PROGRAM	12W RMS / 24W	60 W RMS / 120 W	60 W RMS / 120 W	60 W RMS / 120 W	60 W RMS / 120 W	60 W RMS / 120 W
INPUT	100 V, 70 V - 16 Ω	100 V, 70 V - 16 Ω	100 V, 70 V - 16 Ω	100 V, 70 V - 16 Ω	100 V, 70 V - 16 Ω	100 V, 70 V - 8 Ω
FREQUENCY RESPONSE	150 Hz ÷ 20 kHz	70 Hz ÷ 20 kHz	70 Hz ÷ 20 kHz	180 Hz ÷ 20 kHz	100 Hz ÷ 19 kHz	100 Hz ÷ 20 kHz
MAX. SOUND PRESSURE	102 dB	110dB	112 dB	108 dB	109 dB	114 dB
ANGLE OF COVERAGE	120°	120° (Horiz) 100° (Ver)	120°	120° (Horiz) 100° (Ver)	180° (Horiz) 100° (Ver)	90° (Horiz) 60° (Ver)
PROTECTION / CONFORMS	-	-	-	-	-	IP 55

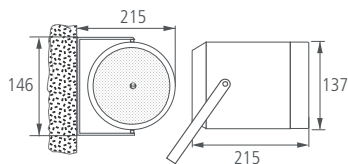
DP 4EN

UNIDIRECTIONAL SOUND PROJECTOR



1'300 g

↕ mm



p/n 131.00.021

CERTIFIED EN 54-24
CPR: 0068-CPR-085/2017 CE

- 4" full range speaker for alarm voice messages broadcasting and high quality background music
- ABS cabinet with aluminum grille.
- It can be installed both indoors and outdoors (IP 55 protection grade).
- with transformer for 100 V (/ 70 V) constant voltage lines.
- Internal power setting.
- Ceramic terminal strip for connection
- Internal thermal fuse.
- Color: Grey RAL 7035

SPECIFICATIONS

DP 4EN

POWER SELECTION	10 - 5 - 2.5 W (100 V)
CONSTANT VOLTAGE	100 V
FREQUENCY RESPONSE	180 ÷ 16 kHz (-10dB)
SENSITIVITY (1 m / 1 W)	91 dB
MAX SPL	101 dB (1 m / POWER MAX)
COVERAGE ANGLE	180°

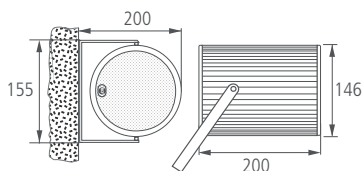
DP 1420EN

ALUMINIUM SOUND PROJECTOR



2'730 g

↕ mm



p/n 131.33.071

CERTIFIED EN 54-24
CPR: 1488-CPR-0485/W CE

- Unidirectional sound projector characterized by high acoustic performance
- Complying with EN 54-24 standard thanks to ceramic termination block, thermal fuse and internal fire-resistant cable
- IP 66 protection, suitable for outdoor use
- It's ideal for train stations, underground stations, car parks, factories, warehouses, and PA systems in general
- Continuous nominal power: 20/40 W ([100 V]: 20-10-5 W - [70V]: 20-10-5 W)

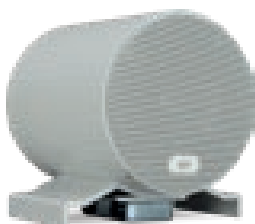
SPECIFICATIONS

DP 1420EN

POWER SELECTION	20 - 10 - 5 - 2.5 - 1.25 W (100 V)
CONSTANT VOLTAGE	100 V, 70 V
FREQUENCY RESPONSE	160 ÷ 20 kHz (-10dB)
SENSITIVITY (1 m / 1 W)	92 dB
MAX SPL	105 dB (1 m)
COVERAGE ANGLE	155°

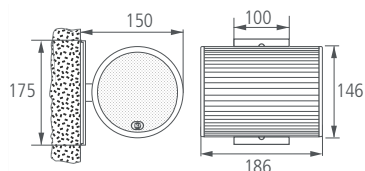
BD 2412EN

ALUMINIUM BIDIRECTIONAL SOUND PROJECTOR



3'200 g

↕ mm



p/n 131.33.074

CERTIFIED EN 54-24
CPR: 1488-CPR-0641/W CE

- Bidirectional sound projector with double loudspeaker, characterized by high acoustic performance, excellent design and compact dimensions
- Complying with EN 54-24 standard thanks to ceramic termination block, thermal fuse and internal fire-resistant cable
- IP 66 protection, suitable for outdoor use
- It's ideal for train stations, underground stations, car parks, factories, warehouses, and PA systems in general

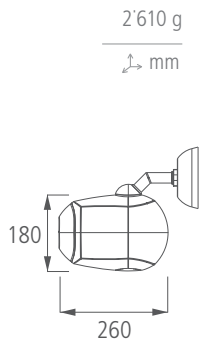
SPECIFICATIONS

BD 2412EN

POWER SELECTION	20 - 10 - 5 W (100 V)
CONSTANT VOLTAGE	100 V, 70 V
FREQUENCY RESPONSE	130 ÷ 20 kHz (-10dB)
SENSITIVITY (1 m / 1 W)	88 dB
MAX SPL	101 dB (1 m)
COVERAGE ANGLE	130° (per ogni altoparlante)

DP 5EN

MONODIRECTIONAL PROJECTOR



p/n 131.33.076

CERTIFIED EN 54-24
CPR: 0068-CPR-058/2014

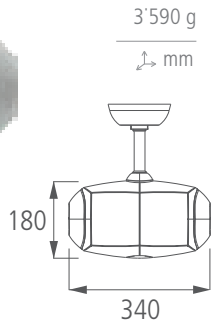
- 5" full range speaker for alarm voice messages broadcasting and high quality background music
- ABS cabinet with steel mesh grille
- It can be installed both indoors and outdoors (IP 65 protection grade)
- Equipped with transformer for 100 V (/ 70 V) constant voltage lines
- Internal power setting
- Ceramic screw terminal for connection
- Internal thermal fuse

SPECIFICATIONS

SPECIFICATIONS	DP 5-EN
POWER SELECTION	20 W – 10 W – 5 W – 2.5 W (100 V) W RMS
CONSTANT VOLTAGE	100 V, 70 V
FREQUENCY RESPONSE	80 ÷ 20 kHz (-10dB)
SENSITIVITY (1 m / 1 W)	88 dB
MAX SPL	101 dB (1 m)
COVERAGE ANGLE	210°

BD 5EN

BIDIRECTIONAL PROJECTOR



p/n 131.33.077

CERTIFIED EN 54-24
CPR: 0068-CPR-058/2014

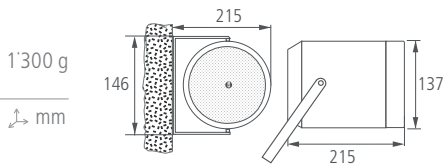
- 5" full range speaker for alarm voice messages broadcasting and high quality background music
- ABS cabinet with steel mesh grille
- It can be installed both indoors and outdoors (IP 65 protection grade)
- Equipped with transformer for 100 V (/ 70 V) constant voltage lines
- Internal power setting
- Ceramic screw terminal for connection
- Internal thermal fuse

SPECIFICATIONS

SPECIFICATIONS	BD 5-EN
POWER SELECTION	20 W – 10 W – 5 W – 2.5 W (100 V) W RMS
CONSTANT VOLTAGE	100 V, 70 V
FREQUENCY RESPONSE	150 ÷ 18 kHz (-10dB)
SENSITIVITY (1 m / 1 W)	86 dB
MAX SPL	99 dB (1 m)
COVERAGE ANGLE	210° in entrambe le direzioni

DP 4

INDOOR/OUTDOOR SOUND PROJECTOR



p/n 130.00.106

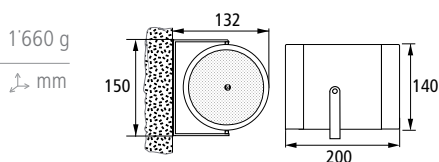
- Ideal for paging and background music
- IP55 protection, suitable for outdoor use
- 5" diameter extended range twin-cone loudspeaker
- Built-in multi-tapped transformer for connection constant voltage 100V
- Equipped with aluminium "U" bracket

SPECIFICATIONS

SPECIFICATIONS	DP 4
POWER SELECTION	10 - 5 W (100 V)
CONSTANT VOLTAGE	100 V
FREQUENCY RESPONSE	180 ÷ 16 kHz (-10dB)
SENSITIVITY (1 m / 1 W)	91 dB
MAX SPL	101 dB (1 m / POWER MAX)
COVERAGE ANGLE	210°

BD 42

INDOOR / OUTDOOR BIDIRECTIONAL SOUND PROJECTOR



p/n 130.00.247

- It's ideal for train stations, underground stations, car parks, factories, and PA systems in general
- Characterized by high acoustic performance, excellent design and compact dimensions
- IP55 protection, suitable for outdoor use
- 2 x 5" (130 mm) diameter extended range twin-cone loudspeaker
- Equipped with aluminium "U" bracket. Body in ABS grey RAL 7035 with metal grill

SPECIFICATIONS

SPECIFICATIONS	BD 42
POWER SELECTION	12 - 6 W (100 V)
CONSTANT VOLTAGE	100 V
FREQUENCY RESPONSE	130 ÷ 15 kHz (-10dB)
SENSITIVITY (1 m / 1 W)	91 dB
MAX SPL	102 dB (1 m / POWER MAX)
COVERAGE ANGLE	130° (per singolo doppiatore)

CS 6520EN

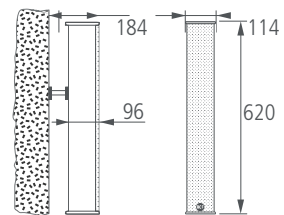
COLUMN SPEAKER TWO-WAY

p/n 131.33.079



4'200 g

↕ mm



- Ideal for speech reproduction with high intelligibility in acoustically difficult environments, both indoors and outdoors, also suitable for music
- Music power/RMS: 40/20W
- Four 3" mid-woofer speakers and one central 20mm tweeter
- Weather-resistant construction IP 66 for use also outdoors, sturdy hinged support in resin, stainless steel fasteners
- Body in aluminium and front grille in steel bake-painted RAL 9003 White
- Articulated support for wall mounting included

SPECIFICATIONS

POWER SELECTION	20 - 10 - 5 - 2.5 - 1.25 W (100 V)
CONSTANT VOLTAGE	100 V, 70 V
FREQUENCY RESPONSE	140 ÷ 20 kHz (-10dB)
SENSITIVITY (1 m / 1 W)	93 dB
MAX SPL	105 dB (1 m)
COVERAGE ANGLE	185° (ORIZ.); 47° (VERT.)

CS 6520EN

POWER SELECTION	20 - 10 - 5 - 2.5 - 1.25 W (100 V)
CONSTANT VOLTAGE	100 V, 70 V
FREQUENCY RESPONSE	140 ÷ 20 kHz (-10dB)
SENSITIVITY (1 m / 1 W)	93 dB
MAX SPL	105 dB (1 m)
COVERAGE ANGLE	185° (ORIZ.); 47° (VERT.)

CS 6940EN

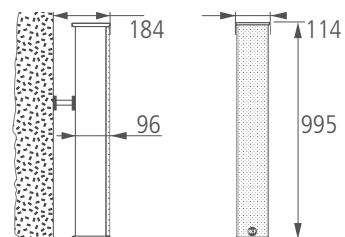
COLUMN SPEAKER TWO-WAY

p/n 131.05.006



7'000 g

↕ mm



- Ideal for speech reproduction with high intelligibility in acoustically difficult environments, both indoors and outdoors, also suitable for music
- RMS power: 40 W
- Eight 3.5" mid-woofer speakers and one central 0.79" voice coil tweeter
- Weather-resistant construction IP 66 for use also outdoors, sturdy hinged support in resin, stainless steel fasteners
- Body in aluminium and front grille in steel bake-painted RAL 9003 White
- Articulated support for wall mounting included

SPECIFICATIONS

POWER SELECTION	40 - 20 - 10 - 5 - 2.5 W (100 V)
CONSTANT VOLTAGE	100 V, 70 V
FREQUENCY RESPONSE	140 ÷ 20 kHz (-10dB)
SENSITIVITY (1 m / 1 W)	95 dB
MAX SPL	109 dB (1 m)
COVERAGE ANGLE	194° (ORIZZONTALE); 30° (VERTICALE)

CS 6940EN

POWER SELECTION	40 - 20 - 10 - 5 - 2.5 W (100 V)
CONSTANT VOLTAGE	100 V, 70 V
FREQUENCY RESPONSE	140 ÷ 20 kHz (-10dB)
SENSITIVITY (1 m / 1 W)	95 dB
MAX SPL	109 dB (1 m)
COVERAGE ANGLE	194° (ORIZZONTALE); 30° (VERTICALE)

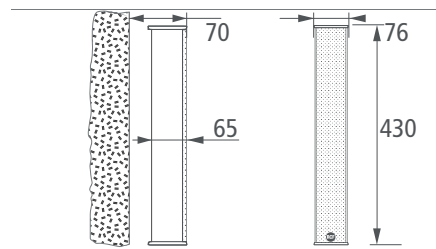
CS 3041

COLUMN SPEAKER SLIM LINE



p/n 130.00.231

1'710 g
mm



- Ideal for speech reproduction, shape designed to enable corner installation
- Music power/RMS: 30/15W
- Four 2" diameter extended range speakers and one tweeter 1"
- Body in extruded aluminium bake-painted RAL 9016 White and front metal grille RAL9016 White, includes accessory for wall mounting
- Built-in multi-tapped transformer (15 - 10 - 5 W) for 100 V constant voltage connection
- 16-ohm input that can be selected on the terminal block
- Audio connection on screw terminal block

SPECIFICATIONS

POWER SELECTION	20 W - 15 W - 10 W
CONSTANT VOLTAGE	100 V
FREQUENCY RESPONCE	200 - 18 kHz
SENSITIVITY (1 m / 1 W)	89 dB
MAX SPL	102 dB (1 m / POWER MAX)
COVERAGE ANGLE	180° (HORIZ.); 70° (VERT.)

CS 3041

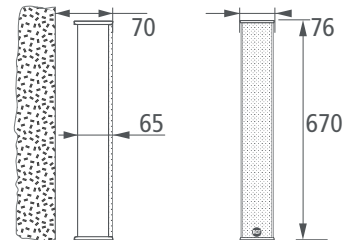
CS 3082

COLUMN SPEAKER SLIM LINE



p/n 130.00.232

2'700 g
mm



- Ideal for speech reproduction, shape designed to enable corner installation
- Music power/RMS: 60/30W
- Eight 2" diameter extended range speakers and two tweeter 1"
- Body in extruded aluminium bake-painted RAL 9016 White and front metal grille RAL 9016 White, includes accessory for wall mounting
- Built-in multi-tapped transformer (30 - 20 - 10 W) for 100 V constant voltage connection
- 16-ohm input that can be selected on the terminal block
- Audio connection on screw terminal block

SPECIFICATIONS

POWER SELECTION	30 W - 20 W - 10 W
CONSTANT VOLTAGE	100 V
FREQUENCY RESPONCE	200 - 20 kHz
SENSITIVITY (1 m / 1 W)	91 dB
MAX SPL	106 dB (1 m / POWER MAX)
COVERAGE ANGLE	180° (HORIZ.); 30° (VERT.)

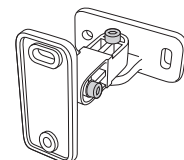
CS 3082

AC WM-CS

COUPLE OF SWIVEL BRACKETS

p/n 133.60.206

- Swivel brackets for the installation of CS 3041 and CS 3082 speakers



MR 52EN B MR 52EN W

2 WAYS BASS REFLEX MONITOR SPEAKERS

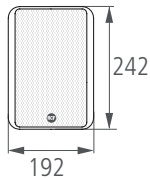
■ MR 52 Black p/n 131.00.011

□ MR 55 White p/n 131.00.010



- Speaker for transmitting alarm voice messages with high intelligibility and background music
- Power (selectable) at 100V: 30W - 15W - 7.5W - 3.75W
- 5" woofer and 1" tweeter
- Cabinet made of flameproof ABS and steel grille, terminal strip in ceramic material for connecting input and output cables, thermal fuse, suitable internal wiring
- Available both in black and white

3'000 g
↕ mm



SPECIFICATIONS

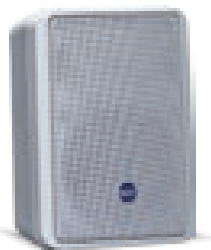
SPECIFICATIONS	MR 52EN
POWER SELECTION	30 - 15 - 7.5 - 3.75 W (100 V)
CONSTANT VOLTAGE	8 Ω
FREQUENCY RESPONSE	80 ÷ 20 kHz (-10dB)
SENSITIVITY (1 m / 1 W)	89 dB
MAX SPL	103 dB (1 m)
COVERAGE ANGLE	180°

MR 33T MR 33T W

2 WAYS REFLEX SPEAKER 40 W WITH TRANSFORMER

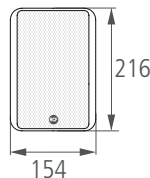
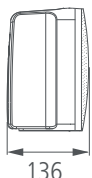
■ MR 33T Black p/n 131.00.012

□ MR 33WT White p/n 131.00.013



- Ideal for high quality paging and music reproduction
- Low impedance (4Ω - 40W) or 100V operating mode
- Woofer with carbon fiber cone
- 0.5" tweeter in Mylar on constant directivity horn
- Built-in low inductance passive crossover, bass reflex @150Hz
- Orientable mounting accessory included
- Body in self-extinguishing composite material, UV resistant
- MR 33T: Colour RAL 9005 black

2'140 g
↕ mm



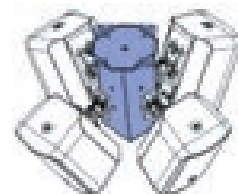
SPECIFICATIONS

SPECIFICATIONS	MR 33T
POWER SELECTION	20 - 10 - 5 - 2,5 - 1 W (100 V)
CONSTANT VOLTAGE	100 V, 70 V, 50 V, 25 V
FREQUENCY RESPONSE	100 ÷ 20 kHz (-10dB)
SENSITIVITY (1 m / 1 W)	88 dB
MAX SPL	105 dB (1 m)
COVERAGE ANGLE	100° (HORIZONTAL); 110° (VERTICAL)

MA 4X ACCESSORIES

p/n 133.60.009

Wall mounting bracket for up to 4 Monitor Series cabinets models MR 33T - MR 44T - MR 55 in cluster installations.



MR 44T MR 44T W

2 WAY REFLEX SPEAKERS 60 W WITH TRANSFORMER

■ MR 44T Black p/n 131.00.014

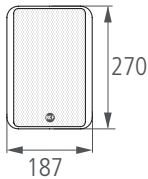
□ MR 44T White p/n 131.00.015



- Ideal for high quality paging and music reproduction
- Low impedance (4Ω - 60W) or 100V operating mode
- Transducers LF 5" - HF 0.5" constant directivity tweeter
- Built-in low inductance passive crossover with high frequency dynamic protection, bass reflex @65Hz
- Body in self-extinguishing plastic
- Includes hinged support for installation

3'730 g

↕ mm



SPECIFICATIONS

MR 44T

POWER SELECTION	40 - 30 - 20 - 10 - 5 W (100 V)
CONSTANT VOLTAGE	100 V, 70 V, 50 V, 25 V
FREQUENCY RESPONSE	60 ÷ 23 kHz (-10dB)
SENSITIVITY (1 m / 1 W)	87 dB
MAX SPL	108 dB (1 m)
COVERAGE ANGLE	110°

MR 55 MR 55 W

2 WAY REFLEX SPEAKER HIGH DEFINITION

■ MR 55 Black p/n 131.00.016

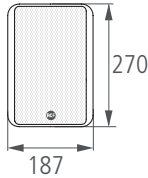
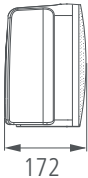
□ MR 55 White p/n 131.00.017



- Ideal for high quality paging and music reproduction
- Transducers LF 5" - HF 0.75" constant directivity tweeter
- Built-in low inductance passive crossover with high frequency dynamic protection
- Bass reflex tuned at 65Hz
- Body in self-extinguishing plastic
- Includes hinged support for installation

3'900 g

↕ mm



SPECIFICATIONS

MR 55

POWER SELECTION	175 W (IEC268-1)
CONSTANT VOLTAGE	4 Ω
FREQUENCY RESPONSE	55 ÷ 25 kHz (-10dB)
SENSITIVITY (1 m / 1 W)	87 dB
MAX SPL	110 dB (1 m)
COVERAGE ANGLE	110°

MA 3B - MA 3W

WALL MOUNT BRACKET

■ MA 3B Black p/n 133.60.367
□ MA 3W White p/n 133.60.368

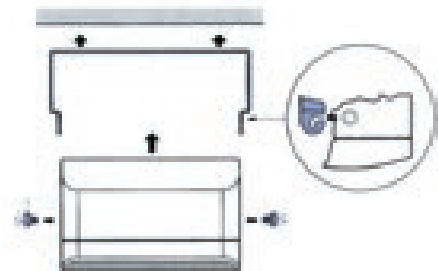
Bracket for mounting one MR 33T speaker on the wall

MA 5B - MA 5W

WALL MOUNT BRACKET

■ MA 5B Black p/n 133.60.369
□ MA 5W White p/n 133.60.370

Bracket for mounting one Monitor 44T or 55 series speaker on the wall



MQ 100L W

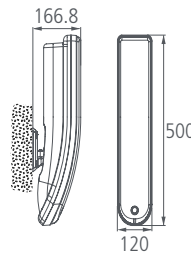
MQ 100L B

3 WAY COLUMN LOUDSPEAKER

- Bianco
p/n 130.00.187
- Nero
p/n 130.00.186



3'000 g
↕ mm



- 3 way column array speaker system providing natural high intelligibility hi-fidelity sound of both speech and music
- Body is made of self-extinguishing (HB level) high density polystyrene
- The wide horizontal coverage angle (180°) and the 60° asymmetrical vertical dispersion allow the correct sound reproduction and feedback reduction
- MQ 100L is equipped with: 2 rubber surround 3.5" woofers, 2 fabric surround 3.5" mid-woofers, 2 cloth coated 0.75" dome tweeters
- Mounting accessories are included. These have been studied to keep the column as close as possible to the wall and simplify its installation
- The pre-oriented vertical acoustic axis allows to cover already the majority of the installations.
- Provided with accessories to orient the speaker down of extra 5° and 10°
- Built-in multi-tapped transformer (40 - 20 - 10 - 5 W) for 100 V constant voltage connection
- 16-ohm input that can be selected by switch with MAX power 60 W

SPECIFICATIONS

POWER SELECTION

CONSTANT VOLTAGE

FREQUENCY RESPONSE

SENSITIVITY (1 m / 1 W)

MAX SPL

COVERAGE ANGLE

MQ 100L-W - MQ 100L-B

40 - 20 - 10 - 5 W (100 V)

100 V, 70 V

130 - 20 kHz (-10dB)

93 dB

112 dB (1 m / POWER MAX)

180° (HORIZONTAL); 60° (VERTICAL)

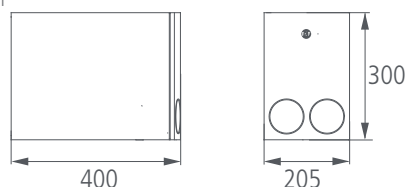
MQ 90S B

COMPACT SUBWOOFER

p/n 130.00.097



8'000 g
↕ mm



- Compact band-pass 8" subwoofer, especially designed to be used with MonitorQ series speakers
- Well suitable also for other RCF speakers such as PL40, PL6X, DU 100X, DP 2X
- The cabinet material is PVC covered with a scratch resistant surface and Painted Front Medium density
- Built-in multi-tapped transformer (60 - 30 - 7.5 W) for 100 V constant voltage connection
- 16-ohm input that can be selected by switch with MAX power 160 W / 80 W Bypass
- Internal Crossover filter at 200 Hz frequency 12 dB/oct
- As the subwoofer range is non-directional, the unit can be installed in a semi-hidden position
- Connection through a removable Euroblock plug that allows the parallel connection of other loudspeakers.

SPECIFICATIONS

POWER SELECTION

CONSTANT VOLTAGE

FREQUENCY RESPONSE

SENSITIVITY (1 m / 1 W)

MAX SPL

COVERAGE ANGLE

MQ 90S B

60 - 30 - 15 - 7.5 W (100 V)

100 V, 70 V

70 - 200 Hz (-10dB)

89 dB

107 dB (1 m / POWER MAX)

EUROBLOCK



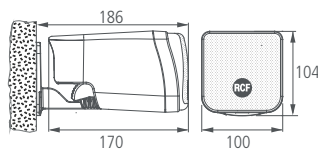
MQ 30P W MQ 30P B

2 WAY MINIATURE SPEAKER

- White
p/n 130.00.058
- Black
p/n 130.00.068



1'100 g
↕ mm



- Orientable mini-speaker firhigh quality reproduction
- Two way coaxial speaker: LF 3,5" - tweeter 0,75" dome
- Power/RMS: 24/12 W Bypass
- Constant voltage: 70,7 - 100 V
- Impedance: [Bypass] 16 Ω
- Crossover frequencies: 5400 Hz, 6/6 dB/oct
- Built-in High-Pass fi lter at 150 Hz for integration with a subwoofer
- Cabinet: Hi-density polystyrene HB grade
- Connectors: Euroblock, removable for easy installation

SPECIFICATIONS

POWER SELECTION

CONSTANT VOLTAGE

FREQUENCY RESPONSE

SENSITIVITY (1 m / 1 W)

MAX SPL

COVERAGE ANGLE

MQ 30P

12 - 6 W (100 V)

100 V, 70 V

150 ÷ 20 kHz (-10dB)

88 dB

102 dB (1 m)

120°

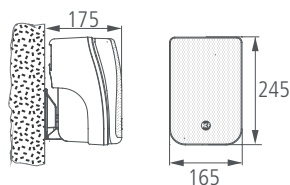
MQ 50 W MQ 50 B

2 WAY COMPACT SPEAKER

- White
p/n 130.00.056
- Black
p/n 130.00.070



2'600 g
↕ mm



- Two way Bass refl ex speaker for music reproduction
- Speaker: woofer 5" - tweeter 0,75" dome
- Power/RMS: 120/60 W Bypass
- Impedance: [Bypass] 16 Ω
- Crossover frequencies: 4500 Hz, 12/12 dB/oct
- Protection: Dynamic on woofer and tweeter
- Cabinet: Hi-density polystyrene HB grade
- Connectors: Euroblock, removable for easy installation

SPECIFICATIONS

POWER SELECTION

CONSTANT VOLTAGE

FREQUENCY RESPONSE

SENSITIVITY (1 m / 1 W)

MAX SPL

COVERAGE ANGLE

MQ 50

30 - 20 - 10 - 5 W (100 V)

100 V, 70 V

70 ÷ 20 kHz (-10dB)

89 dB

110 dB (1 m)

120° (HORIZONTAL); 100° (VERTICAL)

MQ 50C W

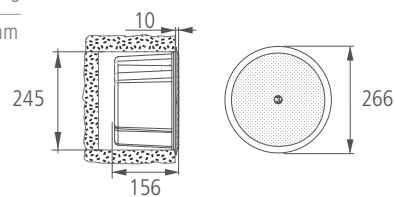
2 WAY CEILING SPEAKER

□ White
p/n 130.00.081



2'200 g

↕ mm



- Compact design, light weight and limited depth makes the RCF MQ50C 2-way ceiling monitor loudspeakers ideal for use in any PA systems and background/ foreground music systems where the good sound is required.
- Speaker: woofer 5" neodymium magnet tweeter 1" dome neodymium magnet
- Power/RMS: 120/60W Bypass
- Impedance: [Bypass] 16 Ω
- [70,7V]: 15W - 10W - 5W - 2.5 W
- Crossover frequencies: 3000 Hz, 12/12 dB/oct - High pass filter at 150 Hz
- Angle of coverage: 120° horizontal x 120° vertical
- Cabinet: Plastic material self-extinguishing, Tuned Alu-dome

SPECIFICATIONS

POWER SELECTION

CONSTANT VOLTAGE

FREQUENCY RESPONSE

SENSITIVITY (1 m / 1 W)

MAX SPL

COVERAGE ANGLE

MQ 50C

30 - 20 - 10 - 5 W (100 V)

100 V, 70 V

70 ÷ 20 kHz (-10dB)

91 dB

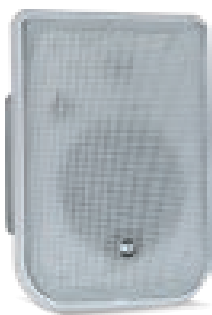
112 dB (1 m)

120°

MQ 50i W

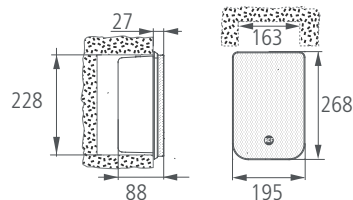
2 WAY IN WALL SPEAKER

□ White
p/n 130.00.139



3'000 g

↕ mm



- In-wall speaker system for music reproduction
- Two way bass reflex construction for flush mount
- Speaker: woofer 5" neodymium magnet tweeter 0.75" dome tweeter
- Power: max. 60W (bypass)
- Impedance: [Bypass] 16 Ω
- [70,7V]: 15W - 10W - 5W - 2.5 W
- Crossover frequency: 3000 Hz, 12/12 dB/oct
- Cabinet: Plastic material self-extinguishing, Tuned Alu-dome
- Connectors: Euroblock
- Suitable for standard Multibox enclosure, 2 modules

SPECIFICATIONS

POWER SELECTION

CONSTANT VOLTAGE

FREQUENCY RESPONSE

SENSITIVITY (1 m / 1 W)

MAX SPL

COVERAGE ANGLE

MQ 50i

30 - 20 - 10 - 5 W (100 V)

100 V, 70 V

180 ÷ 20 kHz (-10dB)

90 dB

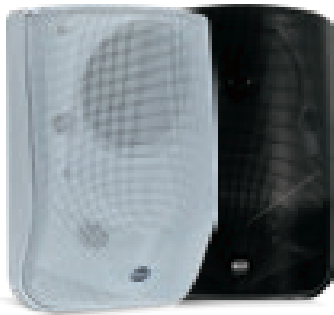
108 dB (1 m)

120° (HORIZONTAL); 100° (VERTICAL)

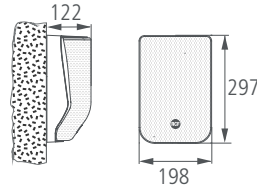
MQ 60H W
MQ 60H B

2 WAY WALL MOUNT SPEAKER

- White p/n 130.00.060
- Black p/n 130.00.072



2'800 g
↕ mm



- The MQ 60H is a wall mount monitor speaker designed to guarantee uniform coverage of a large area in order to limit the number of speakers and therefore the installation points.
- Two way Bass reflex speaker for music reproduction
- Speaker composed by 5" woofer 5" and 2 x 1" dome tweeter
- Max output power 120 W
- Bypass configuration input 16 Ω, output power 60 W RMS
- 30W - 20W - 10W - 5W output power for 100 V line
- 15W - 10W - 5W - 2,5W output power for 70 V line
- 2600 Hz crossover frequencies with attenuation 12/12 dB/oct
- Dynamic Protection on woofer and tweeter

SPECIFICATIONS

POWER SELECTION	30 - 20 - 10 - 5W (100 V)
CONSTANT VOLTAGE	100 V, 70 V
FREQUENCY RESPONSE	100 ÷ 19 kHz (-10dB)
SENSITIVITY (1 m / 1 W)	88 dB
MAX SPL	109 dB (1 m)
COVERAGE ANGLE	180° (HORIZONTAL); 100° (VERTICAL)

MQ 60H

POWER SELECTION	30 - 20 - 10 - 5W (100 V)
CONSTANT VOLTAGE	100 V, 70 V
FREQUENCY RESPONSE	100 ÷ 19 kHz (-10dB)
SENSITIVITY (1 m / 1 W)	88 dB
MAX SPL	109 dB (1 m)
COVERAGE ANGLE	180° (HORIZONTAL); 100° (VERTICAL)

MQ 60H Link W
MQ 60H Link B

ACCESSORIES



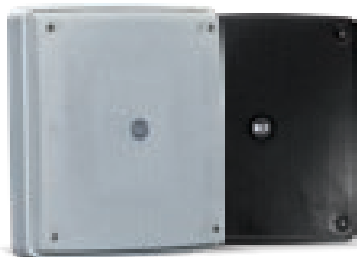
- White p/n 133.60.080
- Black p/n 133.60.081

- AC MQ 60H LINK accessories, available in black or White can be used to support 2 MQ 60H speakers to form an omni directional high quality speaker array (360°) dispersion over a horizontal surface which is controlled over a vertical surface.
- MQ 60H Link is made in fibre-glass loaded nylon and it is provided with the slide-insupports for the direct mounting of the two MQ 60H speaker systems.
- Central fixing ring for the safe suspension of the speaker assembly through a chain or a steel-wire.

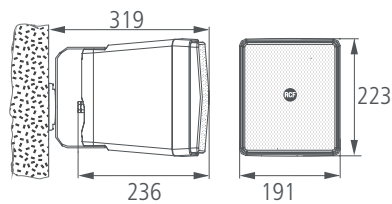
MQ 80P W
MQ 80P B

2 WAY INDOOR OUTDOOR SPEAKER

- White p/n 130.00.096
- Black p/n 130.00.094



3'000 g
↕ mm



- Speaker: woofer 5" horn-loaded, 1" horn-loaded compression driver with phase-plug loaded on CD horn
- Power/RMS: 120/60 W Bypass
- Impedance: [Bypass] 8 Ω
- [70,7V]: 15W - 10W - 5W - 2,5W
- Tuning frequency: 100 Hz
- Crossover frequency: 3000 Hz Crossover: Notch/6 dB/oct
- Cabinet: self-extinguishing high-density polystyrene, UV stabilized
- IP 55, suitable for outdoor use
- Suitable for cluster installation (2x, 3x) for a wide and uniform coverage

SPECIFICATIONS

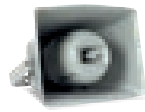
POWER SELECTION	30 - 20 - 10 - 5 W (100 V)
CONSTANT VOLTAGE	100 V, 70 V
FREQUENCY RESPONSE	100 ÷ 20 kHz (-10dB)
SENSITIVITY (1 m / 1 W)	94 dB
MAX SPL	114 dB (1 m)
COVERAGE ANGLE	90° (HORIZONTAL); 60° (VERTICAL)

MQ 80P

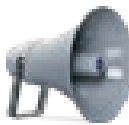
POWER SELECTION	30 - 20 - 10 - 5 W (100 V)
CONSTANT VOLTAGE	100 V, 70 V
FREQUENCY RESPONSE	100 ÷ 20 kHz (-10dB)
SENSITIVITY (1 m / 1 W)	94 dB
MAX SPL	114 dB (1 m)
COVERAGE ANGLE	90° (HORIZONTAL); 60° (VERTICAL)

HORN SPEAKERS

Designed to be weather resistant and to withstand high sound pressure levels outdoor or in large environments.



MODEL	HD 21EN	HD 31EN	MH 61EN	HD 6045EN	HD 1110
TYPE	Round	Round	Rectangular	Rectangular	Round
MATERIAL	ABS	ABS	ABS	Fiberglass	ABS
SPEAKER	1.5" Comp. Driver	1.5" Comp. Driver	1.5" C. Driver + 6.5" Woofer	2" Comp. Driver	1.5" Comp. Driver
POWER NOM. / PROGRAM	30 W RMS	30 W RMS	60 W RMS	200 W RMS / 300 W	20 W RMS / 30 W
INPUT	100 V - 70 V	100 V - 70 V	100 V - 70 V	100 V - 70 V - 25 V	8 Ω
FREQUENCY RESPONSE	340 Hz ÷ 9 kHz	410 Hz ÷ 10 kHz	100 Hz ÷ 20 kHz	200 Hz ÷ 10 kHz	900 Hz ÷ 13 kHz
MAX. SOUND PRESSURE	117 dB	115 dB	115 dB	124 dB	114 dB
ANGLE OF COVERAGE	135°	95°	70° (Horiz) 90° (Ver)	60° (Horiz) 50° (Ver)	175°
PROTECTION / CONFORMS	IP 66, EN 54-24	IP 66, EN 54-24	IP 66, EN 54-24	IP 65, EN 54-24	IP 65



MODEL	HD 210TY	HD 310T	HD 410T	HD 3216	HD 3216T
TYPE	Round	Round	Round	Rectangular	Rectangular
MATERIAL	Aluminium	Aluminium	Aluminium	ABS	ABS
SPEAKER	1.3" Comp. Driver	1.5" Comp. Driver	2" Comp. Driver	1.5" Comp. Driver	1.5" Comp. Driver
POWER NOM. / PROGRAM	20 W RMS	30 W RMS	50 W RMS	25 W RMS	25 W RMS
INPUT	100 V - 70 V	100 V - 70 V	100 V - 70 V	8 Ω	100 V - 70 V
FREQUENCY RESPONSE	300 Hz ÷ 9 kHz	240 Hz ÷ 10 kHz	180 Hz ÷ 7 kHz	250 Hz ÷ 10 kHz	250 Hz ÷ 10 kHz
MAX. SOUND PRESSURE	123 dB	123 dB	130 dB	122 dB	122 dB
ANGLE OF COVERAGE	70°	80°	90°	130° (Horiz) 60° (Ver)	130° (Horiz) 60° (Ver)
PROTECTION / CONFORMS	IP 66	IP 66	IP 66	IP 66	IP 66

HD 21EN

PLASTIC HORN SPEAKER WITH DRIVER



2'000 g

↕ Ø 211 x 280 mm

p/n 131.33.075

CERTIFIED EN 54-24 CE
CPR: 1488-CPR-0652/W

- Compact speaker with 30W driver
- Rear cover in UV stabilised self-extinguishing ABS
- Suitable for indoor and outdoor use (thanks to IP 66 protection)
- Transformer for 100 V (/ 70 V) constant voltage connection
- Thermal fuse to protect the audio line from heat
- Ceramic terminals for linking input and output cable
- Swiveling bracket included
- Color: light gray

SPECIFICATIONS	HD 21EN
POWER SELECTION	30 - 15 - 7,5 - 3,75 W (100 V)
CONSTANT VOLTAGE	100 V; 70V
FREQUENCY RESPONSE	340 Hz ÷ 9 kHz
SENSITIVITY (1 m / 1 W)	104 dB
MAX SPL	117 dB
COVERAGE ANGLE	135°

HD 31EN

PLASTIC HORN SPEAKER



2'010 g

↕ Ø 233 x 325 mm

p/n 131.00.004

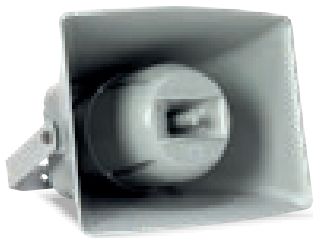
CERTIFIED EN 54-24 CE
CPR: 1488-CPR-0584/W

- Horn speaker with 30W driver
- UV stabilized self-extinguishing ABS body
- Suitable for indoor and outdoor use (thanks to IP 66 protection)
- Transformer for 100 V (/ 70 V) constant voltage connection
- Ceramic terminals for input and output cables connection
- Internal power selection and thermal fuse to protect the audio line from heat
- Colour grey RAL 7035

SPECIFICATIONS	HD 31EN
POWER SELECTION	30 - 15 - 7.5 - 3.75 W
CONSTANT VOLTAGE	100 V; 70V
FREQUENCY RESPONSE	410 ÷ 10 kHz
SENSITIVITY (1 m / 1 W)	98 dB
MAX SPL	115 dB
COVERAGE ANGLE	95°

MH 61EN

2 WAY PLASTIC HORN SPEAKER



7'000 g

↕ 332 x 418 x 391 mm

p/n 131.00.042

CERTIFIED EN 54-24 CE
CPR: 1488-CPR-0672/W

- Compact 2-way horn speaker with 60 W RMS power
- Rear cover in UV stabilised self-extinguishing ABS
- Suitable for indoor and outdoor use (thanks to IP 66 protection)
- Transformer for 100 V (/ 70 V) constant voltage connection
- Thermal fuse to protect the audio line from heat
- Colour grey RAL 7035

SPECIFICATIONS	MH 61EN
POWER SELECTION	30 - 15 - 7.5 W
CONSTANT VOLTAGE	100 V; 70V
FREQUENCY RESPONSE	100 ÷ 20 kHz
SENSITIVITY (1 m / 1 W)	99 dB
MAX SPL	115 dB
COVERAGE ANGLE	70° (HORIZONTAL); 90° (VERTICAL)

HD 6045EN

LONG-THROW MULTI CELL HORN SPEAKER



10.500 g

↕ 620 x 475 x 564 mm

p/n 131.33.085

CERTIFIED EN 54-24 CE
CPR: 0068-CPR-030/2015

- Long-throw horn speaker
- Body in RAL 9003 white fiberglass
- Mounting bracket
- Mounting bracket Protection grade IP 65
- 4 x 50W drivers with transformers for constant voltage line.

SPECIFICATIONS	HD 6045EN
POWER SELECTION	200 W (100 W con linea 70 V)
CONSTANT VOLTAGE	100 V (/ 70 V)
FREQUENCY RESPONSE	200 Hz ÷ 10 kHz (-10 dB)
SENSITIVITY (1 m / 1 W)	101 dB SPL
MAX SPL	124 dB
COVERAGE ANGLE	60° (HORIZONTAL); 50° (VERTICAL)

HD 1110

PLASTIC HORN SPEAKER WITH DRIVER

p/n 131.33.030

420 g

↕ Ø 93 x 110 mm



- For alarm and paging systems in places with a high level of background noise
- High-pass filter for protection of the driver against low frequencies out of range
- Body in plastic, RAL 7035 grey
- Suitable for outdoor use
- Attachment steel bracket included

SPECIFICATIONS

HD 1110

POWER SELECTION	20 W RMS - 30 W MAX
CONSTANT VOLTAGE	8 Ω
FREQUENCY RESPONSE	900 ÷ 13 kHz (-10dB)
SENSITIVITY (1 m / 1 W)	101 dB
MAX SPL	114 dB (1 m)
COVERAGE ANGLE	175°

HD 210TY

ALUMINIUM HORN SPEAKER WITH DRIVER

p/n 131.00.018

2410 g

↕ Ø 210 x 290 mm



- Compact speaker with high directivity and efficiency for intelligible speech reproduction
- IP 66 double insulation construction, suitable for outdoor use for temperature between -25°C and +70°C
- High-pass filter for protection of the driver against low frequencies out of range
- Driver impedance 8 Ω
- Rear cover in UV stabilised self-extinguishing ABS, RAL 7035 grey
- Stainless steel attachment bracket included

SPECIFICATIONS

HD 210TY

POWER SELECTION	20 - 10 - 5 - 2,5 W (100 V)
CONSTANT VOLTAGE	100 V; 70 V
FREQUENCY RESPONSE	300 ÷ 9 kHz (-10dB)
SENSITIVITY (1 m / 1 W)	108 dB
MAX SPL	123 dB (1 m)
COVERAGE ANGLE	70°

HD 310T

ALUMINIUM HORN SPEAKER WITH DRIVER

p/n 131.30.001

3100 g

↕ Ø 310 x 315 mm



- High efficiency speaker ideal for speech reproduction
- Weather-resistant construction IP 66 Rating, suitable for outdoor use for temperatures between -25°C and +70°C
- High-pass filter for protection of the driver against low frequencies out of range
- Driver impedance 8 Ω
- Stainless steel attachment bracket included
- Rear cover in UV stabilised self-extinguishing ABS, RAL 7035 grey

SPECIFICATIONS

HD 310T

POWER SELECTION	30 - 20 - 15 - 10 - 5 - 2.5 W (100 V)
CONSTANT VOLTAGE	100 V; 70 V
FREQUENCY RESPONSE	240 ÷ 10 kHz (-10dB)
SENSITIVITY (1 m / 1 W)	108 dB
MAX SPL	123 dB (1 m)
COVERAGE ANGLE	80°

HD 410T

p/n 131.33.041

ALUMINIUM HORN SPEAKER WITH DRIVER AND TRANSFORMER

3'570 g

↕ Ø 430 x 393 mm



- High efficiency speaker ideal for speech reproduction
- Weather-resistant construction IP 66 Rating, suitable for outdoor use for temperatures between -25°C and +70°C
- High-pass filter for protection of the driver against low frequencies out of range
- Driver impedance 16 Ω
- Stainless steel attachment bracket included
- Rear cover in UV stabilised self-extinguishing ABS, RAL 7035 grey

SPECIFICATIONS

HD 410T

POWER SELECTION	50 - 30 - 25 - 15 - 7.5 W (100 V)
CONSTANT VOLTAGE	100 V; 70 V
FREQUENCY RESPONSE	180 ÷ 7 kHz (-10dB)
SENSITIVITY (1 m / 1 W)	112 dB
MAX SPL	130 dB (1 m)
COVERAGE ANGLE	90°

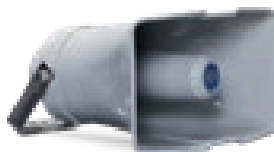
HD 3216

PLASTIC HORN SPEAKER WITH DRIVER

p/n 131.33.039

1'450 g

↕ 315x 170 x 295 mm



- IP 66 double isolation; for temperatures between -25°C and + 70°C
- UV-stabilized autoextinguishing UL-HB ABS plastic.
- Hi-pass filter for protecting driver against out-of-range low-freq.
- Color: RAL 7035 (platinum gray)
- Stainless-Steel mounting hardware

SPECIFICATIONS

HD 3216

POWER SELECTION	25 W RMS
CONSTANT VOLTAGE	-
NOMINAL IMPEDANCE	8 Ω
FREQUENCY RESPONSE	250 ÷ 10 kHz (-10dB)
SENSITIVITY (1 m / 1 W)	108 dB
MAX SPL	122 dB (1 m / POT. MAX)
COVERAGE ANGLE	130° (HORIZONTAL); 60° (VERTICAL)

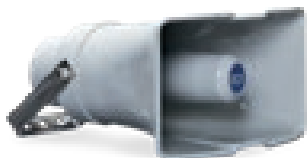
HD 3216T

PLASTIC HORN SPEAKER WITH DRIVER AND TRANSFORMER

p/n 131.33.037

1'870 g

↕ 315x 170 x 322 mm



- Compact speaker with high directivity and efficiency for intelligible speech reproduction
- Driver impedance 8 Ω
- Selector accessible on rear cover
- IP 66 double insulation construction for temperatures between -25°C and +70°C
- High-pass filter for protection of the driver against low frequencies out of range
- Body in UV stabilised self-extinguishing ABS, RAL 7035 grey
- Stainless steel attachment bracket included

SPECIFICATIONS

HD 3216T

POWER SELECTION	25-20-15-10-5 W
CONSTANT VOLTAGE	100 V; 70V
FREQUENCY RESPONSE	250 ÷ 10 kHz
SENSITIVITY (1 m / 1 W)	108 dB
MAX SPL	122 dB
COVERAGE ANGLE	130° (HORIZONTAL); 60° (VERTICAL)

D 5076

DRIVER UNIT

p/n 151.10.017

- Musical power/RMS: 75/50W
- 1 3/8" W - 18 N threaded horn attachment
- Pressure die-cast compression chamber
- Driver impedance 16 Ω
- Dimensions Ø 98 x 75 mm, weight 1.7 Kg
- Optional TD 507 line transformer

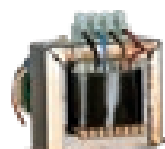


TD 507

50 V MULTI-TAPPED TRANSFORMER

p/n 133.30.006

- 50V Multi-tapped line transformer
- Suitable for connecting the D 5076 driver to 100/70V constant voltage lines
- Output power can be selected from four different values: 50-25-12-6W



ATTENUATORS, AUDIO TRANSFORMERS

- The volume control is made of a control circuit having a 6 position (5 + off) selector and a separated transformer
- Installed on whichever supporting frame for home / office electrical systems by drilling a hole in a blank key and fixing its control circuit
- 3 knobs are included in 3 different colours: white, silver, anthracite
- The maximum depth of the volume control circuits are measured between the inner side of the front panel

TD 10 10 W UNIVERSAL LINE TRANSFORMER

p/n 133.60.045



SPECIFICATIONS	TD 10
OUTPUT POWER 4 Ω	1,2 - 2,5 - 5 - 10 W
OUTPUT POWER 8 Ω	0,6 - 1,2 - 2,5 - 5 - 10 W
FREQUENCY RESPONSE	50÷18'000 Hz
DIMENSIONS	86 x 53 x 59 mm
WEIGHT	500 g

TD 30 30 W UNIVERSAL LINE TRANSFORMER

p/n 133.60.046



SPECIFICATIONS	TD 30
OUTPUT POWER 4 Ω	15 - 30 W
OUTPUT POWER 8 Ω	7,5 - 15 - 30 W
FREQUENCY RESPONSE	50÷18'000 Hz
DIMENSIONS	87 x 53 x 68 mm
WEIGHT	700 g

TD 60 60 W UNIVERSAL LINE TRANSFORMER

p/n 133.60.047



SPECIFICATIONS	TD 60
OUTPUT POWER 4 Ω	15 - 30 - 60 W
OUTPUT POWER 8 Ω	7,5 - 15 - 30 - 60 W
FREQUENCY RESPONSE	50÷18'000 Hz
DIMENSIONS	77 x 77 x 79 mm
WEIGHT	1200 g

TD 120 120 W UNIVERSAL LINE TRANSFORMER

p/n 133.60.048



SPECIFICATIONS	TD 120
OUTPUT POWER 4 Ω	30 - 60 - 120 W
OUTPUT POWER 8 Ω	15 - 30 - 60 - 120 W
FREQUENCY RESPONSE	50÷18'000 Hz
DIMENSIONS	85 x 85 x 90 mm
WEIGHT	1900 g

TD 240 240 W UNIVERSAL LINE TRANSFORMER

p/n 133.60.049



SPECIFICATIONS	TD 240
OUTPUT POWER 4 Ω	60 - 120 - 240 W
OUTPUT POWER 8 Ω	30 - 60 - 120 - 240 W
FREQUENCY RESPONSE	50÷18'000 Hz
DIMENSIONS	98 x 89 x 100 mm
WEIGHT	3100 g

AT 10Z CONSTANT IMPEDANCE ATTENUATOR



- Constant impedance attenuator for speakers with minimum impedance 4 Ω
- Universal mounting on any standard European electrical wall plate.
- 5 selectable positions + OFF volume control

p/n 131.60.032

SPECIFICATIONS	AT 10Z
IN/OUT IMPEDANCE	4 Ω
MAX. POWER	10 W
ATTENUATION	0 dB - 6 dB - 12 dB - 18 dB - 24 dB - OFF
MAX. DEPTH	50 mm

AT 20T 20 W / 100 V TRANSFORMER ATTENUATOR



- Attenuator for constant voltage systems, max 20W
- Universal mounting on any standard European electrical wall plate.
- 5 selectable positions + OFF volume control
- Bypass relay or 3-wire control system for alarm/ evac applications

p/n 131.60.033

SPECIFICATIONS	AT 20T
INPUT VOLTAGE	100 V
MAX. POWER	20 W
ATTENUATION	0 dB - 3 dB - 6 dB - 9 dB - 12 dB - OFF
MAX. DEPTH	50 mm

AT 40T 40 W / 100 V TRANSFORMER ATTENUATOR



- Attenuator for constant voltage systems, max 20W
- Universal mounting on any standard European electrical wall plate.
- 5 selectable positions + OFF volume control
- Bypass relay or 3-wire control system for alarm/ evac applications

p/n 131.60.035

SPECIFICATIONS	AT 40T
INPUT VOLTAGE	100 V
MAX. POWER	40 W
ATTENUATION	0 dB - 3 dB - 6 dB - 9 dB - 12 dB - OFF
MAX. DEPTH	58 mm

CT 61 6 POSITION 1 WAY ROTARY SWITCHER



- 5 selectable position + OFF volume control
- To be used with TL 128 autotransformer
- Bypass relay or 3-wire control system for alarm/evac applications

p/n 131.60.036

SPECIFICATIONS	CT 61
MAX TENSIONE	100 V
MAX. POWER	120 W
MAX. DEPTH	58 mm

TL 128 120 W LINE TRANSFORMER

1'140 g

↗ 68 x 72 x 85 mm



- The TL 128 transformer can be used in audio systems with constant voltage lines (usually 100 or 70V) to regulate the power of one or more acoustic speakers that have line transformers with a combined power of a maximum of 120 W
- It can be combined with a switch (up to 8 positions), in order to form a volume control that fades at 3 dB intervals

p/n 133.60.050

SPECIFICATIONS	TL 128
INPUT VOLTAGE	100 - 70 - 50 - 35 - 25 - 18 - 12 V
MAX. POWER	120 W
MINIMUM LOAD IMPEDANCE	83,3 - 41,7 - 20,8 - 10,4 - 5,2 - 2,6 - 1,3 Ω
FREQUENCY RESPONSE	60 ; 18.000 Hz (± 3 dB)

CP 52 5 POSITION 2 WAY ROTARY SWITCHER



- 5 Line selector for 100V system, load max 120W
- Bypass relay for emergency calls on line 1

p/n 131.60.034

SPECIFICATIONS	CP 52
MAX TENSIONE D'INGRESSO/USCITA	100 V
MAX. POWER	120 W
MAX. DEPTH	58 mm

RACK COMPONENTS

For the optimum management of the system configurations



MODEL	CR 2609	CR 2615	CR 2615 FV	CR 2628	CR 2642
Part number	17170179	17170080	17170129	17170081	17170082
Type	9 U	15 U	15 U	28 U	42 U
Base dimensions	600 x 500 mm	600 x 600 mm	600 x 600 mm	600 x 600 mm	600 x 600 mm
Height	470 mm	800 mm	800 mm	1600 mm	2000 mm
Weight	24 Kg	26 Kg	30 Kg	54 Kg	68 Kg
Max load	25 Kg mountable on rack	105 Kg	100 Kg	320 Kg	350 Kg
Ventilation system	Natural ventilation on sides	-	Thermostat controlled	Thermostat controlled	Thermostat controlled
Thermal dissipation 25 °c	100 W	230 W	3130 W	3280 W	3320 W
Thermal dissipation 35 °c	150 W	140 W	2070 W	2160 W	2180 W
Included accessories	-	4 wheels with braking system	4 wheels with braking system	-	-
Model door	(included)	AK 2615V	AK 2615V	AK 2628V	AK 2642V
Part number door	-	-17100008	-17100008	-17100009	-17100010

CR 2609

p/n 171.70.179

9 UNITS RACK ENCLOSURE STANDARD
19" WITH TRANSPARENT DOOR



- Steel constructed structure
- Glass front door
- Removable rear panel
- Equipped assembled
- Dimensions: (B x P x H) 600 x 500 x 470 mm
- Color RAL 7035

CR 2600

RACK ENCLOSURES



- The CR 2600 series rack enclosures are designed to hold all RCF 19" rack standard components.
- They are constructed in compliance with the IEC 297-2 dimensional standard, and the depth is 600 mm for all models.
- The structure is made of steel painted RAL 7035 light grey. The rack enclosures are bake-painted at high temperature using epoxy powders to make the structure unalterable over time and resistant to scratching, abrasion, and atmospheric agents.
- The protection level is IP 30. The CR 2600 SERIES rack enclosures are composed of a basic structure that is assembled simply and quickly by fitting and securing four steel uprights to the upper and lower panels.
- The lower door and side panels are fitted following the wiring operations to facilitate the insertion and connection of the components. The lower panel, which forms the base of the rack, has openings for the passage of external connection cables (speaker lines, power supply, data, etc.) that are sized and shaped to guarantee the electrical safety of the structure. The earthing of the rack complies with current safety regulations.
- For the optimisation of the internal wiring, supports are supplied to gather the cable and attach them in an orderly fashion. The packing materials can be reused for transport the enclosure once it has been wired.
- Front doors are also available, which are useful for to protect the components installed in the rack.

CLOSURE PANELS

PU 1

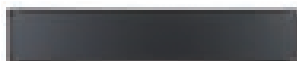
p/n 171.70.145



- 1U Closure Panel
- RAL 9005 Nero

PU 2

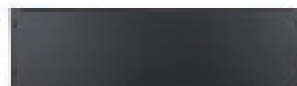
p/n 171.70.146



- 2U Closure Panel
- RAL 9005 Nero

PU 3

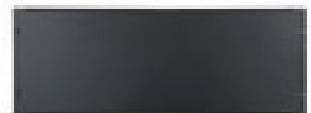
p/n 171.70.147



- 3U Closure Panel
- RAL 9005 Nero

PU 4

p/n 171.70.148



- 4U Closure Panel
- RAL 9005 Nero

PV 2603

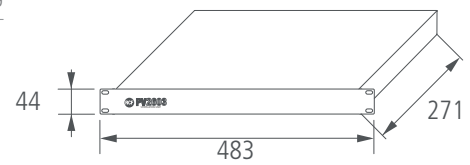
VENTILATION UNIT

p/n 171.70.137



5'000 g

↕ mm



- PV 2603 is a ventilation unit composed by 3 blowers (230 V ac) and a main switch. The blowers turn on due to the activation command of a thermostat included in all RCF CR 2600 rack cabinets series.
- The ventilation unit has an air flow capacity of 500 m³/h
- 9" Rack mounting, 1 unit
- Main switch placed on the rear panel
- Low noise

IM 2220

PORTABLE IMPEDANCE TESTER

p/n 133.60.089



- The IM 2220 is a portable instrument, easy to use for measuring the impedance of the constant voltage speaker lines or of a single loudspeaker.
- The test range is quite wide thanks to the three measure fields (20 Ohm, 200 Ohm, 2000 Ohm). It is suitable for both commercial audio and domestic use.
- The IM 2220 is easy to use, comfortable and safe, thanks to the large control knob, to the large display and the high insulation.
- Meets IEC-1010 (EN 61010); CAT III 100V
- Display 3 1/2 digit LCD
- Data HOLD indication
- Automatic switch-off of the pilot tone after 20s unless the LOCK key is pressed
- Automatic switch-off of the device after 15 minutes without being used

SPECIFICATIONS

IM 2220

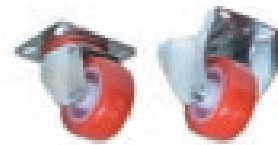
SIGNAL TEST FREQUENCY	1 kHz
ACCURACY	± 2%
OPERATING TEMPERATURE	0 ÷ 40°C (32 ÷ 104 °F)
POWER SUPPLY	9 V c.c (6 x 1.5 V AA, ALKALINE)
DIMENSIONS	168 x 110 x 62 mm
WEIGHT	0,5 Kg

RR 2601

RACK WHEELS KIT

p/n 173.60.038

- Wheels for RCF rack cabinets CR 2628 and CR 2642.
- The kit includes 2 wheels with brake and 2 swivel wheels. Wheel diameter: 80 mm.
- The maximum applicable load does not change when wheels are mounted.



AR 1050

RACK SUPPORTS

p/n 173.60.039



- 1 U accessory for installation in RCF CR2600 series racks

BH 1042

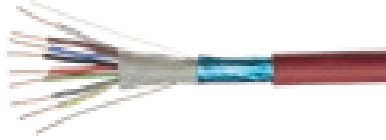
BATTERY HOLDER

p/n 173.60.040



- Universal battery holder for RCF series "CR2600"

CJ 428E | p/n 143.80.021
FIRE RESISTANT DATA CABLE



Fire resistant cables for data with conductor thickness of 0.8 mm shielded. Color of the outer cover Red. Inner conductors colors Yellow, Grey, Blue, Red. Certification VDE 0815, DIN 4102, EN 50200 PH 120, EN 60332-1-2, EN61034-2, FIPEC (EN) Coils of 200 m. The construction process consists in conductors isolation using a layer of silicon rubber. The core is then separated into two twisted pairs together and screens, subsequently the outer sheath is applied with a process of compression seeds.

CV 210 | p/n 143.80.030
CV 215 | p/n 143.80.031
CV 225 | p/n 143.80.032
SPEAKER CABLE 100V



- Number of conductors: 2
- Fire resistant
- Conductors section: 1,0 mm (CV 210), 1,5 mm (CV 215), 2,5 mm (CV 225)

CJ 428CAT | p/n 123.99.047
CAT5 FTP FIRE RESISTANT DATA CABLE



Shielded CAT5 FTP fire resistant cable suitable for the transmission of signals and commands for voice alarm systems, when maximum safety against fire is required. Made of 4 pairs of twisted annealed copper conductors with 0.63sqmm (AWG22) section. For fixed indoor installations in normal or humid environments. Red external sheath. Sold in coils of 200m.

CA 2-2-C | p/n 123.99.043
SPEAKER CABLE



- Shielded bipolar cable

AC 1503 | p/n 133.60.112
CERAMIC TERMINAL WITH THERMAL FUSE



Accessory with ceramic terminal and a thermal fuse to connect a loudspeaker in sound systems for emergency purposes.

CA 2-C | p/n 123.99.042
SPEAKER CABLE



- Shielded bipolar cable

AR 2605 | p/n 173.60.027
FRAME WITH POWER SOCKETS



- 5-socket frame, Schuko and Italian standard, on back-rack support 2U.
- 16A total capacity; cable included
- Portion of Omega bar for installing 5 Omega standard modules

P AER1 | p/n 171.30.149
FRONT VENTILATION PANELS



- 1U for CR 2600 series racks, RAL 9005 black

MOBILE AMPLIFICATION

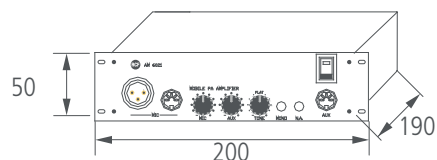
Portable systems for all the situations in which mobility is important.



AM 6020 MOBILE AMPLIFIER

p/n 121.10.012

1'100 g
↕ mm



- 2 unbalanced AUX stereo inputs on DIN connector
- 1 balanced microphone input on DIN connector
- 1 balanced microphone input on XLR connector
- Circuit for automatic attenuation of music in the presence of announcements
- One-tone signal generator 600 Hz (siren)
- Protection against overload and short circuits
- Power supply 12 Vdc or 24 Vdc selectable

SPECIFICATIONS

TYPE

FREQUENCY RESPONSE

POWER CONSUMPTION

NOMINAL POWER

AUDIO INPUT SENSITIVITY

CONNECTORS

AM 6020

MOBILE AMPLIFIER FOR HORN SPEAKERS

150÷6.000 Hz (MIC) 20÷15.000 Hz (AUX)

80 W (24 V cc) - 40 W (12 V cc)

20 + 20 W (24 V cc) 8Ω / 10 + 10 W (12 V cc) 4Ω

50 mV ÷ 5 V RMS

DIN o XLR / 0,7 mV - 2 KΩm (MIC), e DIN (AUX) / 150 mV - 22 KΩm



MG 90

10W MEGAPHONE

p/n 131.33.081



- Extra strong plastic material, highly resistant to dust and humidity
- High intelligibility and speech clarity thanks to the microphone optimization.
- Built-in amplifier and dynamic unit
- Designed to be used even in critical situations
- 500 meters indicative range
- Activating button and volume located on the megaphone grip
- Power supply: 6 "AA" batteries (not included)
- Black body and grip, transparent pavilion

SPECIFICATIONS

MG 90

NOMINAL POWER	10 W
POWER SUPPLY	6 Batteries AA (UM-3) (9V DC)
TIME OF USE	10 ore (talking)
BEAM OF USE	0.45 Km (quiet ambient), 0.25 Km (city)
DIMENSIONS	185 mm / 310 mm (diameter)
WEIGHT	0,9 Kg (without batteries)

**STANDARD VALUES OF SOUND PRESSURE LEVEL FOR
CEILING-MOUNT LOUDSPEAKERS WITH INSTALLATION HEIGHTS OF 3 • 3,5 • 4 M**

p/n	MODEL	INSTALLATION HEIGHT OF LOUDSPEAKERS		
		3,0 METRES	3,5 METRES	4,0 METRES
131.10.062	HS 1026	6 m ²	12 m ²	20 m ²
131.33.045	PL 40	10 m ²	20 m ²	30 m ²
31.33.060	PL 50	12 m ²	24 m ²	36 m ²
131.10.214	PL 60	14 m ²	26 m ²	41 m ²
131.33.042	PL 6X	20 m ²	38 m ²	56 m ²
131.33.043	PL 8X	22 m ²	44 m ²	66 m ²
130.00.081	MQ 50C	25 m ²	47 m ²	73 m ²
131.33.064	DU 50EN	10 m ²	18 m ²	28 m ²
131.33.078	BS 5EN	10 m ²	18 m ²	28 m ²
131.33.065	PL 70EN	16 m ²	30 m ²	46 m ²
131.33.082	PL 68EN	16 m ²	28 m ²	43 m ²
131.00.009	PL 82EN	21 m ²	38 m ²	59 m ²

The values are calculated for environments with average ambient noise and without specific reverberation characteristics.

Especially wide area paging systems that are used as emergency voice alarm communication systems in accordance with ISO 7240-19 may require a calculation of the sound pressure level depending on the effective ambient noise.

Notes

ALPHABETICAL INDEX

ITEM	P/N	PAG.	ITEM	P/N	PAG.	ITEM	P/N	PAG.	ITEM	P/N	PAG.	ITEM	P/N	PAG.
A 1331	133.60.123	57	BM 7608DFM	143.22.014	11	EOL 3-9	171.70.176	13	MP 301	124.01.006	33	PL 8X	131.33.043	52
A 504-N	143.80.014	30	BM 7624D	143.22.018	11	ES 3080	121.35.107	40	MP 302	124.01.007	33	PR 4093	171.00.003	45
A 507	143.10.008	30	BS 2620	131.10.006	54	ES 3160 II	121.35.104	39	MP 321	124.01.008	32	PS 4248	171.00.005	11
A 53	143.80.029	31	BS 5EN	131.33.078	54	ES 3323 II	121.35.105	38	MP 341	124.01.005	33	PS 6648	171.00.006	11
AC 1503	133.60.112	79	BS 8	131.33.054	54	GS 60	131.33.084	57	MQ 100L B	130.00.186	66	PU 1	171.70.145	77
AC 501DK	143.80.035	30	CA 2-2-C	123.99.043	79	HD 1110	131.33.030	72	MQ 100L W	130.00.187	66	PU 2	171.70.146	77
AC 502LC	143.80.034	30	CA 2-C	123.99.042	79	HD 210TY	131.00.018	72	MQ 30P B	130.00.068	67	PU 3	171.70.147	77
AC 503FS	143.80.033	30	CA 5XX	143.40.017	31	HD 21EN	131.33.075	71	MQ 30P W	130.00.058	67	PU 4	171.70.148	77
AC 50B	133.60.038	56	CJ 428E	143.80.021	79	HD 310T	131.30.001	72	MQ 50 B	130.00.070	67	PV 2603	171.70.137	78
AC 7212	171.70.152	9	CJ 428CAT	123.99.047	79	HD 31EN	131.00.004	71	MQ 50C W	130.00.081	68	PX 2106	142.50.009	26
AC AD 2405	143.80.022	31	CP 52	131.60.034	75	HD 3216	131.33.039	73	MQ 50I W	130.00.139	68	PX 4116	142.50.010	27
AC MIC DK	133.60.247	30	CR 2609	171.70.179	76	HD 3216T	131.33.037	73	MQ 50 W	130.00.056	67	QPS 9600	121.35.102	46
AC S50DK	143.80.011	31	CR 2615	171.70.080	76	HD 410T	131.33.041	73	MQ 60H Link	133.60.081	69	RC 2946	133.60.237	17
AC S76FL	143.80.027	31	CR 2615 FV	171.70.129	76	HD 6045EN	131.33.085	71	MQ 60H Link	133.60.080	69	RC 3005	123.99.044	13
AC WM-CS	133.60.206	63	CR 2628	171.70.081	76	HE 2006	141.15.023	26	MQ 60H B	130.00.072	69	RC 62 G	133.60.040	15
AC XLR-3M3F	133.60.102	31	CR 2642	171.70.082	76	HE 2006	141.15.023	27	MQ 60H W	130.00.060	69	RC 62 S	133.60.041	15
AM 1064	121.35.081	44	CS 3041	130.00.231	63	HPS 1500	121.35.055	46	MQ 80P B	130.00.094	69	RC 62 W	133.60.039	15
AM 1125	121.35.082	44	CS 3082	130.00.232	63	HPS 2500	121.35.054	46	MQ 80P W	130.00.096	69	RD 2016	171.70.168	34
AM 2080	121.35.062	40	CS 6520EN	131.33.079	62	HS 1026W	131.10.062	53	MQ 90S B	130.00.097	66	RO 7102	171.70.151	9
AM 2160	121.35.058	41	CS 6940EN	131.05.006	62	IE 3008	123.99.015	13	MR 33T	131.00.012	64	RR 2601	173.60.038	78
AM 2320	121.35.059	41	CT 61	131.60.036	75	IM 2220	133.60.089	78	MR 33WT	131.00.013	64	SI 7120	171.70.153	9
AM 6020	121.10.012	80	CV 210	143.80.030	79	IPS 1700	121.35.089	47	MR 44T	131.00.014	65	SV 7982	171.70.140	10
AR 1050	173.60.039	78	CV 215	143.80.031	79	IPS 2700	121.35.091	47	MR 44WT	131.00.015	65	TD 10	133.60.045	74
AR 1620	173.60.031	31	CV 225	143.80.032	79	IPS 3700	121.35.093	47	MR 52BEN	131.00.011	64	TD 120	133.60.048	74
AR 2605	173.60.027	79	D 5076	151.10.017	73	IPS 700	121.35.087	47	MR 52WEN	131.00.010	64	TD 240	133.60.049	74
AR 3000	133.60.101	38	DEC 6104	171.80.034	20	IT 3010	123.99.049	13	MR 55	131.00.016	65	TD 30	133.60.046	74
AR 3000	133.60.101	39	DM 41	130.00.049	56	IT 4000	133.60.341	30	MR 55W	131.00.017	65	TD 507	133.30.006	73
AT 10Z	131.60.032	75	DM 41-B	130.00.387	56	LI 7903	171.70.141	10	MS 1033	171.70.108	35	TD 60	133.60.047	74
AT 20T	131.60.033	75	DM 61	130.00.050	56	LT 7208EN	171.70.156	9	MS 520	121.35.043	15	TL 128	133.60.050	75
AT 40T	131.60.035	75	DMS 6410	171.80.011	21	MA 3B	133.60.367	65	MT 7308EN	171.70.159	9	TX 2006	142.50.007	26
BD 2412EN	131.33.074	60	DMS 6410X	171.80.011	21	MA 3W	133.60.368	65	MU 7100EN	171.70.157	8	TX 4016	142.50.008	27
BD 42	130.00.247	61	DMU 6100	171.80.010	20	MA 4X	133.60.009	64	MX 3250/2	171.70.177	12	UP 1121	121.35.083	44
BD 5EN	131.33.077	61	DP 1420EN	131.33.071	60	MA 5B	133.60.369	65	MX 3250/4	171.70.183	12	UP 2082	121.35.066	42
BE 2012	143.22.022	17	DP 4	130.00.106	61	MA 5W	133.60.370	65	MX 3250/6	171.70.184	12	UP 2161	121.35.060	42
BE 3806	143.80.036	13	DP 4EN	131.33.076	60	MC 4064	141.15.025	25	MX 3500/2	121.00.009	12	UP 2162	121.35.065	42
BH 1042	173.60.040	78	DP 5EN	131.33.076	61	MC 5002	141.15.026	25	MX 3500/4	121.00.010	12	UP 2321	121.35.061	42
BM 2006	143.22.021	17	DPS 604X	121.00.008	47	MC 5054	141.15.024	25	MX 3500/6	121.00.011	12	UP 4240	121.35.073	44
BM 3001	143.22.008	28	DPS 6202	171.80.033	20	MD 6000-X	141.15.021	24	OT 3500	171.20.056	30	UP 8501	121.35.070	43
BM 3001	143.22.008	39	DTC 6012	171.80.033	21	MD 7600	141.15.014	24	P AER1	171.30.149	79	UP 8502	121.35.077	43
BM 3001	143.22.008	41	DU 100X	130.00.105	53	MD 7800	141.15.013	24	PL 40	131.33.045	51	UP 8504	121.35.079	43
BM 3003	143.22.012	29	DU 31	130.00.204	57	ME 3801	143.22.030	13	PL 50	131.33.060	51	WS 620XT	131.33.044	53
BM 3003	143.22.012	38	DU 31AT	130.00.220	57	MG 3006	163.60.344	13	PL 50EN	131.00.007	50	ZE 2200	171.70.167	17
BM 3014	143.20.135	28	DU 50EN	131.33.064	55	MG 90	131.33.081	81	PLP 50EN	131.00.008	50	ZM 2100	171.70.166	16
BM 3022	143.22.013	29	DU 60EN	131.33.083	55	MH 61EN	131.00.042	71	PL 60	131.10.214	52	ZM 2124	121.35.085	16
BM 3804	143.80.028	13	DUP 5EN	131.33.064	55	MMS 3404D	143.22.020	19	PL 68EN	131.33.082	50			
BM 3804 FM	143.80.037	13	DXT PLANNER	-	12	MMS 3405P	143.22.019	19	PL 6X	131.33.042	52			
BM 7608	143.22.015	10	ELISA 50	131.10.071	56	MMU 3100	171.80.042	18	PL 70EN	131.33.065	50			
BM 7608D	143.22.016	10	EL 7001	635.31.167	10	MP 300	121.70.094	32	PL 82EN	131.00.009	51			

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P/N	ITEM	PAG.	P/N	ITEM	PAG.	P/N	ITEM	PAG.	P/N	ITEM	PAG.	P/N	ITEM	PAG.
-	DXT PLANNER	12	130.00.068	MQ 30P B	67	131.33.064	DU 50EN	55	133.60.370	MA 5W	65	171.00.003	PR 4093	45
121.00.008	DPS 604X	47	130.00.070	MQ 50 B	67	131.33.064	DUP 5EN	55	141.15.013	MD 7800	24	171.00.005	PS 4248	11
121.00.009	MX 3500/2	12	130.00.072	MQ 60H B	69	131.33.065	PL 70EN	50	141.15.014	MD 7600	24	171.00.006	PS 6648	11
121.00.010	MX 3500/4	12	130.00.081	MQ 50C W	68	131.33.071	DP 1420EN	60	141.15.021	MD 6000-X	24	171.20.056	OT 3500	30
121.00.011	MX 3500/6	12	130.00.094	MQ 80P B	69	131.33.074	BD 2412EN	60	141.15.023	HE 2006	26	171.30.149	P AER1	79
121.10.012	AM 6020	80	130.00.096	MQ 80P W	69	131.33.075	HD 21EN	71	141.15.023	HE 2006	27	171.70.080	CR 2615	76
121.35.043	MS 520	15	130.00.097	MQ 90S B	66	131.33.076	DP 4EN	60	141.15.024	MC 5054	25	171.70.081	CR 2628	76
121.35.054	HPS 2500	46	130.00.105	DU 100X	53	131.33.076	DP 5EN	61	141.15.025	MC 4064	25	171.70.082	CR 2642	76
121.35.055	HPS 1500	46	130.00.106	DP 4	61	131.33.077	BD 5EN	61	141.15.026	MC 5002	25	171.70.108	MS 1033	35
121.35.058	AM 2160	41	130.00.139	MQ 50i W	68	131.33.078	BS 5EN	54	142.50.007	TX 2006	26	171.70.129	CR 2615 FV	76
121.35.059	AM 2320	41	130.00.186	MQ 100L B	66	131.33.079	CS 6520EN	62	142.50.008	TX 4016	27	171.70.137	PV 2603	78
121.35.060	UP 2161	42	130.00.187	MQ 100L W	66	131.33.081	MG 90	81	142.50.009	PX 2106	26	171.70.140	SV 7982	10
121.35.061	UP 2321	42	130.00.204	DU 31	57	131.33.082	PL 68EN	50	142.50.010	PX 4116	27	171.70.141	LI 7903	10
121.35.062	AM 2080	40	130.00.220	DU 31AT	57	131.33.083	DU 60EN	55	143.10.008	A 507	30	171.70.145	PU 1	77
121.35.065	UP 2162	42	130.00.231	CS 3041	63	131.33.084	GS 60	57	143.20.135	BM 3014	28	171.70.146	PU 2	77
121.35.066	UP 2082	42	130.00.232	CS 3082	63	131.33.085	HD 6045EN	71	143.22.008	BM 3001	28	171.70.147	PU 3	77
121.35.070	UP 8501	43	130.00.247	BD 42	61	131.60.032	AT 10Z	75	143.22.008	BM 3001	39	171.70.148	PU 4	77
121.35.073	UP 4240	44	130.00.387	DM 41-B	56	131.60.033	AT 20T	75	143.22.008	BM 3001	41	171.70.151	RO 7102	9
121.35.077	UP 8502	43	131.00.004	HD 31EN	71	131.60.034	CP 52	75	143.22.012	BM 3003	29	171.70.152	AC 7212	9
121.35.079	UP 8504	43	131.00.007	PL 50EN	50	131.60.035	AT 40T	75	143.22.012	BM 3003	38	171.70.153	SI 7120	9
121.35.081	AM 1064	44	131.00.008	PLP 50EN	50	131.60.036	CT 61	75	143.22.013	BM 3022	29	171.70.156	LT 7208EN	9
121.35.082	AM 1125	44	131.00.009	PL 82EN	51	133.30.006	TD 507	73	143.22.014	BM 7608DFM	11	171.70.157	MU 7100EN	8
121.35.083	UP 1121	44	131.00.010	MR 52WEN	64	133.60.009	MA 4X	64	143.22.015	BM 7608	10	171.70.159	MT 7308EN	9
121.35.085	ZM 2124	16	131.00.011	MR 52BEN	64	133.60.038	AC 50B	56	143.22.016	BM 7608D	10	171.70.166	ZM 2100	16
121.35.087	IPS 700	47	131.00.012	MR 33T	64	133.60.039	RC 62 W	15	143.22.018	BM 7624D	11	171.70.167	ZE 2200	17
121.35.089	IPS 1700	47	131.00.013	MR 33WT	64	133.60.040	RC 62 G	15	143.22.019	MMS 3405P	19	171.70.168	RD 2016	34
121.35.091	IPS 2700	47	131.00.014	MR 44T	65	133.60.041	RC 62 S	15	143.22.020	MMS 3404D	19	171.70.176	EOL 3-9	13
121.35.093	IPS 3700	47	131.00.015	MR 44WT	65	133.60.045	TD 10	74	143.22.021	BM 2006	17	171.70.177	MX 3250/2	12
121.35.102	QPS 9600	46	131.00.016	MR 55	65	133.60.046	TD 30	74	143.22.022	BE 2012	17	171.70.179	CR 2609	76
121.35.104	ES 3160 II	39	131.00.017	MR 55W	65	133.60.047	TD 60	74	143.22.030	ME 3801	13	171.70.183	MX 3250/4	12
121.35.105	ES 3323 II	38	131.00.018	HD 210TY	72	133.60.048	TD 120	74	143.40.017	CA 5XX	31	171.70.184	MX 3250/6	12
121.35.107	ES 3080	40	131.00.042	MH 61EN	71	133.60.049	TD 240	74	143.80.011	AC 550DK	31	171.80.010	DMU 6100	20
121.70.094	MP 300	32	131.05.006	CS 6940EN	62	133.60.050	TL 128	75	143.80.014	A 504-N	30	171.80.011	DMS 6410	21
123.99.015	IE 3008	13	131.10.006	BS 2620	54	133.60.080	MQ 60H Link	69	143.80.021	CJ 428E	79	171.80.011	DMS 6410X	21
123.99.042	CA 2-C	79	131.10.062	HS 1026W	53	133.60.081	MQ 60H Link	69	143.80.022	AC AD 2405	31	171.80.033	DPS 6202	20
123.99.043	CA 2-2-C	79	131.10.071	ELISA 50	56	133.60.089	IM 2220	78	143.80.027	AC 576FL	31	171.80.033	DTC 6012	21
123.99.044	RC 3005	13	131.10.214	PL 60	52	133.60.101	AR 3000	38	143.80.028	BM 3804	13	171.80.034	DEC 6104	20
123.99.047	CJ 428CAT	79	131.30.001	HD 310T	72	133.60.101	AR 3000	39	143.80.029	A 53	31	171.80.042	MMU 3100	18
123.99.049	IT 3010	13	131.33.030	HD 1110	72	133.60.102	AC XLR-3M3F	31	143.80.030	CV 210	79	173.60.027	AR 2605	79
124.01.005	MP 341	33	131.33.037	HD 3216T	73	133.60.112	AC 1503	79	143.80.031	CV 215	79	173.60.031	AR 1620	31
124.01.006	MP 301	33	131.33.039	HD 3216	73	133.60.123	A 1331	57	143.80.032	CV 225	79	173.60.038	RR 2601	78
124.01.007	MP 302	33	131.33.041	HD 410T	73	133.60.206	AC WM-CS	63	143.80.033	AC 503FS	30	173.60.039	AR 1050	78
124.01.008	MP 321	32	131.33.042	PL 6X	52	133.60.237	RC 2946	17	143.80.034	AC 502LC	30	173.60.040	BH 1042	78
130.00.049	DM 41	56	131.33.043	PL 8X	52	133.60.247	AC MIC DK	30	143.80.035	AC 501DK	30	635.31.167	EL 7001	10
130.00.050	DM 61	56	131.33.044	WS 620XT	53	133.60.341	IT 4000	30	143.80.036	BE 3806	13			
130.00.056	MQ 50 W	67	131.33.045	PL 40	51	133.60.367	MA 3B	65	143.80.037	BM 3804 FM	13			
130.00.058	MQ 30P W	67	131.33.054	BS 8	54	133.60.368	MA 3W	65	151.10.017	D 5076	73			
130.00.060	MQ 60H W	69	131.33.060	PL 50	51	133.60.369	MA 5B	65	163.60.344	MG 3006	13			



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