

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 300 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

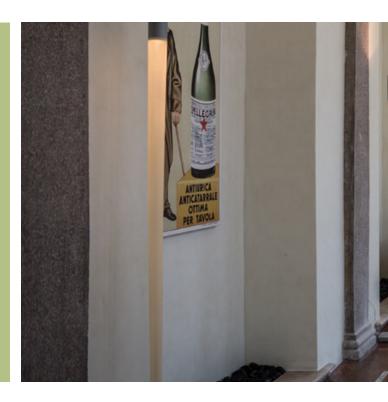
Engineering Support Group is able to produce:

organized worldwide on several subjects by RCF engineers.

- 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	
DXT 7000	DXT 3000
512	2, 4 or 6 expandable to 48
Yes	Yes
Yes	Yes
32	up to 4
Yes	-
5 for each system's unit + 2 for the whole system	3
Yes	-
up to 5 for each system's unit	1 + internal reader MP3
5 / 2 for each unit; 64 units for each system	-
PC	Frontal panel + DIPs
Yes / Yes	Yes / -
Yes	Yes
USB + Serial	-
CAT 6 FTP or J Type (RCF)	CAT 6 FTP or J Type (RCF)
CAT 6 or J Type (RCF)	CAT 6 FTP or J Type (RCF)
Pair of twisted cables, section depending on connected power and distance	Pair of twisted cables, section depending on connected power and distance
Yes	Yes
48 V CC	24 V CC (MX 3250) - 48 V CC (MX 3500) - intrnal batteries (not included)
Yes	Yes
Yes	Yes
Yes (with PS 6648)	Yes

MU 7100EN MKII | p/n 12100063

D Active Matrix

AMPLIFIED MASTER UNIT

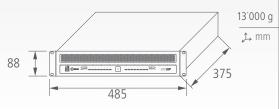


MU 7100EN is the master unit of the DXT 7000 Voice Alarm system, designed to fulfill all requirements of EN 54-16 and EN 60849 standard. The whole signal path from microphone to loudspeaker lines is completely and automatically monitored against faults. All properties and functions of the system are specified with Windows based DXT 7000 configuration software and are downloaded to master unit through its USB port.

- · 8 x 7 configurable digital matrix
- · Powerful DSP platform on-board
- · Dual AC and DC power supply
- · 8 x 80 W power amplifier
- · PC software configuration
- · Emergency messages on monitored memory
- · Up to 32 units linked together
- · Up to 256 loudspeaker lines

REAR VIEW





SPECIFICATIONS	MU 7100EN
POWER OUTPUT	8 x 80 W RMS @ 8 Ω
FREQUENCY RESPONCE	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

MT 7308EN

p/n 17170159

POWER AMPLIFIER MANAGER



MT 7308 is a power amplifiers manager unit of the DXT 7000 Voice Alarm system, suitable to control up to 8 additional power amplifiers and several speaker lines, according to EN 54-16 norm. It works connected to the MU 7100EN master 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.

- \cdot Manages up to 8 power amplifiers
- · 500 W maximum power of each amplifier
- · Up to 8 zones managed
- · PC software configuration



LT 7208EN MKII

LINE TRANSFORMER INTERFACE

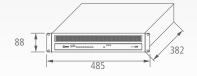
p/n 17100015





The LT 7208EN unit has 8 internal transformers (80 W / each) to convert the 8 ohm loudspeakers outputs of MU 7100EN master unit into constant voltage lines (100 - 70 - 50 V) for loudspeakers equipped with line transformers. It allows to implement several power configurations, such as 8 x 80 W, 4 x 160 W and 2 x 320 W.

- · 8 built -in line transformes
- · Link/group MU 7100EN amplifiers
- · Speakers line monitoring
- · Supports different line voltage setting



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

AC 7212 | p/n 17170152

SPARE AMPLIFIER BOARD

AC 7212 is an additional board for the DXT 7000 Voice Alarm system that allows to add a spare amplifier unit. LT 7208EN override voltage output activates the AC 7212 relay in case of fault of the main amplifier and switch the spare amplifier output to the respective loudspeaker line.

- · Used to add a spare amplifier
- · Up to 4 boards connected to a LT 7208EN unit



SI 7120

| p/n 17170153

MONITORED GPI BOARD

SI 7120 is an additional board for the DXT 7000 Voice Alarm system. It can monitor the integrity of 2 speakers lines coming from master unit. In case of line open or shorted, it activates the related command.

- · Line open or sherted fault detection
- · Red LED signal
- $\cdot\,$ Up to 2 devices connected to easch MU 7100EN



BM 7608 | p/n 14322015

DESK-TOP EMERGENCY MICROPHONE CONSOLE

BM 7608 is a desk-top emergency microphone console exclusively dedicated to DXT 7000 Voice Alarm system, and can be used both for live announcements and pre-recorded messages activation. It features complete self-diagnostic functionalities and system status reporting in compliance with EN 54-16 standard. Up to 8 consoles can be daisy-chained on each paging bus, for a total of 32 consoles.





- · Live emergency announcements
- · Pre-recorded messages activation
- · Complete self-diagnostic
- · Numeric keyboard
- · Hi-quality cardioid microphone
- · Modern design

BM 7608D

p/n 14322015

DESK-TOP EMERGENCY MICROPHONE CONSOLE

BM 7608D is a desk-top emergency microphone console exclusively dedicated to DXT 7000 Voice Alarm system, and can be used both for live announcements and pre-recorded messages activation. It features complete self-diagnostic functionalities and system status reporting in compliance with EN 54-16 standard. Up to 8 consoles can be daisy-chained on each paging bus, for a total of 32 consoles.





- · Live emergency announcements
- Pre-recorded messages activation
- · Complete self-diagnostic
- · Numeric keyboard and display
- · Hi-quality cardioid microphone
- · Modern design

SPFC	ATI	ONIC

SPECIFICATIONS	BM 7608 - BM 7608D
FREQUENCY RESPONCE (-3 dB)	200-17000 Hz (mic) - 50-17000 Hz (aux)
AUDIO INPUT (AUX)	-14 ÷ 0dB (adjustable)
THD + N 1 kHz	<0,1%
CONNECTORS	RJ 45
AUDIO OUTPUT	3,5mm TRS connector
EXTERNAL CONTROLLER	3 pin removable screw

SV 7982

p/n 17170140

WALL-MOUNT REMOTE CONTROL

SV 7982 is a wall-mount remote control used as local audio control device. It can control a zone group volume and works as program selector. Connection to local or system bus using CAT5 or CAT6 cables.

- · Zone group control
- · Level control
- · Program Selector
- · CAT5 and CAT6 compatible

SV 77982 ROP CHANNEL VOLUME

LI 7903

p/n 17170141

LOCAL INPUT DEVICE

LI 7903 is a local input device allowing the connection and routing of a local program source. It features 3 function buttons that can be individually programmed. To be wall mounted by using the accessories provided.

- · Local audio source management
- · 3 configurable buttons
- · Suitable for wall-mount



EL 7001

p/n 63531167

END OF LINE

EL 7001 is a End Of Line terminator thats allow accurate monitoring of speakers lines integrity, and it is suitable for DXT 7000 Voice Alarm system.

· Monitors speakers lines integrty



BM 7608DFM

p/n 14322014

DESK-TOP EMERGENCY MICROPHONE CONSOLE

BM 7608DFM is a desk-top emergency microphone console exclusively dedicated to DXT 7000 Voice Alarm system, and can be used both for live announcements and pre-recorded messages activation. It features complete self-diagnostic functionalities and system status reporting in compliance with EN 54-16 standard. Up to 8 consoles can be daisy-chained on each paging bus, for a total of 32 consoles.





- · Live emergency announcements
- · Pre-recorded messages activation
- · Handheld microphone with PTT button
- · Complete self-diagnostic
- · Numeric keyboard and display
- · Modern design

BM 7624D

p/n 14322018

DESK-TOP EMERGENCY MICROPHONE CONSOLE

BM 7624D is a desk-top emergency microphone console exclusively dedicated to DXT 7000 Voice Alarm system, and can be used both for live announcements and pre-recorded messages activation. It features complete self-diagnostic functionalities and system status reporting in compliance with EN 54-16 standard. Up to 8 consoles can be daisy-chained on each paging bus, for a total of 32 consoles.



- · Live emergency announcements
- · Pre-recorded messages activation
- · Complete self-diagnostic
- · Numeric keyboard and display
- · Hi-quality cardioid microphone
- · Modern design

	SPECIFICATIONS	BM 7608	BM 7624D
	FREQUENCY RESPONCE (-3 dB)	20017000 Hz (mic) - 50-17 000 Hz (aux)	20017000 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 6648

p/n 17100006

POWER SUPPLY CERTIFIED EN 54-4



PS 6648 is a power supply unit suitable to get continuity power for EN 54-16 systems units like DXT 9000 and 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. According to EN 54-16 standard, it shall be installed into the same rack cabinet where there is the audio system with emergency purposes (or a system part) to which it is connected.

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

- · 48 V batteries nominal voltage
- · 6 main outputs to system's units
- · 6 auxiliary outputs
- · Battery circuit control
- · PC software configuration and monitoring



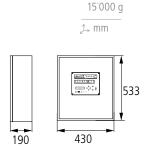
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p/n 17170184

AMPLIFIED MASTER UNIT





MX 3250 is the master unit of the Voice Alarm system DXT 3000, dedicated to small and medium size applications where an EN 54-16 certified system is required. It is equipped with powerful and exceptionally reliable Class D power amplifiers, able to provide up to 250 W of total power. Depending on the model, it is able to serve up to 6 independent zones. Moreover, the spare power amplifier facility is also available. The internal power supply is certified EN 54-4, and the back-up batteries can be host inside the cabinet, making the system a complete and extremely compact solution. Moreover, the on-board DSP platform allows optimizing environmental equalization, maximizing voice intelligibility and background music performance. The system can be completed with emergency microphone consoles BM 3804, BM 3804FM and ME 3801, and the buttons extensions BE 3806, allowing to add live announcements functionality.

- · 250 W total power
- · Up to 6 zones controlled
- · DSP platform on-board
- · Certified EN 54-16 and EN 54-4
- · Emergency messages on monitored SD card
- · Spare power amplifier facility
- · Integrated audio source on front panel
- · Wall mount or rack mount installation

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

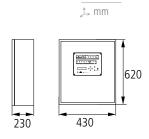
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p/n 12100010

p/n 12100011

AMPLIFIED MASTER UNIT





17'000 g

MX 3500 is the master unit of the Voice Alarm system DXT 3000, dedicated to small and medium size applications where an EN 54-16 certified system is required. It is equipped with powerful and exceptionally reliable Class D power amplifiers, able to provide up to 500 W of total power. Depending on the model, it is able to serve up to 6 independent zones. Moreover, the spare power amplifier facility is also available. The internal power supply is certified EN 54-4, and the back-up batteries can be host inside the cabinet, making the system a complete and extremely compact solution. Moreover, the on-board DSP platform allows optimizing environmental equalization, maximizing voice intelligibility and background music performance. The system can be completed with emergency microphone consoles BM 3804, BM 3804FM and ME 3801, and the buttons extensions BE 3806, allowing to add live announcements functionality.

- · 500 W total power
- · Up to 6 zones controlled
- · DSP platform on-board
- · Certified EN 54-16 and EN 54-4
- · Emergency messages on monitored SD card
- · Spare power amplifier facility
- · Integrated audio source on front panel
- · Wall mount or rack mount installation

SPECIFICATIONS	MX 3250	MX 3500
POWER	up to 250W distributed in 2, 4 o 6 zones	up to 500W distributed in 2, 4 or 6 zone
FREQUENCY RESPONCE	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

p/n 14380028

DESK-TOP EMERGENCY MICROPHONE CONSOLE



- · Live emergency announcements
- · Pre-recorded messages activation
- · Complete self-diagnostic
- · Powered by master unit
- · Hi-quality cardioid microphone
- · Robust metal case

BE 3806

p/n 14380036

ADDITIONAL KEYBOARD FOR BM 3804



600 g ⊥ mm

- · Selective zones activation
- · Zones status indication
- · Powered by microphone console
- · Robust metal case

EOL 3-9

p/n 17170176

END OF LINE

- · 20 Hz resonator
- · 200 Ohm impedance
- · Ceramic terminal with termal fuse
- · Plastic case UL94 V0
- · To be used with RCF cables CV 215, CV 225

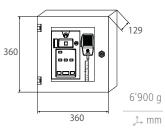


BM 3804FM

p/n 14380037

FIREMEN EMERGENCY MICROPHONE CONSOLE





- · Live emergency announcements
- · Pre-recorded messages activation
- · Complete self-diagnostic · Powered by master unit

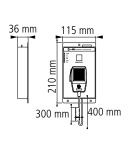
- · Handheld microphone with PTT button · Protected into a robust metal box

ME 3801

p/n 14380036

WALL MOUNT EMERGENCY MICROPHONE





1140 g ♪ mm

- · Live emergency announcements
- · General call functionality
- · Handheld microphone with PTT button
- · Complete self-diagnostic
- · Powered by master unit
- · Robust metal case

IE 3008

p/n 12399015

INTERLINK BOARD



- · Connects up to 8 units
- · Master/slave architecture
- · Fully redundant communication bus
- · Powered by master unit
- · General and zone alarm activation
- · Global and local BGM inputs

MG 3006

p/n 13360344

MONITORED GPI BOARD



- · Faults detection and reporting
- · General and zone alarm activation
- · Reset function
- · Powered by master unit

IT 3010

p/n 12399049

TRANSFORMERS BOARD



- · Installation on IE 3008
- · 6 line transformers
- · Screw or RJ 45 connectors
- · Power supply not required

RC 3005

p/n 12399044

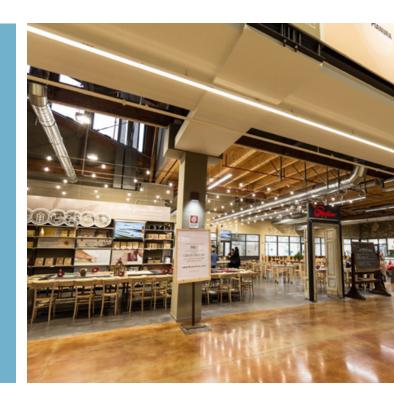
WALL MOUNT REMOTE CONTROL

RC 3005 is a wall mount remote control for DXT 3000 Voice Alarm system that allows to manage the music source integrated in the master units front panel. It is designed with a universal wall mount mechanics.



MULTI-ZONE SYSTEMS

Paging and background music to different zones.



ZM 2124

p/n 12135085

240W 6 ZONES POWERED MASTER UNIT



- · Dual-bus system architecture
- $\cdot\,$ System Paging consoles input for up to 6 selective devices daisy chained
- 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
- \cdot Link to connect up to eight ZE 2200 $\,$
- $\cdot\,$ Dedicated wall mounting system remote control allows you to remote the main commands available on the master unit
- · Priority indicator to show when any system priority circuit has been triggered
- · Selectable chime generator is available on announcements

ZM 2100

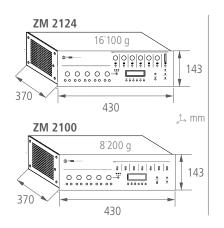
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6 ZONES PRE-AMPLIFIED MASTER UNIT



- · System Paging consoles input for up to 6 selective devices daisy chained
- \cdot Switches with indicators to send or not the secondary bus program
- \cdot Link to connect up to eight ZE 2200 6six-zone expansion units so to built-up paging systems in excess of 50 zones.
- $\cdot\,$ 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 kH:	z ; 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 k Ω (unbalanced)	
INPUTS	4 input mic. + 3 aux su RCA + 2 paging	
OUTPUTS	6 (power)	6 a 100 V / 0 dB depending on the config.
EMERGENCY INPUT SENSITIVITY	100 mV (unbalanced	audio signal), 100 V line
SIGNAL/NOISE RATIO EMERGENCY INPUT	>	70 dB
EMERGENGY 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





$BM\ 2006 \quad |\ p/n\ 14322021$

PAGING MICROPHONE



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

BE 2012

p/n 14322022

EXTENSION MODULE



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

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

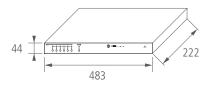
ZE 2200

p/n 17170167

6 ZONES EXPANSION UNIT



34	00 g
1	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.



- 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	MMU 3100
POWER SUPPLY	115-230V / 50-60 Hz
MAXIMUM POWER CONSUMPTION	240 W
DIMENSIONS (W X H X D)	442 x 88 x 230 mm
WEIGHT	4 Kg
DESK INPUT	
SENSITIVITY	-7 dBu (max. + 13 dBu)
IMPEDANCE	1 Ω
INGRESSO PLAY	
SENSITIVITY	-7 dBu (max. + 13 dBu)
IMPEDANCE	20 Ω
MIXER OUT	
MAXIMUM POWER LEVEL	+21 dBu
IMPEDANCE	100 Ω
RECORDING OUTPUT	
FREQUENCY RESPONSE (-3 dB)	35 Hz ÷ 20 kHz
S/N RATIO	≥85 dBA





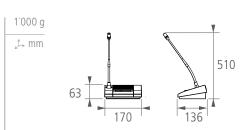
1 000 g		
	63 170	510

- · 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

SPECIFICATIONS	MMS 3404D
MICROPHONE CAPSULE	ELECTRET
TYPE	HYPERCARDIOID
SENSITIVITY	0.56 mV / Pa
FREQUENCY RESPONSE	70 Hz ÷ 18 kHz
SPEAKER POWER	1 W
CONNECTORS	RJ 45
WEIGHT	1 kg



	mounting
SPECIFICATIONS	MMS 3405P
MICROPHONE CAPSULE	ELECTRET
TYPE	HYPERCARDIOID
SENSITIVITY	0.56 mV / Pa
FREQUENCY RESPONSE	70 Hz ÷ 18 kHz
SPEAKER POWER	1 W
CONNECTORS	RJ 45
WEIGHT	1 kg



- · 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

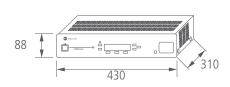
DMU 6100

MASTER UNIT

p/n 17180010







- 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

SPECIFICATIONS	DMU 6100
OPERATING VOLTAGE	100 ÷ 240 Vac (50 − 60 HZ)
MAX. CURRENT	1,7 A (230 V) / 3,5 A (115 V)
MAXIMUM POWER CONSUMPTION	200 W
OPERATING TEMPERATURE	0 ÷ 50°C
SIZE (L X A X P)	430 X 88 X 310 mm
WEIGHT	5,6 kg
MIC/LINE INPUTS	
FREQUENCY RESPONCE (-3 DB)	50 Hz ÷ 20 kHz
HIGH-PASS FILTER	12 dB / OCT (-3 dB AT 100 Hz)
S/N RATIO	≥65 dBA (MIC) /≥85 dBA (LINE)
PLAY INPUT	
FREQUENCY RESPONCE (-3 DB)	50 Hz ÷ 20 kHz
S/N RATIO	≥85 dBA
MAIN OUT	
OUTPUT LEVEL	0 dBu (THD <0.1%); MAX +20 dBu (THD 0,5%)
PRESENCE CONTROL	MAX 15 dB @ 2.1 kHz
SYSTEM OUTPUT	
FREQUENCY RESPONCE (-3 DB)	35 Hz ÷ 20 kHz
S/N RATIO	≥ 85 dBA

DEC 6104

p/n 17180034

EXPANDER BOARD



- 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



DMS 6410

p/n 17180011

MICROPHONE CONSOLE

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 17180013

1'000 g



- 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 RESPONCE (-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 lspk. : 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
FREOUENCY RESPONSE (-3 DB)	170 Hz ÷ 16 kHz

MICROPHONES AND WIRELESS MICROPHONES

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







MODEL	MC 5200	MD 7800
TYPE	UNI-DIRECTIONAL, BACK ELECTRET CONDENSER	Dynamic
POLAR PATTERN	Uni-directional	Supercardioid
FREQUENCY RESPONSE	50 ÷ 18000 Hz	60 ÷ 20000 Hz
SENSITIVITY (0 dB=1V/µbar, 1kHz)	- 58dB \pm 3dB (0 dB=1V/ μ bar, 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, 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/µbar, 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
TYPE	Electret	Electret
POLARN PATTERN	Cardioid	Cardioid
FREQUENCY RESPONSE	50 ÷ 18000 Hz	50 ÷ 18000 Hz
SENSITIVITY (0 dB=1V/µbar, 1kHz)	- 65 dB	- 65 dB
POWER SUPPLY	18 ÷ 48 V PHANTOM	115 - 230 V ac / 24 V dc
CONNECTORS	RJ 45	RJ 45
ON/OFF SWITCH	Yes	Yes
USF	Announcements	Announcements





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

HAND-HELD MICROPHONE AND DESKTOP MICROPHONES

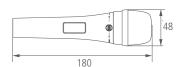
MD 7800

p/n 14115013

PROFESSIONAL DYNAMIC MICROPHONE

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	$600 \Omega \pm 30\%$ (1 kHz)
SENSITIVITY	- 70 dB \pm 3 dB (0 dB=1V/ μ bar, 1kHz)
FREQUENCY RESPONSE	60 ÷ 20000 Hz
CONNECTORS	3 pole XLR (m)

DESK-TOP MICROPHONE p/n 14115026 p/s 130 g mm

- \cdot 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 \pm 3dB (0 dB=1V/ μ bar, 1kHz)
CONNECTORS	5 noles XIR (m)

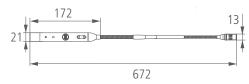
MC 4064

p/n 14115025

GOOSENECK MICROPHONE (DESK-TOP / ON FLOOR STAND)



20	00 g
<u>_</u>	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 \div 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 \pm 3 dB (0 dB=1V/ μ bar, 1kHz)
CONNECTOR	3 pole XLR (m)

MC 5054

p/n 14115024

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.
- $\cdot\,$ Sensitivity: -65 dB \pm 3 dB (0 dB = 1 V/µbar 1.000 Hz)
- · Dimensions: diameter 19x540 mm.





TX 4016

UHF TRUE DIVERSITY SYSTEM - HAND HELD TX

PX 4116

p/n 14250010

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

CDECIFICATION

p/n 14115023

'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.

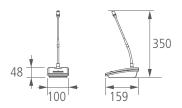


BM 3001

p/n 14322008

PAGING MICROPHONE





- · 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	BM 3001
	TYPE	ELECTRET, CARDIOID
	IMPEDANCE	470 Ω BALANCED
	FREQUENCY RESPONSE	50 ÷ 18000 Hz
	SENSITIVITY	- 65 dB \pm 3 dB (0 dB=1V/ μ bar, 1kHz)
-	CONNECTORS	8 note RI 45

BM 3014

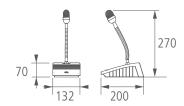
PAGING MICROPHONE

p/n 14320135



1'600 g

_ ↑ mm



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

SPECIFICATIONS	BM 3014
TYPE	DYNAMIC, CARDIOID
IMPEDANCE	500 Ω BALANCED
FREQUENCY RESPONSE	100 ÷ 12000 Hz
SENSITIVITY	$-71 \text{ dB} \pm 3 \text{ dB} \text{ (0 dB=1V/}\mu\text{bar, 1kHz)}$
CONNECTORS	3 pole XLR



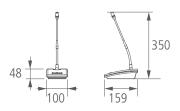
BM 3003

p/n 14322012

3 ZONES PAGING MICROPHONE







- · Plastic body with 300 mm gooseneck
- · PTT button with LED, Zone buttons with LED
- Power supplied by 'Phantom' (18 \div 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	BM 3003
TYPE	ELECTRET, CARDIOID
IMPEDANCE	470 Ω BALANCED
FREQUENCY RESPONSE	50 ÷ 18000 Hz
SENSITIVITY	- 65 dB \pm 3 dB (0 dB=1V/ μ bar, 1kHz)
CONNECTORS	2 x 8 pole RJ 45

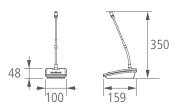
BM 3022

p/n 14322013

PRE-AMPLIFIED DESK TOP MICROPHONE



600 g △ mm



- \cdot Gooseneck microphone with hi-quality unidirectional $% \left(\mathbf{r}\right) =\mathbf{r}^{\prime }$ 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	BM 3022
ТҮРЕ	ELECTRET
IMPEDANCE	130 Ω BALANCED
FREQUENCY RESPONSE	200 ÷ 7000 Hz
SENSITIVITY	- 65 dB \pm 3 dB (0 dB=1V/ μ bar, 1kHz)
CONNECTORS	2 x RJ 45 (IN - OUT)

AC MIC DK

TABLE BASE FOR MICROPHONE MC 4064

p/n 13360247



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

AC 503FS

MC 5054 ADAPTOR FOR FLOOR MICROPHONE STAND

p/n 14380033



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.

OT 3500

TRANSFORMER FOR DISTRIBUTED SYSTEMS

p/n 17120056



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

AC 501DK

DESKTOP MIC BASE XLR IN/OUT

p/n 14380035

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 504-N

MIC SUPPORT

p/n 14380014



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 502LC

MC 5054 ADAPTOR FOR PLATFORMS

p/n 14380034



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.

IT 4000

INPUT TRANSFORMER 100V TO 0DB

p/n 13360341



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.





A 507

MIC. SUPPORT p/n 14310008



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.

AC S50DK

DESKTOP STAND

p/n 14380011



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 XLR-3M3F

CONNECTORS

p/n 13360102



XLR Connectors KIT:

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

AR 1620

RACK MOUNTING ACCESSORY

p/n 17360031



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

CA 5XX

MIC. CABLE

p/n 14340017



5 m microphone cable with XLR connectors.

AC S76FL

FLOOR STAND p/n 14380027



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 AD 2405

24 V ADAPTOR

p/n 14380022



Power adaptor for 24 V DC paging microphones

- input 230V AC
- output 24 V DC 500 mA

A 53

ADAPTER FROM 3/8 TO 5/8

p/n 14380029



S50DK AC microphone holder adapter

- Kit of 10 pieces

MP 300 SPEAK THROUGH SYSTEM

MP 300

OPERATOR/USER INTERCOM SYSTEM KIT

p/n 12170094

- $\cdot~$ MP 300 system allows conversations between an operator and users /clients when these are separated by a safety glass that reduces the sound transmission
- Operaties 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	12401005	Control unit / amplifier	1
MP 321	12401008	Operator microphone console with activation keys	1
MP 302	12401007	User microphone	1
MP 301	12401006	Loudspeaker	4



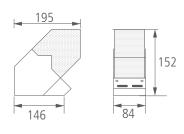
SPECIFICATIONS	MP 300
MICROPHONES	ELECTRET, UNIDIRECTIONAL
AMPLIFIER POWER	2 W (per each line)
ADDITIONAL LOUDSPEAKER OUTPUT	1 W - 8 Ω
POWER SUPPLY (AC)	230 / 115 V (50 / 60 Hz)
POWER SUPPLY (DC)	12 V

MP 321

OPERATOR MICROPHONE

p/n 12401008





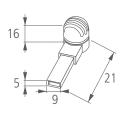
- Electret microphone with unidirectional polarn pattern, housed into an anthracite grey diecast aluminium alloy and protected by a painted stainless steel grille
- Equipped with 2 push-buttons to activate the operator-user line and the user-operator line respectively
- · A LED indicates which line is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



MP 302

USER MICROPHONE

3,5 g ∴ mm

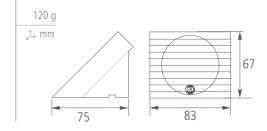


p/n 12401007

- 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

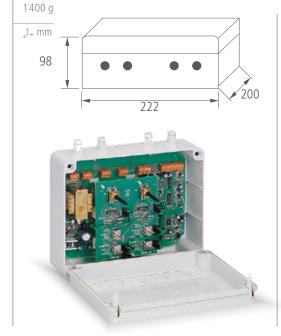


p/n 12401006

- · 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

- · 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 enclusure can be wall mounted

AMPLIFIERS, PREAMPLIFIERS AND AUDIO SOURCES

For constant voltage systems or professional audio applications.

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









MODEL	ES 3323-II	ES 2160	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 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







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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 ΚΩ	10 ΚΩ	10 ΚΩ
INPUT CONNECTORS	Screw terminal	Screw terminal	Screw terminal
OUTPUT CONNECTORS	Screw terminal	Screw terminal	Screw terminal

DIGITAL RECEIVER AMPLIFIERS

ES 3323 II

p/n 12135105

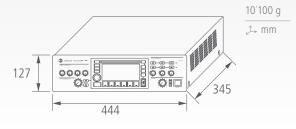
320 W, 3-ZONE MIXER AMPLIFIER, CD/USB/BLUETOOTH MP3 PLAYER



- · 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 O) 2 W output for a monitor loudspeaker is available
- 4 universal inputs with phantom facility, Presence Control and perchannel 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	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 \div +10 dBu (0.2 \div 2.5 V)
INPUT IMPEDANCE	(MIC) 10 K Ω ; (AUX) 20 K Ω (MIC) 10 k Ω ; (MIC PHANTOM) 6.5 k Ω ; (LINE): 10 k Ω ; (AUX): 20 k Ω
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 14322012

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

RACK SUPPORT

Rack mounting support, 3U.

p/n 13360101





6'450 g

ES 2160

p/n 12100053

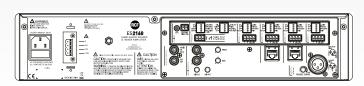
MIXER-AMPLIFIER WITH MP3 PLAYER AND BLUETOOTH



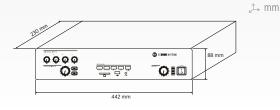
ES 2160 is a 160 W class-D mixer-amplifier, with 4 mic-line audio inputs on removable connectors, an MP3 player with Bluetooth and an aux input for an external music source. The amplifier output is available both for low and high impedance speakers. Inputs 2 and 3 also have a RJ 45 socket for quick connection of a single RCF BM 3001 paging microphone (through CAT5 cable). ES 2160 offers several functions such as signal detection circuit ('VOX'), priority (through an external command), music on hold output, high-pass filters for improving speech intelligibility and tones controls.

- · 160 W power amplifier
- · 4 mic-line inputs with phantom facility
- · MP3 player and Bluetooth connectivity
- · Low and high impedance spekers output
- · BM 3001 connector on inputs 2 and 3
- · VOX facility and priority command
- · High-pass filters
- · Tone controls on AUX inputs
- · Music on hold output

REAR VIEW



p/n 14322008



SPECIFICATIONS

Amplifier Class: Number of channels:

Power output per channel (@ 4 ohm):

Frequency Response (-3dB):
Distortion (THD+N) @ 1 kHz nominal power:

Total number of inputs:

Balanced:

Unbalanced:

Mono:

Stereo:

Line inputs: Mic+Line inputs:

Mic+Line connectors:

Mic+Line Phantom:

Paging inputs:

General Purpose Inputs (GPI):

Signal output connectors: Power output connectors:

Tone controls:

High-pass filter:

Controls: Protections:

BM 3001 MICROPHONE CONSOLE

Dedicated microphone console with Cat5 connection cable and RJ45 connector.



ES 2160

160 W RMS

50 Hz ÷ 14 Hz <0.3 %

8

Euroblock, XLR

32 V DC

RCA

Euroblock

150 Hz

Configuration DIP switch, Priority, Music on hold, Chime tone

Cooling, Short circuit, Thermal, DC, Fuses

AR 3000

RACK SUPPORT

p/n 13360101

Rack mounting support, 3U.



POWER AND DIGITAL RECEIVER AMPLIFIERS

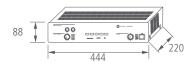
ES 3080

p/n 12135107

MIXER-AMPLIFIER WITH AUDIO SOURCE







- · 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
- Auxillary 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 FREQUENCY RESPONSE DISTORTION (THD+N) SPEAKER OUTPUTS SIGNAL TO NOISE RATIO INPUT SENSITIVITY INPUT IMPEDANCE SUPPLY VOLTAGE INPUT CONNECTORS

ES 3080

80 W 50 - 18.000 Hz (± 3 dB)

< 0,3% @ 1 kHz

100 V, 70 V, 4 Ω

> 60 dB (INPUTS 1-2); > 80 dB (AUX IN)

(MIC) -62 dBu (1 mV); (MIC PHANTOM) -28 dBu (30 mV); (AUX) -18 \div +20 dBu (0.1 \div 7 V)

(MIC) 10 kΩ; (MIC PHANTOM) 10 kΩ; (AUX) 20 KΩ

220 ÷ 240 V / 110 ÷ 120 V (50 / 60 Hz) INTERNAL SETTING / 80 W

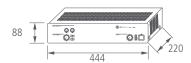
1 x XLR, 1 x RJ 45 FOR BM 3001, 2 x TERMINAL, 1 x RCA

AM 2080

p/n 12135062

INTEGRATED AMPLIFIER





- 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

AM 2080

- The amplifier output is available either for low impedance loudspeakers (min. $4~\Omega$) 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 \div +20 dBu (0.1 \div 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 2160 AM 2320

p/n 12135058

p/n 12135059

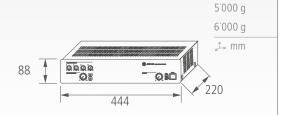
INTEGRATED AMPLIFIERS



- $\cdot~$ Full digital technology Mixer Amplifier 160 W RMS
- $\cdot~100\,V$ 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) $-6 \div +13$ dBu (0.39 \div 3.5 V)
INPUT IMPEDANCE	(MIC) 10 k Ω ; (MIC PHANTOM) 5 k Ω ; (LINE): 10 k Ω ; (AUX): 20 k Ω
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

p/n 14322008

MICROPHONE CONSOLE

Dedicated microphone console with Cat5 connection cable and RJ45 connector.



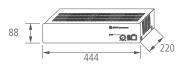
UP 2321

p/n 12135061

POWER AMPLIFIERS



4'500 g 5'500 g



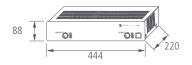
- · Versatile amplifier for music and announcements
- · Power: 320 W
- Main input with selectable phantom power on removable connector XLR or RJ45 (for a quick connection with BM3001 through CAT5FTP cable
- AUX input for audio sources (CD players, radios, etc.) through RCA connector
- · Tone controllers 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 \mbox{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 2162
POWER AMPLIFIERS

p/n 12135065



3'800 g 7'000 g △ mm



- · Power: 160 W
- 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 impeance (4 $\Omega)$ 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 k Ω ; (MIC PHANTOM) 5 k Ω ; (LINE): 10 k Ω ; (AUX): 20 k Ω	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



CE

UP 8501 UP 8502 UP 8504

p/n 12135070

p/n 12135077

p/n 12135079

DIGITAL POWER AMPLIFIER







 Class D amplifier and double switching AC-DC power supply, transformer-less galvanic insulated speaker output

CERTIFIED

CPR: 1438-CPR-0241

EN 54-16

- · 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





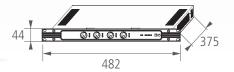
UP 8502





UP 8504





SPECIFICATIONS	UP 8501	UP 8502	UP 8504	
OUTPUT POWER	1 X 500 W	2 X 250 W	4 X 125 W	
FREQUENCY RESPONCE	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%, 5	Mains: $115 - 230$ V c.a. $\pm 10\%$, $50 - 60$ Hz (internal voltage selector) Batteries : 48 V c.c. $\pm 10\%$		
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

p/n 12135082

120W 4-INPUTS MIXER AMPLIFIER





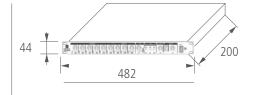
- · 4 XLR input AM 1125 / 3XLR input AM 1064
- · VOX facility and Phantom power supply on input 1
- · Audio input 3 also with dual RCA connector
- · Aux input on dual RCA connector
- · DUCKING Control to adjust the Aux in level
- Audio output (with RCA connector) that sends the same signal routed to 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
OUTPUT POWER	120 W
FREQUENCY RESPONSE	50÷15.000 Hz
MAX CONSUMPTION	100V (83Ω) - 70V (42Ω) - 4Ω
MAX. OUTPUT POWER	240 W
INPUT SENSITIVITY	MIC: 1.5 mV (- 54 dBu) dBu LINE & AUX: 200 mV (- 12 dBu) dBu
INPUT CONNECTORS	XLR or Dual RCA
OLITPLIT CONNECTORS	Dual RCA

PR 4093

p/n 17100003

PRE-AMPLIFIER 9 INPUT 2 OUTPUT



3'600 g



- · MP3 stereo player/recorder
- \cdot 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	PR 4093
FREQUENCY RESPONSE:	20 ÷ 22.000 Hz
DISTORTION (THD & N):	≤ 0.03% a 1 kHz
TONE CONTROL	LOW: 80 Hz \pm 15 dB; HIGH: 8 kHz \pm 15 dB; MID: 2.5 kHz \pm 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 12135102

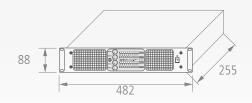
4 X 2400 HIGH POWER PRO AMPLIFIER



- · 240 W power amplifier
- · Suitable for the distribution of music and announcements
- $\cdot~$ Amplifier output available both for 100 / 70 V constant voltage lines and low impedance loudspeakers (min. 4 O)
- \cdot 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

REAR VIEW





SPECIFICATIONS	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 RESPONCE	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

POWER AMPLIFIERS

IPS 700 IPS 1700 IPS 2700 IPS 3700

p/n 12135087

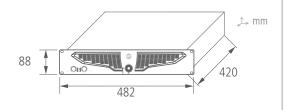
p/n 12135089

p/n 12135091

p/n 12135093

POWER PRO AMPLIFIER





2-channel power amplifiers that provide power:

- \cdot IPS 700: delivers up to 2 x 300 W RMS @ 4 Ω (600 W RMS bridged @ 8 $\Omega)$
- IPS 1700: delivers up to 2 x 450 W RMS @ 4 Ω (900 W RMS bridged @ 8 $\Omega)$
- IPS 2700 delivers up to 2 x 1100 W RMS @ 4 Ω (2200 W RMS bridged @ 8 $\Omega).$
- IPS 3700 delivers up to 2 x 1500 W RMS @ 4 Ω (3000 W RMS bridged @ 8 $\Omega).$
- 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	Н	Н	Н
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			ift, power supply over-current
COOLING		Internal heat sinks a	nd 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



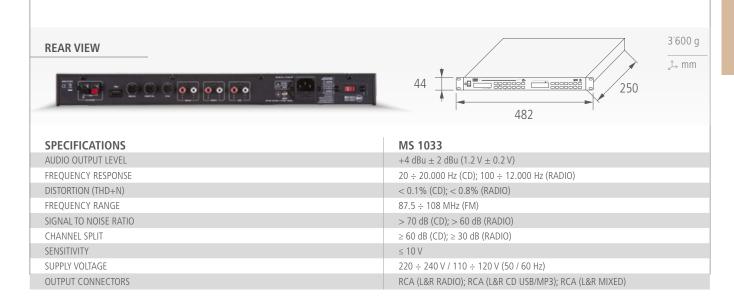
MS 1033

p/n 17170108

CD-USB MP3 PLAYER WITH FM RADIO TUNER

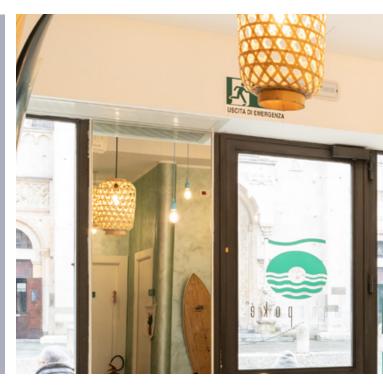


- Double sound source with two independent sections and outputs (Tuner - CD/Mp3)
- CD player to reproduce audio tracks and MP3 files from a compact disc (CD, CD-R, CD-R/W) or from the USB drive ("Flash" memory-stick with only MP3 files) The USB port is available on both front and back panels to provide maximum flexibility
- · The SD card port is available on front panels
- · LCD backlit display gives information on the CD and MP3 files
- \cdot 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



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
TYPE	Ceiling speaker					
INSTALLATION	Flush mounted					
COLOUR	White	White	White	White	White	White
SPEAKER	5"	5"	6" dual-cone	6" dual-cone	8" + 0.75"	3,5"
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
INPUT	100 V, 70 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
MAX. SOUND PRESSURE	100 dB	101 dB	102 dB	99 dB	106 dB	100 dB
ANGLE OF COVERAGE	160°	165°	126°	131°	160°	120°
PROTECTION / CONFORMS	FN 54-24	_				













MODEL	PL 50	PL 60	PL 6X	PL 8X	MF 33EN	WMF 33EN
TYPE	Ceiling speaker	Universal				
INSTALLATION	Flush mounted	Wall				
COLOUR	White	White	White	White	Black	Black
SPEAKER	6"	6" dual-cone	6" + 1"	8" + 1"	2 x 3" + 1"	2 x 3" + 1"
POWER NOM. / PROGRAM	6 – 3 W	6 W RMS / 12 W	12 W RMS / 24 W	20 W RMS / 40 W	40 W RMS / 160 W	40 W RMS / 160 W
INPUT	100 V	100 V, 70 V	100 V, 70 V	100 V, 70 V	100 V, 70 V	100 V, 70 V
FREQUENCY RESPONSE	100 Hz ÷ 20 kHz	90 Hz ÷ 20 kHz	70 Hz ÷ 20 kHz	60 Hz ÷ 20 kHz	80 Hz ÷ 20 kHz	80 Hz ÷ 20 kHz
MAX. SOUND PRESSURE	98 dB	107 dB	106 dB	109 dB	104 dB	104 dB
ANGLE OF COVERAGE	150°	90°	100°	80°	100° (Horiz) 160° (Ver)	100° (Horiz) 160° (Ver)
PROTECTION / CONFORMS	-	-	-	-	EN 54-24	EN 54-24















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









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

PL 50EN

p/n 13100007

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

CERTIFIED EN 54-24

CPR: 1488-CPR-0486/W

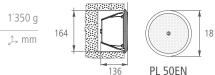
CEILING SPEAKER WITH FIRE DOME

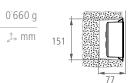
PLP 50EN

p/n 13100008

CEILING SPEAKER WITH PLASTIC FIRE DOME









• 5" fullrange transducer.

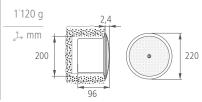
- Power selectable (100 V): 6 W 3 W 1.5 W.
- 93 dB sensitivity.
- · Colour white RAL 9016.
- · In/out ceramic terminal block.
- · Thermal fuse protection.

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 RESPONCE	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°

PL 68EN

CEILING SPEAKER WITH FIRE DOME





p/n 13133082

- · 6" fullrange transducer.
- Power selectable (100 V): 6 W 3 W 1.5 W.
- · 94 dB sensitivity.
- · Colour white RAL 9003.
- · Steel frame, grille and back can.
- · In/out ceramic terminal block.
- · Thermal fuse protection.

SPECIFICATIONS	PL 68EN
POWER SELECTION	6 - 3 - 1,5 W (100 V)
CONSTANT VOLTAGE	100 V, 70 V
FREQUENCY RESPONCE	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 13133065

CPR: 1488-CPR-0487/W

- · 6" fullrange transducer.
- Power selectable (100 V): 6 W 3 W 1.5 W 0.75 W.
- · 93 dB sensitivity.
- · Colour white RAL 9003.
- · Steel frame, grille and back can.
- · In/out ceramic terminal block.
- · Thermal fuse protection.

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



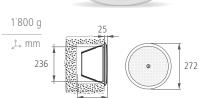
PL 82EN

p/n 13100009

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

2 WAYS CEILING SPEAKER WITH FIRE DOME



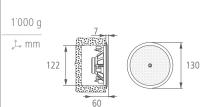


- · 8" coaxial woofer with 0.75" dome tweeter.
- Power selectable (100 V): 20 W − 10 W − 5 W.
- · 94 dB sensitivity.
- · Colour white RAL 9016.
- · Steel frame, grille and back can.
- · In/out ceramic terminal block.
- · Thermal fuse protection.

SPECIFICATIONS	PL 82EN
POWER SELECTION	20 - 10 - 5 W (100 V)
CONSTANT VOLTAGE	100 V, 70 V
FREQUENCY RESPONCE	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 13133045

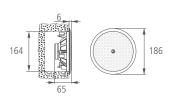
- · Recommended for speech and background-music reproduction
- · IP 44 protection
- · Low impedance (8 Ω) or 100V
- · 3.5" full range speaker
- · Three hooks mounting system (no screws or other attachment elements)
- · Built-in multi-tapped transformer for constant voltage connection
- · Body in self-extinguishing (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 RESPONCE	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



500 g



p/n 13133060 (only available in 12 pieces per package)

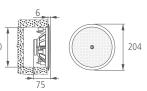
- · Suitable for paging and background music applications
- · 6" wide band loudspeaker
- · Sound pressure level at music power: 91 dB @ 1W/1m
- · Built-in multi-tap line transformer, 100V and 70V constant voltage connection
- · Body in self-extinguishing plastic, white colour
- · Spring-type mounting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

SPECIFICATIONS	PL 50
POWER SELECTION	6 – 3 W
CONSTANT VOLTAGE	100 V
FREQUENCY RESPONCE	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



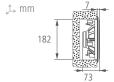


PL 6X PL 6X B

COAXIAL CEILING SPEAKER



780 g





PL 8X PL 8X B

COAXIAL CEILING SPEAKER



1'230 g





p/n 13110214

- · For paging and background music
- · 6" dual cone wide band loudspeaker
- · Sound pressure level at music power: 102 dB/1 m
- · Low impedance (4 Ω) 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 13320107)

SPECIFICATIONS	PL 60
POWER SELECTION	6 - 3 W (100 V)
CONSTANT VOLTAGE	100 V, 70 V
FREQUENCY RESPONCE	90 Hz ÷ 20 kHz (-10dB)
SENSITIVITY (1 m / 1 W)	91 dB
MAX SPL	107 dB (1 m)
COVERAGE ANGLE	90°

☐ White p/n 13133042

■ Black p/n 13100087

- · Two way speaker system with dome tweeter recommended for speech and background-music
- · 6" woofer with coaxial tweeter
- · Low impedance (8 Ω) 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
- · IP 44 protection

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

☐ White p/n 13133043

■ Black p/n 13100088

- · 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
- $\cdot\;$ Body in self-extinguishing plastic (UL 94V-0) and front metal grille
- · IP 44 protection

SPECIFICATIONS	PL 8X
POWER SELECTION	20 - 10 - 5 - 2,5 W (100 V)
CONSTANT VOLTAGE	100 V, 70 V
FREQUENCY RESPONCE	60 Hz ÷ 20 kHz (-10dB)
SENSITIVITY (1 m / 1 W)	93 dB
MAX SPL	109 dB (1 m)
COVERAGE ANGLE	80°



TWO-WAY CEILING SPEAKER 3.4 kg mm 516 mm/20.31" 516 mm/20.31" 437 mm/11"

p/n 13100043

MF 33EN is a two-way ceiling speaker designed for recess installation into ceilings or panels. It is especially suitable for broadcasting background music into commercial spaces, but also alarm messages thanks to the highly intelligible voice reproduction. It features a plastic cabinet with steel magnetic grille, extremely easy to install. A thermal fuse protects the integrity of the line in case of heat affecting the speaker. The terminal connection blocks, for input and output flameproof cables, are made of ceramic material.

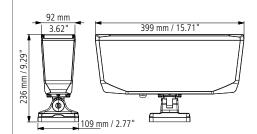
- · 2 x 3" fullrange transducers with 1" dome tweeter
- Power selectable (100 V): 40 W 20 W 10 W 5 W 2.5 W
- · 88 dB sensitivity
- · Colour black RAL 9005
- · Plastic body and steel grille
- · In/out ceramic terminal block
- · Thermal fuse protection

SPECIFICATIONS	MF 33EN
POWER SELECTION	40 W - 20 W - 10 W - 5 W - 2.5 W (100 V)
CONSTANT VOLTAGE	100 V, 70 V
FREQUENCY RESPONCE	80 Hz ÷ 20 kHz (-10dB)
SENSITIVITY (1 m / 1 W)	88 dB
MAX SPL	104 dB (1 m)
COVERAGE ANGLE	100° (Horiz) 160° (Ver)

WMF 33EN

TWO-WAY WALL MOUNT SPEAKER





p/n 13100046

WMF 33EN is a two-way wall mount speaker designed for both horizontal and vertical installation. It is especially suitable for broadcasting background music into commercial spaces, but also alarm messages thanks to the highly intelligible voice reproduction. It features a plastic cabinet with steel magnetic grille, extremely easy to install thanks to the smart support. A thermal fuse protects the integrity of the line in case of heat affecting the speaker. The terminal connection blocks, for input and output flameproof cables, are made of ceramic material.

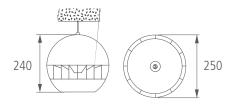
- $\cdot~2$ x 3" fullrange transducers with 1" dome tweeter
- $\cdot~$ Power selectable (100 V): 40 W 20 W 10 W 5 W 2.5 W
- · 88 dB sensitivity
- · Colour black RAL 9005
- · Plastic body and steel grille
- · In/out ceramic terminal block
- · Thermal fuse protection
- · Connections integrated in the wall support

SPECIFICATIONS	WMF 33EN
POWER SELECTION	40 W - 20 W - 10 W - 5 W - 2.5 W (100 V)
CONSTANT VOLTAGE	100 V, 70 V
FREQUENCY RESPONCE	80 Hz ÷ 20 kHz (-10dB)
SENSITIVITY (1 m / 1 W)	88 dB
MAX SPL	104 dB (1 m)
COVERAGE ANGLE	100° (Horiz) 160° (Ver)

BS 8 PENDENT BALL SPEAKER



2'300 g



p/n 13133054

- · Pendent 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 RESPONCE	160 Hz ÷ 12.5 kHz (-10dB)
SENSITIVITY (1 m / 1 W)	93 dB
MAX SPL	106 dB (1 m)
COVERAGE ANGLE	360°

BS 5EN COMPLIANT SUSPENDED SOUND PROJECTOR



2'790 g

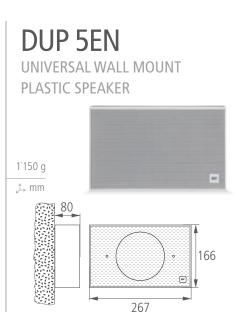




- \cdot 5" coaxial speaker for alarm voice messages broadcasting and high quality background music.
- · ABS cabinet with steel mesh grille
- · It can be installed both indoors and outdoors (IP 65 protection grade)
- · Equipped with transformer for 100 V (/ 70 V) constant voltage lines
- · Internal power 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 RESPONCE	80 Hz ÷ 20 kHz (-10dB)
SENSITIVITY (1 m / 1 W)	88 dB
MAX SPL	101 dB (1 m)
COVERAGE ANGLE	170°





p/n 13100019

CPR: 0068-CPPR-085/2017

- · 5.5" fullrange transducer.
- Power selectable (100 V): 6 W 3 W 1.5 W.
- · 92 dB sensitivity.
- · Colour white RAL 9016.
- · Plastic body and steel grille.
- · In/out ceramic terminal block.
- · Thermal fuse protection.

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

CERTIFIED

CPR: 1488-CPR-0488/W

CERTIFIED EN 54-24

CPR: 1488-CPR-0489/W

DU 60EN

WALL/CEILING UNIVERSAL STEEL SPEAKER



1'610 g





p/n 13133083

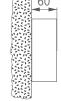
- · 5" fullrange transducer.
- Power selectable (100 V): 6 W 3 W 1.5 W 0.75 W.
- · 94 dB sensitivity.
- · Colour white RAL 9016.
- · Steel body and grille.
- · In/out ceramic terminal block.
- · Thermal fuse protection.

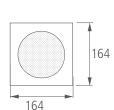
SPECIFICATIONS	DU 60EN
POWER SELECTION	6 - 3 - 1,5 - 0,75 W
CONSTANT VOLTAGE	100 V, 70 V
FREQUENCY RESPONCE	100 Hz ÷ 20 kHz (–10 dB)
SENSITIVITY (1 m / 1 W)	94 dB
MAX SPL	100 dB
COVERAGE ANGLE	180°

DU 50EN

WALL/CEILING UNIVERSAL STEEL SPEAKER







- $\cdot~$ 5" fullrange transducer.
- Power selectable (100 V): 6 W 3 W 1.5 W 0.75 W.
- · 91 dB sensitivity.
- · Colour white RAL 9010.
- · Steel body and grille.
- · In/out ceramic terminal block.
- · Thermal fuse protection.

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

DM 61

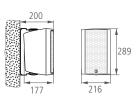
COMPACT TWO-WAY SPEAKER

p/n 13000050



- · 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

3'980 g يُہ mm



SPECIFICATIONS	DM 61
POWER SELECTION	25 - 12.5 - 7.5 - 5 - 2.5 W (100 V)
CONSTANT VOLTAGE	100 V, 70 V
FREQUENCY RESPONCE	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

COMPACT TWO-WAY SPEAKER

☐ White p/n 13000049

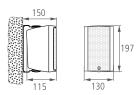
■ Black p/n 13000387



- 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

1'700 g ⊥ mm



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

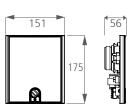


DU 31AT

FLUSH MOUNT WALL SPEAKER WITH POWER SELECTOR



600 g ⊥ mm



p/n 13000220

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

A 1331 SURFACE MOUNT FOR DU 31 / DU 31AT



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°

p/n 13360123

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



DU31 and A1331 flag mount support unidirectional



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

GS 60 GARDEN SPEAKER



4195 g ⊥ mm

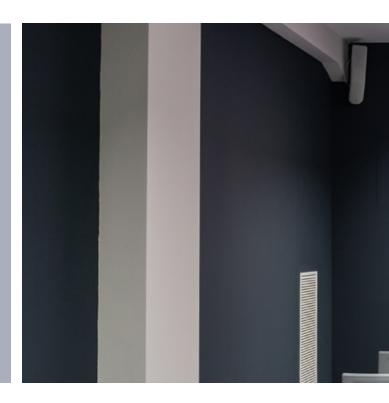


- Body made of linear low-density polyethylene
- · Coaxial transducer with 5,25"woofer and 1,20" tweeter
- Suitable for installation on different surfaces
- Can be used in constant voltage lines 100V / 70V or in low impedance (8 ohm)
- · Protection grade IP56

SPECIFICATIONS	GS 60
POWER SELECTION	32 - 16 - 8 - 4 - 2 - 1 W (100V)
CONSTANT VOLTAGE	100 V, 70 V
FREQUENCY RESPONCE	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.















			4	40000		
MODEL	DP 4EN	DP 1420EN	BD 2412EN	DP 5EN	BD 5EN	DP 4
TYPE	Projector	Proiettore Allum.	Projector Bidirec.	Projector	Projector Bidirec.	Projector
INSTALLATION	Wall o Flush Mounted					
COLOUR	Grey	Grey	Grey	White	White	Grey
SPEAKER	4"	5"	2 x 5"	5"	2 x 5"	5"
POWER NOM. / PROGRAM	10 W RMS / 40 W	20 W RMS / 40 W	10 W RMS / 20 W			
INPUT	100 V	100 V, 70 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
MAX. SOUND PRESSURE	101 dB	105 dB	101 dB	101 dB	99 dB	101 dB
ANGLE OF COVERAGE	180°	155°	130°*	210°*	210°*	210°
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

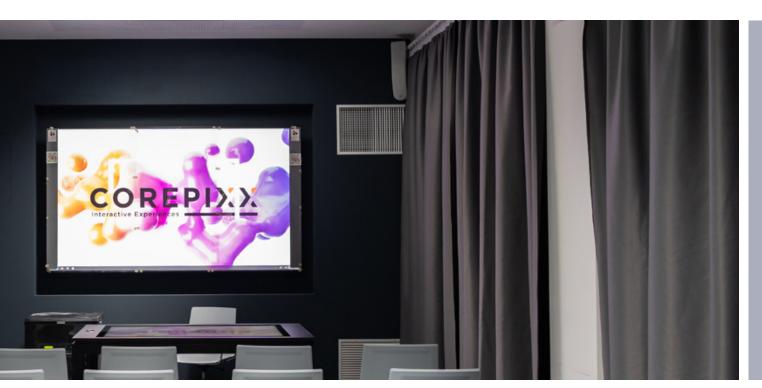






MODEL	CS 6520EN	CS 6940EN	CS 3082
TYPE	Column speaker two-way	Column speaker two-way	Column speaker two-way
INSTALLATION	Wall	Wall	Wall
COLOUR	White	White	White
SPEAKER	4 x 3.15" + 0.8"	8 x 3" + 0.75"	8 x 2" + 2 x 1"
POWER NOM. / PROGRAM	20 W RMS / 40 W	40 W RMS / 80 W	30 W RMS / 60 W
INPUT	100 V, 70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











MODEL	MR 52EN	MR 40T	MR 50T
TYPE	Compact two-way	Compact two-way	Compact two-way
INSTALLATION	Wall	Wall	Wall
COLOUR	White/Black	White/Black	White/Black
SPEAKER	5" + 1"	4" + 1"	5" + 1"
POWER NOM. / PROGRAM	30W - 15W - 7.5W - 3.75W	40 W IEC	60 W IEC
INPUT	100 V, 70 V	100 V, 70 V	100 V, 70 V
FREQUENCY RESPONSE	80 Hz ÷ 20 kHz	70 Hz ÷ 20 kHz	60 Hz ÷ 20 kHz
MAX. SOUND PRESSURE	103 dB	108 dB	110 dB
ANGLE OF COVERAGE	180°	100° (Horiz) 110° (Ver)	100° (Horiz) 110° (Ver)
PROTECTION / CONFORMS	EN 54-24	-	-







MODEL	MQ 100L	MQ 50C	MQ 80P
TYPE	Column speaker Three-way	Ceiling two-way	Projector two-way
INSTALLATION	Wall	Ceiling	Projector
COLOUR	White/Black	White	White/Black
SPEAKER	2 x 3.5" + 2 x 3.5" + 2x0.75"	5" + 1"	5" + 1"
POWER NOM. / PROGRAM	80 W RMS / 160 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 - 8 Ω
FREQUENCY RESPONSE	130 Hz ÷ 20 kHz	70 Hz ÷ 20 kHz	100 Hz ÷ 20 kHz
MAX. SOUND PRESSURE	112 dB	112 dB	114 dB
ANGLE OF COVERAGE	180° (Horiz) 60° (Ver)	120°	90° (Horiz) 60° (Ver)
PROTECTION / CONFORMS	-	-	IP 55

DP 4EN UNIDIRECTIONAL SOUND PROJECTOR 1'300 g 1'300 g 1'300 g 1'300 g

p/n 13100021



- · 4" fullrange transducer.
- Power selectable (100 V): 10 W 5 W 2.5 W.
- · 91 dB sensitivity.
- · Colour grey RAL 7035.
- · Flameproof ABS body, aluminum grille and bracket.
- · In/out ceramic terminal block.
- · Thermal fuse protection.
- · Protection grade IP55.

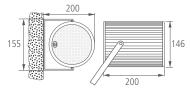
SPECIFICATIONS	DP 4EN
POWER SELECTION	10 - 5 - 2.5 W (100 V)
CONSTANT VOLTAGE	100 V
FREQUENCY RESPONCE	180 ÷ 16 kHz (-10dB)
SENSITIVITY (1 m / 1 W)	91 dB
MAX SPL	101 dB (1 m / POWER MAX)
COVERAGE ANGLE	180°

DP 1420EN

ALUMINIUM SOUND PROJECTOR







p/n 13133071



- · 5" fullrange transducer.
- Power selectable (100 V): 20 W − 10 W − 5 W − 2.5 W − 1.25 W.
- 92 dB sensitivity.
- · Colour grey RAL 7035.
- · Aluminium body, grille and bracket.
- · In/out ceramic terminal block.
- · Thermal fuse protection.
- · Protection grade IP66.

SPECIFICATIONS	DP 1420EN
POWER SELECTION	20 - 10 - 5 - 2.5 - 1.25 W (100 V)
CONSTANT VOLTAGE	100 V, 70 V
FREQUENCY RESPONCE	160 ÷ 20 kHz (-10dB)
SENSITIVITY (1 m / 1 W)	92 dB
MAX SPL	105 dB (1 m)
COVERAGE ANGLE	155°

BD 2412EN

p/n 13133074

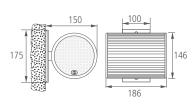
CERTIFIED EN 54-24 CPR: 1488-CPR-0641/W

ALUMINIUM BIDIRECTIONAL SOUND PROJECTOR



3'200 g

△ mm



- · 2 x 5" fullrange transducers.
- · Power selectable (100 V): 20 W 10 W 5 W.
- · 88 dB sensitivity.
- · Colour grey RAL 7035.
- · Aluminum body, grille and bracket.
- · In/out ceramic terminal block.
- · Thermal fuse protection.
- · Protection grade IP66.

SPECIFICATIONS	BD 2412EN
POWER SELECTION	20 - 10 - 5 W (100 V)
CONSTANT VOLTAGE	100 V, 70 V
FREQUENCY RESPONCE	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 13133076



- · 5" fullrange transducer.
- Power selectable (100 V): 20 W 10 W 5 W 2.5 W.
- · 88 dB sensitivity.
- · Colour white RAL 9016.
- · Flameproof ABS body, steel grille.
- · In/out ceramic terminal block.
- · Thermal fuse protection.
- · Protection grade IP65.

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 RESPONCE	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 13133077

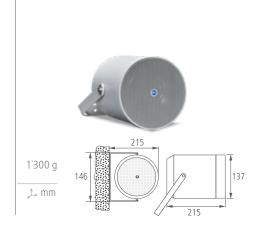
- CPR: 0068-CPR-058/2014
- · 2 x 5" fullrange transducers.
- Power selectable (100 V): 20 W 10 W 5 W 2.5 W.
- · 86 dB sensitivity.
- · Colour white RAL 9016.
- · Flameproof ABS body, steel grille.
- · In/out ceramic terminal block.
- · Thermal fuse protection.
- · Protection grade IP65.

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 RESPONCE	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

p/n 13000106

INDOOR/OUTDOOR SOUND PROJECTOR



- · Ideal for paging and background music
- $\cdot~$ 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	DP 4
POWER SELECTION	10 - 5 W (100 V)
CONSTANT VOLTAGE	100 V
FREQUENCY RESPONCE	180 ÷ 16 kHz (-10dB)
SENSITIVITY (1 m / 1 W)	91 dB
MAX SPL	101 dB (1 m / POWER MAX)
COVERAGE ANGLE	210°

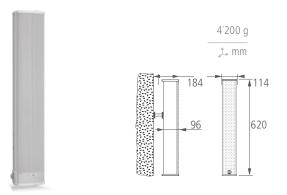
CS 6520EN

COLUMN SPEAKER TWO-WAY

p/n 13133079







- $\cdot~4$ x 3" fullrange transducers with 0.75" dome tweeter.
- · Power selectable (100 V): 20 W − 10 W − 5 W − 2.5 W − 1.25 W.
- · 93 dB sensitivity.
- · Colour white RAL 9003.
- Aluminium body, grille and bracket.
- In/out ceramic terminal block.
- Thermal fuse protection.
- Protection grade IP66.

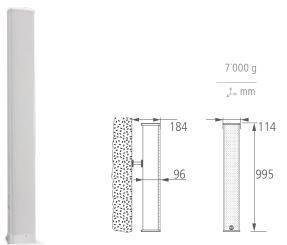
CS 6940EN

p/n 13105006

CERTIFIED EN 54-24 CPR: 1488-CPR-0490/W



COLUMN SPEAKER TWO-WAY

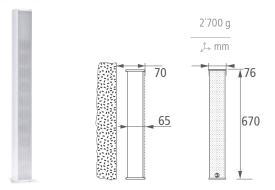


- · 8 x 3" fullrange transducers with 0.75" dome tweeter.
- Power selectable (100 V): 40 W 20 W 10 W 5 W 2.5 W.
- · 95 dB sensitivity.
- · Colour white RAL 9003.
- · Aluminium body, grille and bracket.
- · In/out ceramic terminal block.
- · Thermal fuse protection.
- · Protection grade IP66.

CS 3082

p/n 13000232

COLUMN SPEAKER SLIM LINE



- · 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	CS 6520EN	CS 6940EN	CS 3082
POWER SELECTION	20 - 10 - 5 - 2.5 -1.25 W (100 V)	40 - 20 - 10 - 5 - 2.5 W (100 V)	30 W - 20 W - 10 W
CONSTANT VOLTAGE	100 V, 70 V	100 V, 70 V	100 V
FREQUENCY RESPONCE	140 ÷ 20 kHz (-10dB)	140 ÷ 20 kHz (-10dB)	200 - 20 kHz
SENSITIVITY (1 m / 1 W)	93 dB	95 dB	91 dB
MAX SPL	105 dB (1 m)	109 dB (1 m)	106 dB (1 m / POWER MAX)
COVERAGE ANGLE	185° (ORIZ): 47° (VERT)	194° (HORIZ): 30° (VERT)	180° (HORIZ): 30° (VERT)

AC WM-CS

p/n 13360206

COUPLE OF SWIVEL BRACKETS

· Swivel brackets for the installation of CS 3082 speaker





3'000 g

MR 52EN B MR 52EN W

■Black p/n 13100011

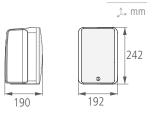
CPR: 1488-CPR-0591/W

☐White p/n 13100010

2 WAYS BASS REFLEX MONITOR SPEAKERS



- · 5" woofer with 1" dome tweeter.
- Power selectable (100 V): 30 W 15 W 7.5 W 3.75 W.
- · 89 dB sensitivity
- · Colour white RAL 9016 or black RAL 9005.
- · Flameproof ABS body, steel grille.
- · In/out ceramic terminal block.
- Thermal fuse protection.



MR 40T MR 40T W

TWO-WAY BASS REFLEX SPEAKER



■ Black p/n 13100035

☐ White p/n 13100037



- · 108 dB max SPL
- · 70 ÷ 20000 Hz frequency range
- · 110° x 100° coverage angles
- 1 x 4" woofer (1" v.c.)
- 1 x 1" dome tweeter (0.8" v.c.)
- · Body in self-extinguishing plastic
- · Wall mount accessory included
- · M6 inserts available for optional U bracket
- · 4 pole EUROBLOCK connector (audio input and parallel link output)



MR 50T MR 50T W

TWO-WAY BASS REFLEX SPEAKER



■ Black p/n 13100039

☐ White p/n 13100041

- · 60W AES power handling
- · 110 dB max SPL
- · 60 ÷ 20000 Hz frequency range
- · 110° x 100° coverage angles
- · 1 x 5" woofer (1" v.c.)
- 1 x 1" dome tweeter (0.8" v.c.)
- · Body in self-extinguishing plastic
- · Wall mount accessory included
- · M6 inserts available for optional U bracket
- · 4 pole EUROBLOCK connector (audio input and parallel link output)



SPECIFICATIONS	MR 52EN	MR 40T	MR 40T
POWER SELECTION	30 - 15 - 7.5 - 3.75 W (100 V)	20 - 10 - 5 - 2.5 W (100 V)	20 - 10 - 5 - 2.5 W (100 V)
CONSTANT VOLTAGE	8 Ω	8 Ω	8 Ω
FREQUENCY RESPONCE	80 ÷ 20 kHz (-10dB)	70 Hz ÷ 20 kHz (-10dB)	60 Hz ÷ 20 kHz (-10dB)
SENSITIVITY (1 m / 1 W)	89 dB	86 dB	87 dB
MAX SPL	103 dB (1 m)	105 dB (1 m)	107 dB (1 m)
COVERAGE ANGLE	180°	110° (HORIZ.); 100° (VERT.)	110° (HORIZ.); 100° (VERT.)

MA 4 - MA 4W

WALL MOUNT BRACKET

MA 5 - MA 5W

WALL MOUNT BRACKET

■MA 4 Black p/n 13360367 □MA 4W White p/n 13360368

Bracket for mounting one MR 40T speaker on the wall

■MA 5 Black p/n 13360369

□MA 5W White p/n 13360370

Bracket for mounting one MR 50T series speaker on the wall



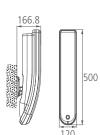
MQ 100L W MQ 100L B

3 WAY COLUMN LOUDSPEAKER

☐ White p/n 13000187

■ Black p/n 13000186







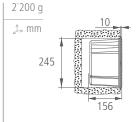
- 3 way column array speaker system providing natural high intelligibility hi-fidelity sound of both speech and music
- Body is made of self-extinguishing (HB level) high density polystyrene
- The wide horizontal coverage angle (180°) and the 60° asymmetrical vertical dispersion allow the correct sound 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	MQ 100L-W - MQ 100L-B
POWER SELECTION	40 - 20 - 10 - 5 W (100 V)
CONSTANT VOLTAGE	100 V, 70 V
FREQUENCY RESPONCE	130 - 20 kHz (-10dB)
SENSITIVITY (1 m / 1 W)	93 dB
MAX SPL	112 dB (1 m / POWER MAX)
COVERAGE ANGLE	180° (HORIZONTAL): 60° (VERTICAL)

MQ 50C W 2 WAY CEILING SPEAKER

☐ White p/n 13000081









- 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 fi lter at 150 Hz
- · Angle of coverage: 120° horizontal x 120° vertical
- · Cabinet: Plastic material self-extinguishing, Tuned Alu-dome

CDECIFICATIONS

SPECIFICATIONS	MQ 50C
POWER SELECTION	30 - 20 - 10 - 5 W (100 V)
CONSTANT VOLTAGE	100 V, 70 V
FREQUENCY RESPONCE	70 ÷ 20 kHz (-10dB)
SENSITIVITY (1 m / 1 W)	91 dB
MAX SPL	112 dB (1 m)
COVERAGE ANGLE	120°



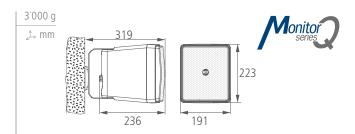
MQ 80P W MQ 80P B

☐ White p/n 13000096

■ Black p/n 13000094

2 WAY INDOOR OUTDOOR SPEAKER



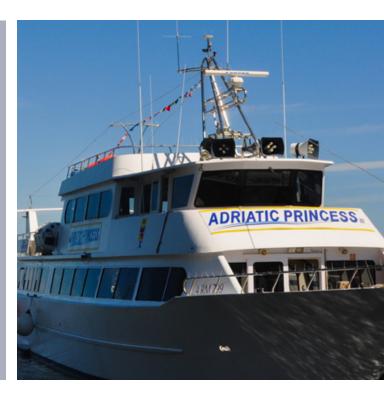


- Speaker: woofer 5" horn-loaded, 1" horn-loaded compression driver with phase-plug loaded on CD horn
- · Power/RMS: 120/60 W Bypass
- · Impedance: [Bypass] 8 Ω
- · [70,7V]: 15W 10W 5W 2,5W
- · Tuning frequency: 100 Hz
- · Crossover frequency: 3000 Hz Crossover: Notch/6 dB/oct
- · Cabinet: self-extinguishing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

SPECIFICATIONS	MQ 80P
POWER SELECTION	30 - 20 - 10 - 5 W (100 V)
CONSTANT VOLTAGE	100 V, 70 V
FREQUENCY RESPONCE	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	MH 61EN	HD 6045EN	HD 1110
TYPE	Round	Rectangular	Rectangular	Round
MATERIAL	ABS	ABS	Fiberglass	ABS
SPEAKER	1.5" Comp. Driver	1.5" C. Driver + 6.5" Woofer	2" Comp. Driver	1.5" Comp. Driver
POWER NOM. / PROGRAM	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 - 25 V	8 Ω
FREQUENCY RESPONSE	340 Hz ÷ 9 kHz	100 Hz ÷ 20 kHz	200 Hz ÷ 10 kHz	900 Hz ÷ 13 kHz
MAX. SOUND PRESSURE	117 dB	115 dB	124 dB	114 dB
ANGLE OF COVERAGE	135°	70° (Horiz) 90° (Ver)	60° (Horiz) 50° (Ver)	175°
PROTECTION / CONFORMS	IP 66, EN 54-24	IP 66, EN 54-24	IP 65, EN 54-24	IP 65







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



HD 21EN PLASTIC HORN SPEAKER WITH DRIVER



2'000 g

△ Ø 211 x 280 mm

MH 61EN 2 WAY PLASTIC HORN SPEAKER



7'000 g

 $_{\ \ \, \searrow}$ 332 x 418 x 391 mm

HD 6045EN LONG-THROW MULTI CELL HORN SPEAKER



10.500 g

___ 620 x 475 x 564 mm

p/n 13133075



CE

- · 1.5" compression driver.
- · Power selectable (100 V): 30 W − 15 W − 7.5 W − 3.75 W.
- · 104 dB sensitivity.
- · Colour grey RAL 7035.
- Plastic body.
- · In/out ceramic terminal block.
- · Thermal fuse protection.
- · Protection grade IP66.

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

p/n 13100042



- · Woofer da 6.5" con tweeter da 1".
- · Potenza selezionabile (100 V): 60 W − 30 W − 15 W − 7.5 W.
- · 99 dB di sensibilità.
- · Colore grigio RAL 7035.
- · Corpo in plastica.
- · Connettore ceramico per ingresso e uscita.
- · Fusibile termico di protezione.
- · Grado di protezione IP66.

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



- · 4 x 2" compression drivers.
- · Rated power (100 V): 200 W.
- · 101 dB sensitivity.
- · Colour white RAL 9003.
- · Fiberglass body.
- · In/out ceramic terminal block.
- · Thermal fuse protection.
- · Protection grade IP65.

SPECIFICATIONS	HD 6045EN
POWER SELECTION	200 W (100 W con linea 70 V)
CONSTANT VOLTAGE	100 V (/ 70 V)
FREQUENCY RESPONCE	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

420 g

△ Ø 93 x 110 mm



HD 310T ALUMINIUM HORN SPEAKER WITH DRIVER

3'100 g

△ Ø 310 x 315 mm



p/n 13133030

- $\,\cdot\,\,$ 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 RESPONCE	900 ÷ 13 kHz (-10dB)
SENSITIVITY (1 m / 1 W)	101 dB
MAX SPL	114 dB (1 m)
COVERAGE ANGLE	175°

p/n 13130001

- · 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
- $\cdot\,\,$ Rear cover in UV stabilised self-extinguishing ABS, RAL 7035 grey

SPECIF	ICATIONS	HD 310T
POWER S	ELECTION	30 - 20 - 15 - 10 - 5 - 2.5 W (100 V)
CONSTAN	IT VOLTAGE	100 V; 70 V
FREQUEN	CY RESPONCE	240 ÷ 10 kHz (-10dB)
SENSITIVI	TY (1 m / 1 W)	108 dB
MAX SPL		123 dB (1 m)
COVERAG	SE ANGLE	80°

HD 410T 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
- $\cdot\;$ 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 RESPONCE	180 ÷ 7 kHz (-10dB)
SENSITIVITY (1 m / 1 W)	112 dB
MAX SPL	130 dB (1 m)
COVERAGE ANGLE	90°



HD 3216T

PLASTIC HORN SPEAKER WITH DRIVER AND TRANSFORMER



1'870 g

_____ 315x 170 x 322 mm

p/n 13133037

- · Compact speaker with high directivity and efficiency for intelligible speech reproduction
- Driver impedance 8 Ω
- · Selector accessible on rear cover
- \cdot 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 RESPONCE	250 ÷ 10 kHz
SENSITIVITY (1 m / 1 W)	108 dB
MAX SPL	122 dB
COVERAGE ANGLE	130° (HORIZONTAL); 60° (VERTICAL)

D 5076

DRIVER UNIT

- · 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

p/n 13330006

50 V MULTI-TAPPED TRANSFORMER

- · 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, anthracit
- The maximum depth of the volume control circuits are measured between the inner side of the front panel

TD 30 30 W UNIVERSAL LINE TRANSFORMER

p/n 13360046



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 13360047



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 240 240 W UNIVERSAL LINE TRANSFORMER

p/n 13360049



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

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 20W/100VTRANSFORMER 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 13160033

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 13160035

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 13160036

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

TL 128 120 W LINE TRANSFORMER



- 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 13360050

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 RESPONCE	60 ; 18.000 Hz (± 3 dB)

$CP \ 52 \ {\scriptstyle 5} \ {\scriptstyle position} \ {\scriptstyle 2} \ {\scriptstyle way} \ {\scriptstyle rotary} \ {\scriptstyle switcher}$



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

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 FV	CR 2628	CR 2642
Part number	17170179	17170129	17170081	17170082
Туре	9 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
Height	470 mm	800 mm	1600 mm	2000 mm
Weight	24 Kg	30 Kg	54 Kg	68 Kg
Max load	25 Kg mountable on rack	100 Kg	320 Kg	350 Kg
Ventilation system	Natural ventilation on sides	Thermostat controlled	Thermostat controlled	Thermostat controlled
Thermal dissipation 25 °c	100 W	3130 W	3280 W	3320 W
Thermal dissipation 35 °c	150 W	2070 W	2160 W	2180 W
Included accessories	-	4 wheels with braking system	-	-
Model door	(included)	AK 2615V	AK 2628V	AK 2642V
Part number door	-	-17100008	-17100009	-17100010



CR 2609

p/n 17170179

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 enclouseres 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.



- Front ventilation panels
- RAL 9005 Nero

PU₂ p/n 17170146



- 2U Closure Panel
- RAL 9005 Nero

PU₃ p/n 17170147



- · 3U Closure Panel
- · RAL 9005 Nero

PU 4 p/n 17170148



- · 4U Closure Panel
- · RAL 9005 Nero

IM 2220

p/n 13360089

PORTABLE IMPEDANCE TESTER



- 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 ½ 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, ALCALINE)
DIMENSIONS	168 x 110 x 62 mm
WEIGHT	0,5 Kg

RR 2601

p/n 17360038

RACK WHEELS KIT

- · Wheels for RCF rack cabinets CR 2628 and CR 2642.
- \cdot 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

p/n 17360039

RACK SUPPORTS

· 1 U accessory for installation in RCF CR2600 series racks



BH 1042

p/n 17360040

BATTERY HOLDER

· Universal battery holder for RCF series "CR2600"



AC 1503

p/n 13360112

CERAMIC TERMINAL WITH THERMAL FUSE

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





CJ 428E

p/n 14380021

FIRE RESISTANT DATA CABLE

Shielded 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 annealed copper conductors with 0.8 sqmm section. For fixed indoor installations in normal or humid environments. Red external sheath. Sold in coils of 200 m.



CJ 428CAT p/n 12399047

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 0.63 sgmm (AWG22) section. For fixed indoor installations in normal or humid environments. Red external sheath. Sold in coils of 200 m.



CV 225

p/n 14380032

SPEAKER CABLE 100V

The CV Series cables are suitable for the transmission of electrical signals and commands for those applications where maximum security is required in situations of fire alarm. They ensure the transmission of the signal to emergency speakers even when exposed to flames, allowing the safe evacuation of the environments where they are installed. The CV Series cable are suitable for fixed installation indoors in wet or normal environments, and temporarily outside. They can be installed on platforms, pipes, conduits and similar systems.

CA 2-2-C

p/n 12399043

SPEAKER CABLE

· Shielded bipolar cable



CA 2-C

p/n 12399042

SPEAKER CABLE

· Shielded bipolar cable



AR 2605

p/n 17360027

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



MOBILE AMPLIFICATION

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



MG 90 10W MEGAPHONE

p/n 13133081



- · 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
- $\,\cdot\,\,$ 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)

70



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

		INSTALLATION HEIGHT OF LOUDSPEAKERS					
p/n	MODEL	3,0 METRES	3,5 METRES	4,0 METRES			
13133045	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			
13110214	PL 60	14 m ²	26 m ²	41 m ²			
13133042	PL 6X	20 m ²	38 m ²	56 m ²			
13133043	PL 8X	22 m ²	44 m ²	66 m ²			
13000081	MQ 50C	25 m ²	47 m ²	73 m ²			
13133064	DU 50EN	10 m ²	18 m ²	28 m ²			
13133078	BS 5EN	10 m ²	18 m ²	28 m ²			
13133065	PL 70EN	16 m ²	30 m ²	46 m ²			
13133082	PL 68EN	16 m ²	28 m ²	43 m ²			
13100009	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.

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RC 3005	12399044	13	HD 410T	13133041	62	MA 4	13360367	57	AC 501DK	14380035	26	EL 7001	63531167	10
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IT 3010	12399049	13	PL 8X	13133043	46	MA 5	13360369	57	BM 3804FM	14380037	13			
MP 341	12401005	29	PL 40	13133045	45	MA 5W	13360370	57	D 5076	15110017	63			
MP 301	12401006	29	BS 8	13133054	48	MD 7800	14115013	22	PR 4093	17100003	38			
MP 302	12401007	29	PL 50	13133060	45	HE 2006	14115023	23	PS 6648	17100006	11			
MP 321	12401008	28	DU 50EN	13133064	49	MC 5054	14115024	22	LT 7208EN MKII	17100015	9			
DM 41	13000049	50	PL 70EN	13133065	44	MC 4064	14115025	22	OT 3500	17120056	26			
DM 61	13000050	50	DP 1420EN	13133071	54	MC 5002	14115026	22	P AER1	17130149	67			
MQ 50C W	13000081	58	BD 2412EN	13133074	54	TX 4016	14250008	23	CR 2628	17170081	66			

Note		



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