

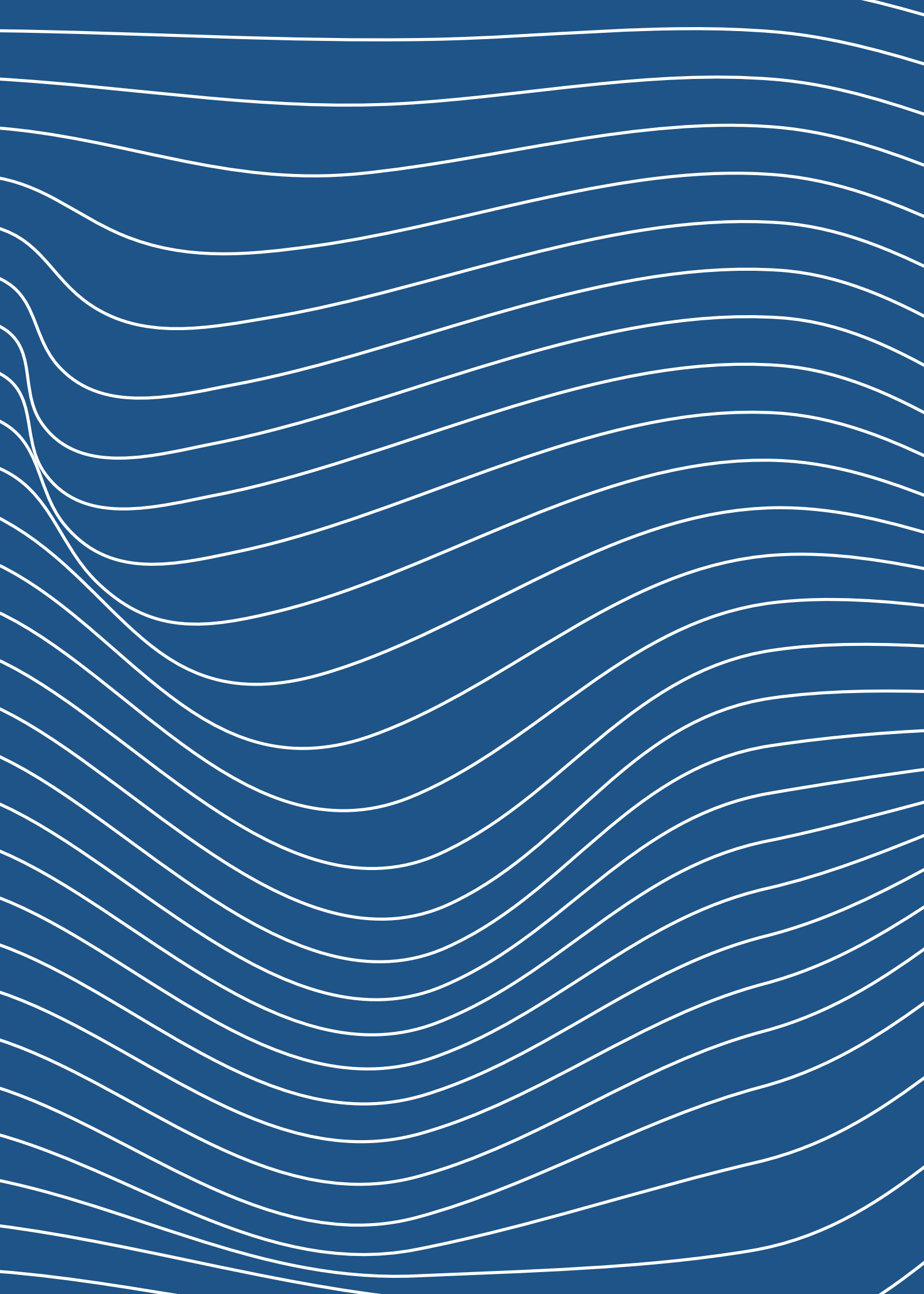
ITC[®]

AUDIO & ROOM MANAGEMENT



AUDIO








AUDIO & ROOM MANAGEMENT

To **make big things**,
we have not only to **act**,
but also to **dream**:
not only to **design**,
but also to **create**.

More than
30 years' experience
in **public address**
and **room automation**
for accommodation
facilities.



The ITC world

Established in 1985, I.T.C. srl is dedicated to the **development, manufacturing and distribution** of premier audio and hotel room automation products. The endless search for new technologies, the constant control over quality of products and services provided, have made I.T.C. a leading company in the market of sound reinforcement, multimedia and building automation systems.

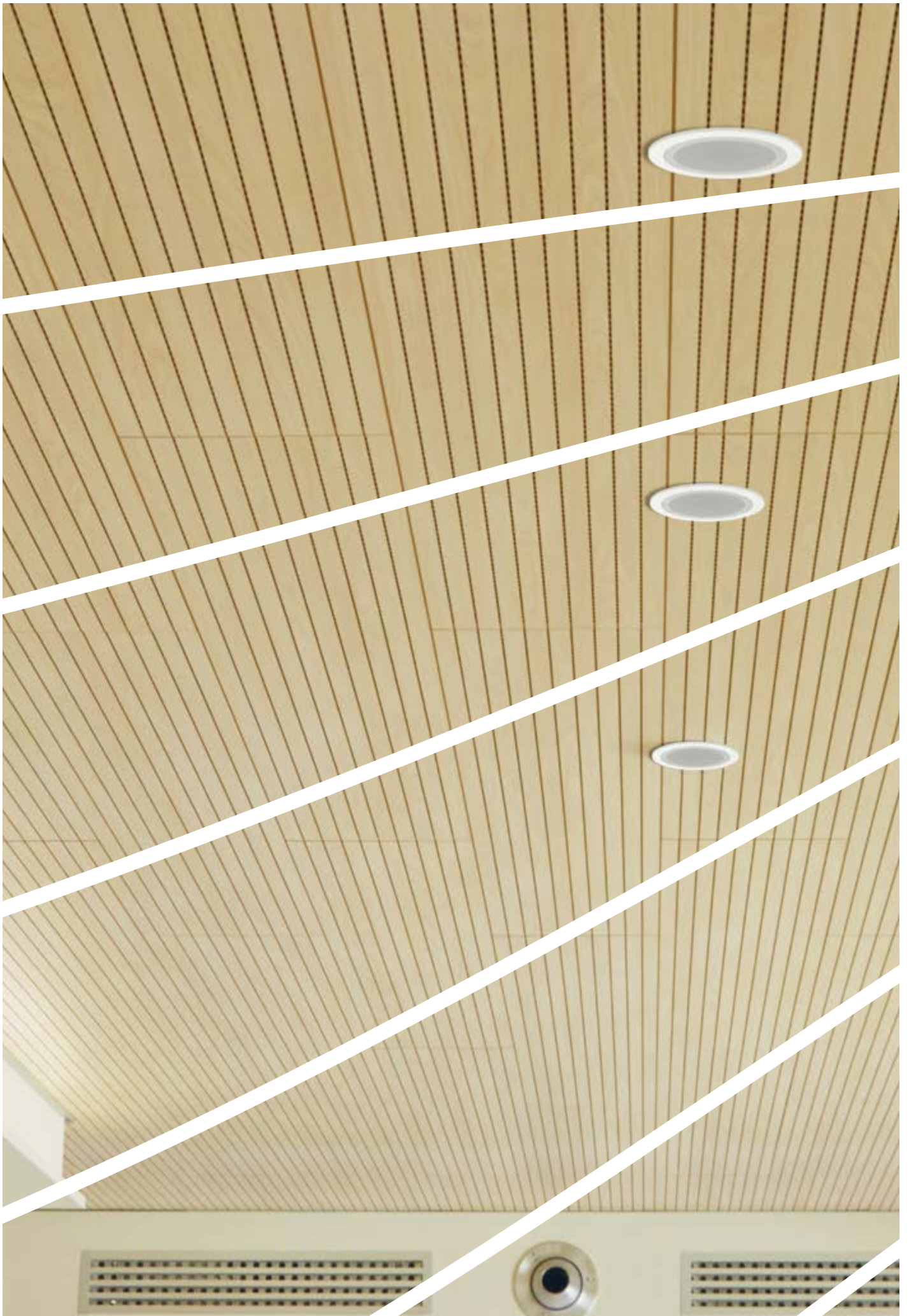
The Company 's headquarters are located in Recanati (Province of Macerata), Regione Marche, **Central Italy**. The area hosts small and medium-sized companies that play a key role in the development and realisation of large industrial projects.

Whether you install simple **sound diffusion systems** in private houses, announcement systems for large malls, audio-video systems for Convention Centres or **room automation systems** for hotels, hospitals and nursing homes, I.T.C. is always with you, with the efficiency given by our deep knowledge of the market, and with a strong motivation to extend

our presence worldwide. Trusted by our Clients, we are proud to be, think and act as a **"MADE IN ITALY"** company. Young, qualified and motivated personnel, constantly trained, allow I.T.C. to provide the best solutions and services to the market.

I.T.C. has got a network of **13 specialised agencies and 22 technical assistance service companies** all over Italy in order to guarantee **pre and post-sales activities** and constant assistance to designers, contractors and installers, to illustrate product applications and provide upgrade information on manuals and installation diagrams.







Fields

**Over 100.000
hotel rooms
and 5000 audio
systems realized**

AUDIO

Designing, producing and providing amplifying systems is our bread and butter. The audio department, with its dedicated technicians and engineers, daily takes care of supporting the clients on designing and achieving **any type of audio system for any need**. The entire line of **EN54 products** makes ITC the perfect partner also for sound evacuation systems for any space, big or small. Thanks to some external companies' partnership, we are able to design and supply **also multimedia audio/video systems**.

HOTEL AUTOMATION

I.T.C.'s **GRMS (Guest Room Management System)** department boasts over 30 years of experience on the most **advanced technologies** available on the market for our products, in order to give to our customers the possibility to **simplify and automate** their daily work; in doing that, they can save on electric and thermal energy and staff management. Thanks to GRMS department's technicians and engineers, the activity of **research and development** is very active. With our systems it is possible to manage from the simple access control to the air-conditioning, lights and alarms control both in the rooms and in the communal areas.

Energy saving, safety and comfort.

Take your time and relax, our system will take care of the rest.

Energy saving, safety and comfort are the main advantages that our systems provide.

A centralized room temperature control, with a pre-programmed temperature profile, without affecting room comfort, may provide sensible energy cost savings.

Room security is guaranteed by a coded access control, and by sensors on doors and windows to provide a remote alert, as well as guest's safety by means of SOS switches in the bathroom in case of help needed.

CUSTOMER CARE

ITC has a sales and technical assistance network consisting in Sales Agencies and Service Centres covering the whole national territory. We assist our customers from system design to after-sales service with competence and professionalism. Our staff is always available to provide information and suggestions to help during the process of designing, installation and configuration of the system.



Plus



Audio

Our systems are dedicated to make **quality life better.**

Whether it is about a public address system on a big mall, an audio-video system for a conference room, an EN54 evacuation system in a hospital, a small sound system on a restaurant or on a private residence, ITC can provide you the **knowledge** and the **experience** in order to give you **efficient** and **solid products** at the **right price.**

LEONARDO



CSE

cod. 1100-101010



C8MSE

cod. 1100-111010



MZSE

cod. 1100-121010



BMSE

cod. 1100-131010



PMSE

cod. 1100-141010



QP44819

cod. 1100-142010



UPS1

cod. 1100-151010



UPS2

cod. 1100-152010



UPS3

cod. 1100-153010

LEONARDO MINI



LEONARDOMINI

cod. 1100-107010



BM2

cod. 1800-341010



BM2E

cod. 1800-341020



IC4/2

cod. 1800-304110



LEONARDOMAXI

cod. 1100-20X000



FLLM

cod. 1100-200010

LEONARDO MAXI



BMSLM

cod. 1100-200012



BMTLM

cod. 1100-200013



PMELM

cod. 1100-200014



BMTELM

cod. 1100-200015



BMTEGLM

cod. 1100-200016



ASLLM

cod. 1100-200021



BLLM

cod. 1100-200022



IALM

cod. 1100-200023



SGLM

cod. 1100-200024



MSLM

cod. 1100-200025



MRVLM

cod. 1100-200026



IFOLM

cod. 1100-200027



ME6LM

cod. 1100-200028



ACOLLPC

cod. 1100-200020



MET

cod. 1100-200017



DC230 / T10EN

cod. 1900-230061



DC185 / T6EN

cod. 1900-185061



DCSB20 / T10EN

cod. 1900-230062



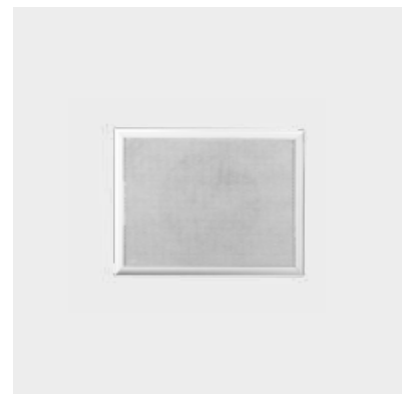
DCSB20 / T6EN

cod. 1900-185064



DC20 / T6EN

cod. 1900-185063



DP2520 / T6EN

cod. 1900-252061



DT165 / T20EN

cod. 1900-165203



SPJ-52WHBS

cod. 8105-131030



PSS / T20EN

cod. 1900-146201



PSS / T15EN

cod. 1900-198151



PRE5

cod. 1300-405010



A120MD

cod. 1300-112040

AMPLIFIERS AND PREAMPS



A240MD

cod. 1300-124020



MP2120 BT

cod. 1300-212020



UP120D

cod. 1400-112010

POWER UNITS



UP240D

cod. 1400-124010



UP500D

cod. 1400-150020



UP2120D

cod. 1400-212020



UP2240D

cod. 1400-224010



UP2500D

cod. 1400-250010



UP4120D

cod. 1400-412020



SRCD

cod. 1500-131010



PAL

cod. 1600-111010



IPV

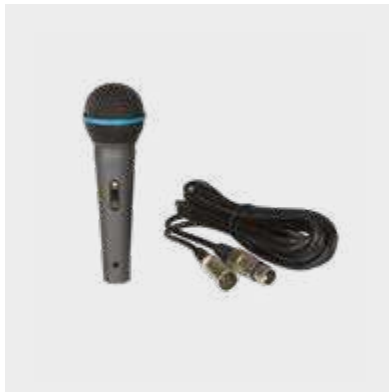
cod. 1600-121010

ACCESSORIES



MCN

cod. 1800-151010



MI50

cod. 1800-111010



MI500

cod. 1800-112010



MI550

cod. 1800-113010



MT1000

cod. 1800-141010



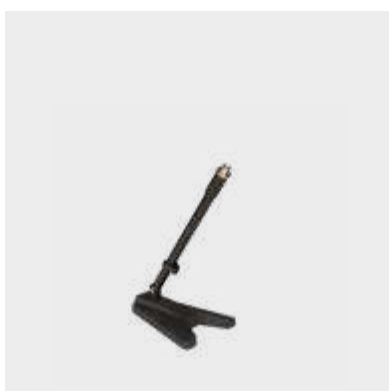
MG

cod. 1800-161010



BMG

cod. 1800-041010



AT

cod. 1800-011010



APG

cod. 1800-021010



APD

cod. 1800-031010



PMS

cod. 1800-001010



PMP

cod. 1800-002010



RMI

cod. 1800-211011



RML

cod. 1800-211011



MHS

cod. 1800-205010



BM1

cod. 1800-351010



SI2C

cod. 1800-361010



DC230 / T10EN

cod. 1900-230061

EN54 SPEAKERS



DC185/T6EN

cod. 1900-185061



DP2520 / T6EN

cod. 1900-252061



DT165 / T20EN

cod. 1900-165203



SPJ-52WHBS

cod. 8105-131030



PSS / T20EN

cod. 1900-146201



PSS / T15EN

cod. 1900-198151

STANDARD SPEAKERS



DC10 / T6

cod. 1900-210061



DC20 / T6

cod. 1900-120061



DC23 / T10

cod. 1900-123101



DCR27 / T40

cod. 1900-227401



DCQ25 / T40

cod. 1900-254401



DCP2017 / T6

B cod. 1900 - 241061
N cod. 1900 - 241062
G cod. 1900 - 241063



DCP2017 / T10

B cod. 1900 - 241101
N cod. 1900 - 241102
G cod. 1900 - 241103



DCP2017 / 2T10

B cod. 1900 - 2421011
N cod. 1900 - 2421012
G cod. 1900 - 2421013



DP2512 / T6

B cod. 1900 - 251061
N cod. 1900 - 251062
G cod. 1900 - 251063



DP2512 / T10

B cod. 1900 - 251101
N cod. 1900 - 251102
G cod. 1900 - 251103



CP / T20E

B cod. 1900 - 322201
N cod. 1900 - 322202



CPM / T30

B cod. 1900-353301



CPM / T40

B cod. 1900-354401



CPM / T60

B cod. 1900-356601



CPA / T20

B cod. 1900 - 372201
N cod. 1900 - 372202



CPA / T30

B cod. 1900 - 373301
N cod. 1900 - 373302



DS25 / T20

cod. 1900-262201



CPS / T10

cod. 1900-322203



PS / T10

cod. 1900-271101



PSS / T20

cod. 1900-171201



CS2 / T10

cod. 1900-142101



CS2 / T10

cod. 1900-142101



CS4 / T20

cod. 1900-144201



CS6 / T30

cod. 1900-146301



CS8 / T40

cod. 1900-148401



DT24 / T30

cod. 1900-285303



DT20 / T20

cod. 1900-284203



DT14 / T10

cod. 1900-283103



DT4427 / T30

cod. 1900-286303



DT4427 / T60

cod. 1900-287603



DTV / T20

cod. 1900-200202



DTV / T20SE

cod. 1900-400202



DTV / P

cod. 4300-200202



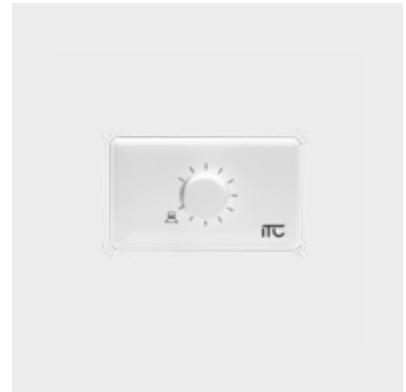
DTV / BT20

cod. 1900-600202



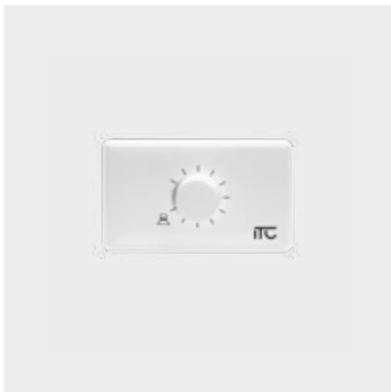
TRSD20W

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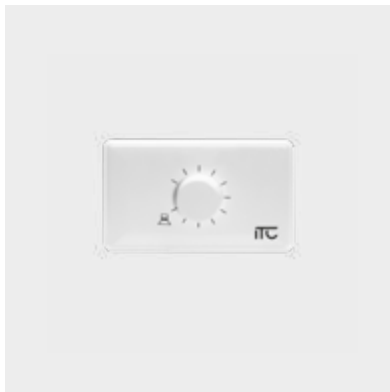
RVI30

cod. 1600-211010



RVI60

cod. 1600-211020



RVI100

cod. 1600-211030



RVP80

cod. 1600-201010

ATTENUATORS AND TRANSFORMERS



TL6

cod. 1900-006010



TL10

cod. 1900-010010



TL30

cod. 1900-030010

LAUDIO



LAUDIO SM503AG

cod. 4200-000010



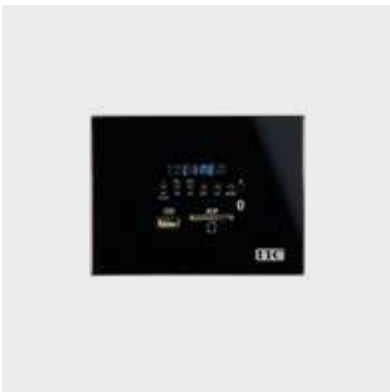
LAUDIO SM503AN

cod. 4200-000020



LAUDIO SM503VB

cod. 4200-000030



LAUDIO SM503VN

cod. 4200-000040



DCP2017 / P

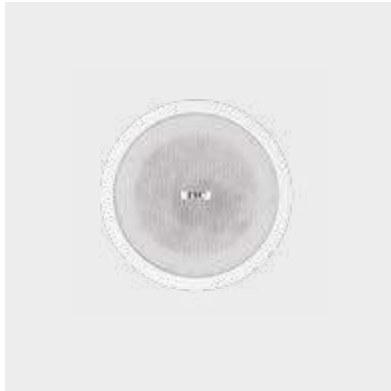
B cod. 4300-241201
N cod. 4300-241202
G cod. 4300-241203



DC20 / P

cod. 4300-120201

503 MODULE AND ACCESSORIES



DC23 / P

cod. 4300-123201



DP2512 / P

B cod. 4300-251201
N cod. 4300-251202
G cod. 4300-251203



PS / P

cod. 4300-271201



DT1812 / P

cod. 4300-281103



BMCP / A

cod. 3200-221010



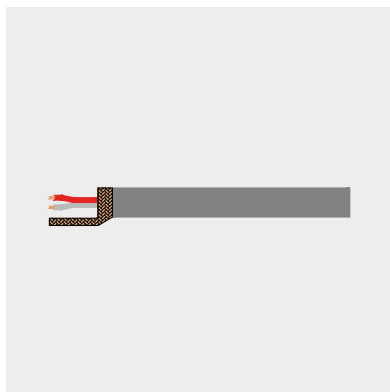
CA10D

cod. 3400-011010



RVIC

cod. 3300-331000



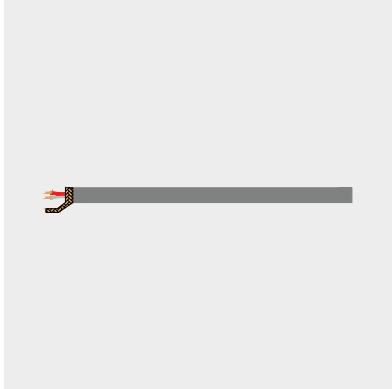
C2022

cod. 1600-023100



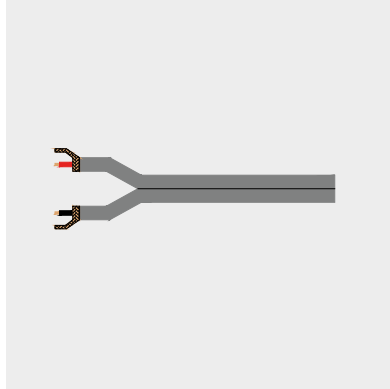
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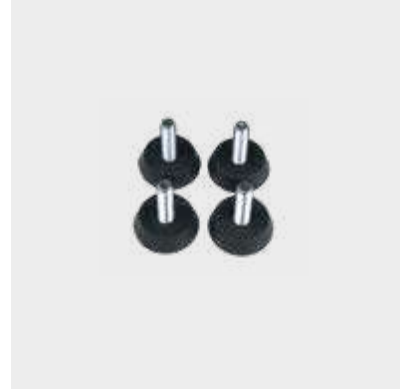
C2008

cod. 1600-021100



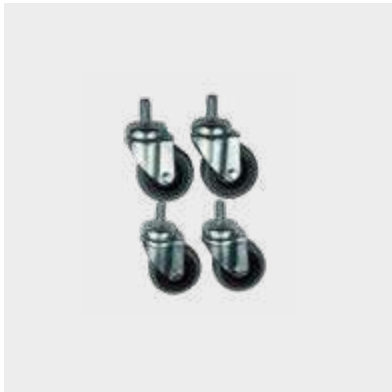
C2014

cod. 1600-022100



KP

cod. 1200-111010



KR

cod. 1200-111010



KZ

cod. 1200-113010



CS2

cod. 1200-181020



AR12/20/24/30/36/42

cod. 1200 - 101120
cod. 1200 - 101200
cod. 1200 - 101240
cod. 1200 - 101300
cod. 1200 - 101360
cod. 1200 - 101420



PAR12/20/24/30/36/42

cod. 1200 - 121120
cod. 1200 - 121200
cod. 1200 - 121240
cod. 1200 - 121300
cod. 1200 - 121360
cod. 1200 - 121420



PCP12/20/24/30/36/42

cod. 1200 - 131120
cod. 1200 - 131200
cod. 1200 - 131240
cod. 1200 - 131300
cod. 1200 - 131360
cod. 1200 - 131420



PS1

cod. 1200-171010



TPA6

cod. 1200-144010



PFA1

cod. 1200-152010



PFP1

cod. 1200-153010



PFC 1/2/3/4

cod. 1200 - 151010
cod. 1200 - 151020
cod. 1200 - 151030
cod. 1200 - 151040



PA 1/2/3

cod. 1200 - 161010
cod. 1200 - 161020
cod. 1200 - 161030



KSA

Cod. 1200-211010

Leonardo

Modular evac system for big installations, certified EN54.

INTRODUCTION

The EN 60849 Standard, whose title is "Electroacoustic systems applied to emergency services" establishes the technical criteria to be adopted in systems and equipment used to manage announcements for a quick and smooth evacuation of buildings in case of emergencies. A typical example is an emergency announcement system to be activated in case of fire.

Local laws and regulations establish the kind of buildings in which such a system is required. Generally they are:

- Shopping Malls
- Schools
- Underground Stations
- Hospitals and Nursing Homes;
- Theatres, etc...

In order to comply with the regulations, the sound reinforcement system must provide the following main functions (for more detailed information refer to the EN60849 contents).

It must:

- monitor the operation of amplifiers;
- control the efficiency of speaker lines;
- broadcast emergency announcements in manual and automatic mode;
- monitor the operation of the emergency microphone unit;
- activate backup amplifiers in case of malfunctions of the operating amplifiers;
- ensure the intelligibility of emergency messages regard-

- less of the background noise present in the environment;
- generate alarm messages preceded by a warning signal, for a duration ranging from 4 to 10 seconds;
- in case of use of pre-recorded messages, they must be stored in non-volatile memory and monitored so as to ensure their availability if necessary;
- activate the emergency announcement system within 3 seconds from alarm detection;
- monitor the presence of the emergency pre-recorded messages in the local solid-state audio memory module;
- be able to broadcast different kinds of emergency messages, in case multiple speaker lines shall be served.

A backup power supply must be provided to guarantee full operation of the system in case of black-out of mains power failure, for at least 30 minutes in case of emergency, and for 24 hrs, when in stand-by.

NOTE: the UNI EN 54-16 Standard regards the specifications of the equipment for voice alarm systems when they are part of fire detection.

Operating principle of Leonardo system

LINE DIAGNOSTICS

The Leonardo System has a modular structure and requires a zone module for each speaker line. The zone modules are housed in the Switching Unit. The diagnostic system injects a 22KHz pilot tone in the amplification chain. The presence of the pilot tone is constantly detected at the amplifier output and at the end of the speaker line. The absence of the pilot tone in either or both points determines the following behaviours of the Leonardo system:

1. Absence of the pilot tone at the amplifier output (amplifier failure):
 - switch-on of failure warning light on front panel of the Switching Unit;
 - activation of an acoustic signal in the Central Unit;
 - activation of a failure message on the display of the Central Unit and of the remote microphone units;
 - event storage in the Central Unit log, and print if a printer is connected to the serial port;
 - switching of the speaker line to the backup amplifier, if available.
2. Absence of pilot tone at the end of the speaker line (line failure):
 - switch-on of failure warning light on front panel of the Switching Unit;
 - activation of an acoustic signal in the Central Unit;
 - activation of a failure message on the display of the Central Unit and of the remote microphone units;
 - event storage in the Central Unit log, and print if a printer is connected to the serial port;

BACKUP AMPLIFIERS

One or two backup amplifiers can be connected to the LEONARDO switching unit.

In case of failure, if only one backup amplifier is connected, all the zone modules housed in the Switching Unit will switch their audio inputs and speaker lines on to the backup amplifier. The simultaneous failure of multiple amplifiers is statistically unlikely. However, in such a case, the backup amplifier must be dimensioned suitably to cover the total power requested by all the lines.

Two backup amplifiers can be connected to guarantee a better power distribution, in case of failure of multiple amplifiers. In such a case, the switching unit will divide the zone modules in two groups with 4 modules each.

In case of amplifier failures of zones 1 to 4, the speaker lines will be connected to the first backup amplifier. In case of amplifier failures of zones 5 to 8, the speaker lines will be connected to the second backup amplifier.

It is recommended to provide at least one backup amplifier for each Switching Unit installed.

It must be noted that, although the lines are connected

to the backup amplifier to guarantee the operation of the system, the failure signal will remain and maintenance must be carried out to restore the system to normal operation, in compliance with the provisions of law.

The zone modules that detect a failure of the zone amplifier will switch to the backup amplifier, but will not be available for any kind of configuration until normal operation has been restored.

FEEDBACK CONTROL LOOP

The feedback line is necessary to check the speaker line continuity. For an effective control, the speaker installation must be organised in such a way that there is only one line that reaches all speakers without shunts ("daisy chain" connection). Starting from the zone module the first speaker must be connected, then the second speaker, etc. until the last speaker of the line, from which the pair of wires of the feedback loop must start.

This system detects interruptions or short circuits on the line in compliance with point "j)" of paragraph 5.3 of the EN 60849 standard.

The failure of a line circuit is detected and signalled by the diagnostics system.

In case of line interruption, the speakers that remain connected to the area module will continue to be powered regularly (i.e.: interruption of the line from a specific point onwards). The system does not detect the failure of a single speaker (this condition not being required by the standard) unless this results in a strong line impedance reduction with consequent signal attenuation which could cause the fall of the pilot tone.

NOTES ON EMERGENCY SPEAKER LINES

Usually, not all the speaker lines of an audio system are dedicated to broadcast emergency messages. Given the fact that emergency speaker lines should be designed in such a way to guarantee operation also in critical conditions, which involve additional costs (steel wire pipes, speakers with anti-flame dome and thermal fuse), it is recommended to dedicate a few lines only to broadcast emergency messages, with a sufficient number of speakers to cover the entire space. This would be economically convenient in installations with a high number of lines, saving on backup amplifiers and energy costs, and consequently in the dimension of the uninterruptible power system. Another possibility could be to make a mixed installation, using Leonardo to manage emergency lines only.

CENTRAL UNIT

CSE

cod. 1100-101010



TECHNICAL SPECIFICATIONS

AUX input sensitivity	+9dBu
AUX input impedance	20K Ω
MSG2 input sensitivity	+0dBu
MSG2 input impedance	20K Ω
TEL input sensitivity	+0dBu
TEL input impedance	20K Ω
Remote inputs	4 balanced 2,2K Ω , 2 unbalanced N.C.
Remote control	PC RS232
Max. no. of remote microphone units	
Power supply	230Vac - 50+60Hz
Power consumption	15VA
Dimensions (WxHxD)	483x89x265mm
Colour	black
Weight	3,8Kg

The Central Unit is used to manage and control the components of the system and set the operation parameters. It communicates with the Switching Units and the Microphone Units for exchanging of data and audio signals. The Central Unit is provided with a backlit LCD to display system functions and parameters, 5 functional keys to scroll the menus and set operational parameters, a chip-card reader to protect the access to the configuration parameters, 3 led lights for immediate status display of main functions, RJ12 double socket for connecting the remote microphone units, RJ45 priority input for the emergency microphone unit, 2 RCA audio inputs for external sound sources (Tuner, CD, etc.), 1 RCA audio input for an external message source (commercials, jingles, advertising), 1 built-in pre-recorded message sound card, 1 RS232 serial port for connection to PC or serial printer, 6 inputs for remote alarm activation. The access to the system configuration menu can be protected by means of a chip card (Key-Card) with a univocal code, to avoid modifications by unauthorized persons. In addition to the 6 alarm inputs, another 92 "virtual" alarm inputs are available, which become "physical" when associated to the zone module inputs. "Virtual" inputs can be activated manually from the Central Unit front panel, from the emergency microphone unit or by means of a PC, when connected through the serial port.

The Central Unit is configured by means of a PC and the specific "SWL" software. The PC also works as a powerful additional remote control console and allows for continuous management and storage of events (alarms and fault messages). As an alternative, a serial printer can be used instead of the PC for immediate printing of the event in progress. Through the PC it is possible to define areas (an area is a group of zones), select one out of two background music sources for each zone or area, adjust volume for either music, voice and message, per each zone or area, and configure the alarm inputs in order to associate each input with a specific emergency message and a specific zone or area for broadcasting. Emergency messages are stored by default in a solid state memory, in compliance with the regulations, and cannot be altered by an external user. In case of system crash, or malfunctioning of the central unit, the digital will be by-passed and emergency announcements can be made manually from the emergency microphone unit. Suitable to rack installation: size 2 r.u.

SWITCHING UNIT

C8MSE

cod. 1100-111010



TECHNICAL SPECIFICATIONS

No. of slots	8
Max. no. of units in sequence	10
Connection	2x RJ45 - UTP CAT5e cable
Power supply	230Vac - 50+60Hz
Absorption (with 8 modules)	50VA
Dimensions (LxHxD)	483x133x220mm
Colour	black
Weight (without 8 modules)	5,6Kg

The Switching Unit is managed by the CSE Central Unit and is designed to house the zone modules for distribution of audio signals over 8 zones per each unit. Max. 10 Switching Units can be connected in sequence, for a total of 80 zones. Connections with the Central Unit are made with Cat.5 twisted-pair patch cords. All connections are monitored for integrity. The Switching Unit is provided with eight slots for insertion of zone modules, leds on front panel for immediate status display of each zone module, audio/data bus module for connection with Central Unit, extension connector for additional units, connection module for backup amplifiers, and 230Vac mains power module. Suitable to rack installation with Item KSA. Size: 3 r.u.

ZONE MODULE

MZSE

cod. 1100-121010



TECHNICAL SPECIFICATIONS

Audio signal level at AMP IN output	+0dBu
Amplified power applicable to AMP OUT input	500W
Pilot tone frequency	>20KHz
Internal connection	slot Bus 64 pin
Remote input	2,2K Ω balanced
Contatti RELAY	max 24Vdc 1A
Power supply	12Vdc
Current consumption	300mA
Dimensions (WxHxD)	202x38x104mm
Colour	black
Weight	0,3Kg

MRR

cod. 1100-122010

BACKGROUND NOISE DETECTION UNIT

The background noise detection unit can be used in situations when the presence of large public, with consequent increase of environmental noise, requires the automatic adjustment of music and message volume level. When the environmental noise increases, the system increases the sound level by one step, up to a maximum of three. The unit must be installed in

The zone module has been designed to be housed in the Switching Unit and is provided with specific diagnostic electronics which monitors the operation of the amplification chain and, in case of fault of the amplifier, switches the line on to the backup amplifier. Control is individual on each single amplifier and each single speaker line. Breakdown or short circuits of the speaker line are also detected. Faults detected by the module are immediately sent over to the CSE Central Unit that activates alarm sound and messaging. The zone module includes an additional alarm input and an output relay contact for generic use. On-board micro switches are provided for code configuration, diagnostics on-off over amplifier and speaker line, backup service on-off, relay activation. The zone module provides connections for standard 100V power amplifiers (input and output), 100V speaker line and return loop, 0-NC-NA output relay contacts, one additional alarm input and the background noise detection unit model MRR.

a recessed box or a wall box, at a distance from speakers, to avoid feedback. It connects and is powered by the zone module by means of a twisted-pair Cat. 5 cable. The detection unit includes a built-in electret microphone, and provides connections for an optional external electret microphone and for an optional power supply source.

DESKTOP MICROPHONE UNIT

BMSE

cod. 1100-131010



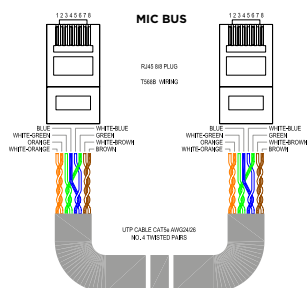
TECHNICAL SPECIFICATIONS

Microphone	gooseneck - electret
Frequency response	50÷16000Hz
Pick-up pattern	cardioid
Sensitivity	-45dB
Impedance	1000Ω
Power supply	12Vdc o 12Vac
Current consumption	100mA
Base dimensions (WxHxD)	206x550x130mm
Microphone stem length	485mm
Colour: black/grey	black/grey
Weight	1,9Kg

The Desktop Microphone Unit is the standard user terminal for broadcasting voice announcements, either on specific zones or areas (Selective Call), or throughout the whole building (General Call). Up to 99 microphone units can be connected to the CSE Central Unit. Since both audio and data are digital, a simple twisted-pair Cat.5 cable connects the microphone units to the CSE.

Just one line is necessary: the microphone units are provided with LINE IN - LINE OUT connectors for a daisy-chain connection. The unit includes a gooseneck electret microphone with "on-air" light, flat keypad for call type selection, backlit LCD to display operations in progress, double RJ12 bus socket for LINE IN-LINE OUT connection, internal micro switch for code configuration and socket for wall power adapter (supplied). Available in aluminium body, ABS sides and built-in feet. Grey/black Colour.

CONNECTION

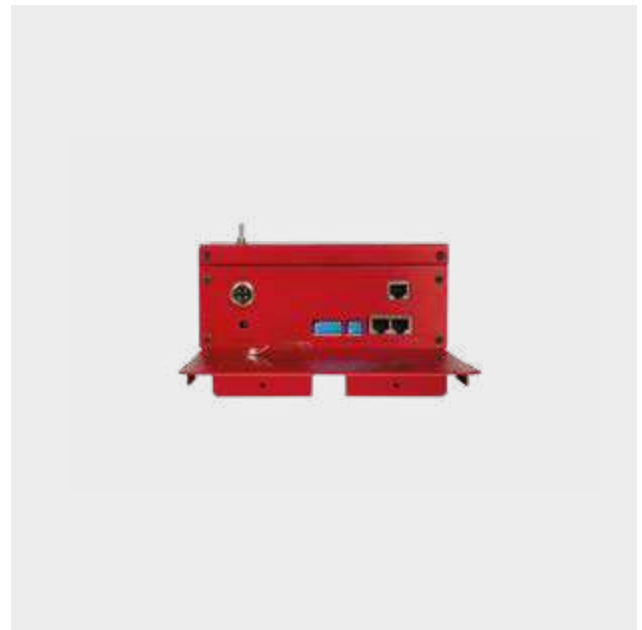


EMERGENCY MICROPHONE UNIT

PMSE

cod. 1100-141010

EN
54-16



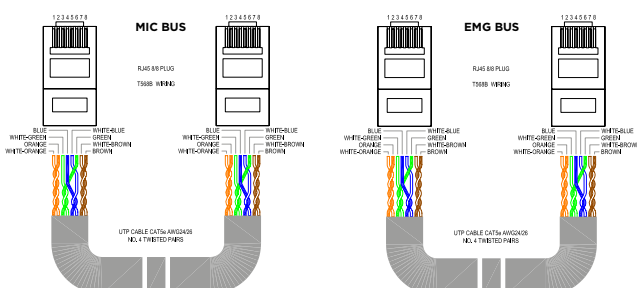
TECHNICAL SPECIFICATIONS

Microphone	hand-held dynamic
Frequency response	200-5000Hz
Pick-up pattern	omnidirectional
Sensitivity	-76dB
Impedance	500Ω
Power supply	12Vdc o 12Vac
Current consumption	100mA
Dimensions (WxHxD)	183x270x108mm
Microphone cable length	400+800mm
Colour	red/grey
Weight	2,2Kg

The Emergency Microphone Unit provides the same functions as the standard microphone unit. In addition, it includes a self-diagnostics electronics which monitors the operation of the microphone and cables and the integrity of the connection to the C8MSE unit, in compliance with the EN60849 Standard. When used in “emergency mode”, all calls generated by the emergency microphone have a priority over all other users. Also, when in “emergency mode”, it is possible to activate any “physical” or “virtual” alarm input from the microphone keypad. In compliance with the EN60849 Standard, the emergency microphone works even in case of malfunction of the ES-CE unit, provided that the power supply is still present.

To make these functions possible the emergency microphone requires an additional connection towards the CSE, by means of a twisted-pair Cat.5 cable. The unit is provided with a dynamic microphone with push-to-talk button and coiled wire, a flat keypad for call type selection, backlit LCD to display operations in progress, internal micro-switch for code setting, socket for connection of an external wall power adapter (supplied), double RJ12 Bus socket for LINE-IN LINE-OUT connection for standard operation, RJ45 socket for priority emergency line and switch with safety lock for selection of operation mode. Only one emergency microphone unit can be connected to the Leonardo CSE Central Unit. Aluminium body with painted back panel, suitable for wall installation in Gewiss-type recessed box item 44819 (supplied separately, item QP44819).

CONNECTION



CONTROL BOARD FOR EMERGENCY MICROPHONE UNIT

QP44819

cod. 1100-142010

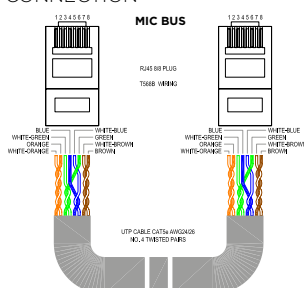


Recessed box for the emergency microphone unit PMSE; grey plastic material; transparent front door with triangle-shaped lock.

TECHNICAL SPECIFICATIONS

Door	transparent
Lock	triangle key
Accessories	frame
IP protection degree	55
Dimensions (WxHxD)	236x316x135mm
Material	GWPLAST120
Colour	grey RAL 7035
Weight: 2,1Kg	2,1Kg

CONNECTION



CONFIGURATIO AND MANAGEMENT SOFTWARE

SWL

cod. 1100-102010

The SWL software package integrates the Leonardo System and it's necessary to carry out the basic system configuration. As an additional feature, it allows for management and constant monitoring of system operation, making the PC a powerful remote console which interacts with the devices wherever they are installed. The software requirements are a PC with Windows XP Professional operating system, and a monitor resolution of 1024*768 pixels minimum. The PC must be provided with RS232 serial port for connection to the Central Unit via a male/female link-type (pin to pin) serial cable. For distances longer than 16 mts a RS232-RS422 converter can be used.

A large number of specific functions are provided to set up the software according to the operator preferences and/or installation requirements. Functions include: language selection, COM serial port selection, connection monitor on-off selection, software/firmware alignment, automatic setting of time and hour, activation of automatic storage of fault/alarm events, activation of warning pop-up messages, management of access privileges for users, and data export into sharable files. The software provides a user-friendly graphic interface with intuitive control panels for each setting.

UNINTERRUPTIBLE POWER SUPPLY

UPS1

cod. 1100-151010



UPS2

cod. 1100-152010



UPS3

cod. 1100-153010

On-line double conversion technology with microprocessor digital control to guarantee maximum performance and high reliability. Provided with backlit display for easy reading, low-noise cooling fan, output contacts for fault warning, RS232 portal for PC connection and for operation parameters management. Produced in a container suitable to rack installation with the specific clamps.

UPS1 is made up of: n.1 central unit 1000VA + n.1 battery unit; size: 4 rack units.

UPS2 is made up of: n.1 central unit 2000VA + n.2 battery units; size: 6 rack units.

UPS3 is made up of: n.1 central unit 3000VA + n.3 battery units; size: 8 rack units.

For an adequate rack support, all UPSs need the article KSA.

TECHNICAL SPECIFICATIONS

MEC. FEA.	WEIG.	ENVIRO.	BATTERY	BY PASS	OUT.	INPUT	Input voltage	230Vac
							Range voltage	170-295Vac
							Input tolerance: 160÷300Vac	160÷300Vac monophase+earth
							Input frequency	40-55Hz a 50Hz / 55-65Hz a 60 Hz (autosensing)
							Input power factor	> 0,98
							Input protection	switch
							Power	1000VA /900W
							Output voltage	208/220/230/240V (rated) +/-2%
							BY PASS	automatic. No interruption (100%) during the passage from UPS and BYPASS and vice versa
							AC to AC efficiency	85%
							DC to DC efficiency	83%
							Crest factor	3:1
							Battery-started	YES
							Output frequency (battery)	50/60 +/-0,2 Hz
							Output frequency from the net	net synchronized
							THD	< 3% (linear load)
							Output sockets number	1+2 IEC 10A
							Typical autonomy: 35 minutes	35 minutes
							Battery type	lead w/o maintenance 12Vdc
							No. of batteries in central unit	no. 3 - 7AH batteries
							No. of batteries in battery pack	no. 3 - 7AH batteries
							Recharging time	6-8 hrs
							Operating temperature	0+40°C
							Humidity at 35°C	up to 90% w/o condensation
							Noise level	<55dBA@1metre
							Central unit	12Kg
							Battery box	23Kg each
							Dimensions of central unit	440 x 520 x 131 / 3U
							Dimensions of battery box	440 x 520 x 131 / 3U x 2pcs

TECHNICAL SPECIFICATIONS

MEC. FEA.	WEIG.	ENVIRO.	BATTERY	BY PASS	OUT.	INPUT	Input voltage	230Vac
							Range voltage	170-295Vac
							Input tolerance: 160÷300Vac	160÷300Vac monophase+earth
							Input frequency	40-55Hz a 50Hz / 55-65Hz a 60 Hz (autosensing)
							Input power factor	> 0,98
							Input protection	interruttore
							Power	2000VA /1800W
							Output voltage	208/220/230/240V (selezionabile) +/-2%
							BY PASS	automatic. No interruption (100%) during the passage from UPS and BYPASS and vice versa
							AC to AC efficiency	85%
							DC to DC efficiency	83%
							Crest factor	3:1
							Battery-started	SI
							Output frequency (battery)	50/60 +/-0,2
							Output frequency from the net	net synchronized
							THD	< 3% (linear load)
							Output sockets number	4+4 IEC 10A
							Typical autonomy: 35 minutes	30 minutes
							Battery type	lead w/o maintenance 12Vdc
							No. of batteries in central unit	no. 6 - 7AH batteries
							No. of batteries in battery pack	no. 6 - 7AH batteries
							Recharging time	6-8 hrs
							Operating temperature	0+40°C
							Humidity at 35°C	up to 90% w/o condensation
							Noise level	<55dBA@1metre
							Central unit	12Kg
							Battery box	23Kg each
							Dimensions of central unit	440 x 520 x 131 / 3U
							Dimensions of battery box	440 x 520 x 131 / 3U x 2pcs

TECHNICAL SPECIFICATIONS

MEC. FEA.	WEIG.	ENVIRO.	BATTERY	BY PASS	OUT.	INPUT	Input voltage	230Vac
							Range voltage	170-295Vac
							Input tolerance: 160÷300Vac	160÷300Vac monophase+earth
							Input frequency	40-55Hz a 50Hz / 55-65Hz a 60 Hz (autosensing)
							Input power factor	> 0,98
							Input protection	interruttore
							Power	3000VA /2700W
							Output voltage	208/220/230/240V (selezionabile) +/-2%
							BY PASS	automatic. No interruption (100%) during the passage from UPS and BYPASS and vice versa
							AC to AC efficiency	85%
							DC to DC efficiency	83%
							Crest factor	3:1
							Battery-started	SI
							Output frequency (battery)	50/60 +/-0,2
							Output frequency from the net	net synchronized
							THD	< 3% (linear load)
							Output sockets number	4+4 IEC 10A +1 IEC 16A
							Typical autonomy: 35 minutes	30 minuti
							Battery type	lead w/o maintenance 12Vdc
							No. of batteries in central unit	no. 6 - 9AH batteries
							No. of batteries in battery pack	no. 6 - 9AH batteries
							Recharging time	6-8 hrs
							Operating temperature	0+40°C
							Humidity at 35°C	up to 90% w/o condensation
							Noise level	<55dBA@1metre
							Central unit	12Kg
							Battery box	23Kg each
							Dimensions of central unit	440 x 520 x 131 / 3U
							Dimensions of battery box	440 x 520 x 131 / 3U x 2pz



Leonardo mini

Stand-alone evac system, EN54 certified.

Evacuation system for wall installation, EN54-16 and EN54-24 certified, suitable for medium-small spaces like supermarkets, schools, sport locations, etc. Complete of batteries, PTT emergency microphone and music source, easy to install and set. Usable also for the management of background music and service announcement. Designed and produced in Italy, for a maximum reliability.

EVAC STAND-ALONE COMPACT SYSTEM

LEONARDOMINI

cod. 1100-107010



TECHNICAL SPECIFICATIONS

Certification	EN 54-16 / EN 54-4
N. of managed zones	2
Emergency microphone	on board
Max n. of additional microphones	1 directly connected to the system; unlimited with IC4/2 interfaces
Pre-registered emergency messages	YES
Amplifiers class	D
Output power (100V)	2x100W RMS
Distortion (THD+N) @ 1KHz at rated output	<0,3%
NC/NO clean contacts:	<ul style="list-style-type: none"> • for alarm warning repetition • for fault warning repetition
Inputs	n°4 monitorati per l'attivazione remota e il silenziamento dei messaggi
TEL input	YES
Music source	YEA Tuner FM, SD Card, USB, Bluetooth. remote control included.
AUX inputs	2
Emergency power supply/battery charger 54-4	YES
Batteries	n.2 12V-7Ah batteries included
Power supply	220Vac
Absorption	180W
Dimensions (WxHxD)	400x532x190mm
Colour:	Grey RAL 7035
Weight	16,8Kg

The compact system Leonardo Mini is a stand-alone audio evacuation system, certified EN54-16 and 54-24. It is intended to manage announcements for a quick and neat mobilization of people who need to evacuate indoor or outdoor areas during an emergency.

The warning messages occur through loudspeakers:

- in external speaker through the incorporated microphone
- from pre-registered messages digital sources

Moreover, Leonardo Mini can also carry out usefulness purposes, such as background music from incorporated music source or call voice messages, through remote microphone. Leonardo Mini is compliant with the specifications of the EVAC systems UNI EN-16 rule. It can control two loudspeaker lines at 100V with a maximum power of 100W each line. It has an inner emergency power supply. It is an apparatus contained in a metallic box of 40cm x 53cm x 19cm (WxHxD), settable on wall.

Inside you find different electronics and devices:

- Main circuit/motherboard: this is the heart of the system because every activity of diagnosis and messages, calls and music signals distribution management are developed by this electronic board.
- Front circuit: this circuit is also important because it consists of all the LED lights and buttons for programming and checking the system, together with the PTT microphone for the emergency calls.
- 24V switching power supply in order to make all the electronic boards work and to charge the 2 batteries which make the system work even without the main power supply.

DESKTOP MICROPHONE UNIT

BM2

cod. 1800-341010



Pre-amplified desktop microphone provided with gooseneck microphone, cardioid electret, and a bright ferrule, indicated for voice announcements, in combination with Leonardo Mini and with the multimedia player MP2120BT. It has got 2 buttons for zone selection and one button for the microphone activation, all with related led light. Body in aluminium, with sides in ABS and stand pins included. All set with wired 5m cable with RJ45 plug connector, for the connection to the mixer/amplifier from which it also receives the 24Vdc power supply. Colour: black/grey.

TECHNICAL SPECIFICATIONS:

Microphone	gooseneck - electret
Frequency response	50 + 16000Hz
Pick-Up Pattern	cardioid
Sensitivity	-45dB
Impedance	1000Ω
Microphone length	490mm
Power supply	24Vdc
Priority contact	YES
Zone selection	2
Cable length	5m
Connection	plug RJ45
Material	aluminium + ABS
Base dimension	106x60x130mm
Colour	black/grey

EMERGENCY DESKTOP MICROPHONE UNIT

BM2E

cod. 1800-341020



Pre-amplified EN54 desktop microphone with gooseneck microphone, dynamic, unidirectional. Indicated for service and emergency voice announcements, combined with the system Leonardo Mini. It has got buttons for service calls, buttons for the remote activation of pre-registered messages reproduction, a button for the emergency call, a key selector to enable emergency functions, a led to indicate the active functions. Body in aluminium, sides in ABS with stand pins included. It has got two screened plug RJ45 connections for the separated connection of the standard and the emergency microphone line. 24Vdc power supply directly from Leonardo Mini system or by optional AC/DC adaptor. All set with two CAT5e 5m patches.

TECHNICAL SPECIFICATIONS:

Microphone	gooseneck - electret
Frequency response	50 + 15000Hz
Pick-Up Pattern	cardioid
Sensitivity	-54dB
Impedance	1000Ω
Microphone length	410mm
Power supply	24Vdc
Priority contact	YES
Zone selection	2
Cable length	2 x 5m
Connection	2 x plug RJ45
Material	aluminium + ABS
Base dimension	206x60x130mm
Colour	black/grey

INTERFACE UNIT

IC4/2

cod. 1800-304110



Interface for the simultaneous connection of 4 desktop microphone units BM2 to Leonardo Mini or to the multimedia player MP2120BT.

Each microphone unit keeps the functions of the direct connection to the mixer, realizing priority calls on the other sound sources and activating, if present, the circuit, in order to generate the bitonal signal Ding-Dong.

The activation of any microphone unit implicates the temporary exclusion of the remaining connected ones.

Possibility to connect more than one interface in cascade, in order to increase the number of units to more than 4 (with the consequent decrease of 3 units each interface).

Made in a metallic container, it has 4 inputs and 1 output on plug RJ45 connectors.

Furnished with 24Vdc external power supply and with 1m connection cable with plug RJ45 connectors.

TECHNICAL SPECIFICATIONS:

Number of inputs	4 - plug RJ45
Number of outputs	1 - plug RJ45
Power supply voltage	24Vdc
Dimensions (WxHxD)	70x91x65mm
Colour	light grey
Weight	0,2Kg



Leonardo maxi

EN54-16 and EN54-4 stand-alone compact system.

EN54-16 and EN54-4 certified evacuation system for wall installation, suitable for big places like shopping malls, schools, sport centres, train stations, etc. Complete with wall fixing bracket and PTT emergency microphone, it is easy to install and set up. Possibility to connect more cascading devices, in order to serve bigger spaces or spaces which are located in different floors. It can be used also for background music and service calls. Designed and produced in Italy, for the best reliability.

EVAC STAND-ALONE COMPACT SYSTEM

LEONARDOMAXI



cod. 1100-200000	200W - 2 Linee
cod. 1100-201000	200W - 2 Linee+bck
cod. 1100-202000	400W - 4 Linee
cod. 1100-203000	400W - 4 Linee+bck
cod. 1100-204000	600W - 6 Linee
cod. 1100-205000	600W - 6 Linee+bck



TECHNICAL SPECIFICATIONS

Certification	EN 54-16 / EN 54-4
Number of lines	(CC20002) 2 (CC4004) 4 (CC6006) 6
Emergency microphone	on board, with priority and monitoring
Pre-registered emergency messages	YES
Amplifiers class	D
Output power (100V):	(CC20002) 200W - (CC4004) 400W - (CC6006) 600W
Distorsion /THD+N) @ 1KHz nominal power	0.1%
BGM aux inputs	2 analogical balanced independent inputs
Monitored logical inputs	6 x EVAC + 1 x muting + 1 x reset
Non-monitored logical inputs	8 general pull-down, programmable active low/high
Relay outputs	1 x EVAC + 1 x fault
Open collector outputs	8, programmable NA/NC
Emergency power supply/EN54-4 charger	YES
Backup amplifiers	YES on the versions: CC2002+ / CC4004+ / CC6006+
Power supply	220V
Power consumption	2.65A
Battery requirements	sealed rechargeable lead battery, for stationary use. 10-55Ah, based on the system power
Dimensions (HxWxD)	80 x 52 x 28 cm
Weight (without battery)	29Kg
Material	Metal / ABS
Colour	grey / red
Max. number of devices in the network	255
Max. total output power of the system in the network	102 kW
Max. distance among the devices	standard/preset: 250m with copper extensors: 750m with fibre extensors: 2500m

Leonardo Maxi solution is based on the wall all-in-one concept, connectable on the network. This digital audio distribution technology allows to make EVAC systems which are quite big, flexible and easy to control.

Leonardo Maxi offers the ease of an autonomous conventional system and the advantages of the global network topology. Every Leonardo Maxi system contains the necessary routing to serve up to 6 single zones, up to a maximum of total RMS 600W. Available also the versions with additional active backup amplifier. With a maximum of 255 power stations, connectable in a single global network, and considering that every system can serve up to 6 zones, one single installation can reach over 1500 loudspeaker lines, which can be cumulated in many paging zones.

In order to guarantee the maximum tranquillity to both the electrician and the final customer, ITC products are approved by third party and certified according to European standards.

This new selection of ITC products – Leonardo Maxi products – means less installation, maintenance and management costs. Designed to satisfy normative requirements, up to the most complex needs of engineers, facilities owners and managers and contractors' electrical systems. The selection is based on the planning culture, tested on the field by experts on fire safety and vocal alerts. Leonardo Maxi system is provided with a wide selection of software modules for



pre- and post-processing, like volume control devices and routing, mixing, commuting and prioritization devices. Processing components – such as equalizers and delay lines limiters – make Leonardo Maxi the perfect product for EVAC applications in any context.

Based on the necessity, it is possible to get the Leonardo Maxi in 6 different configurations. The system is provided with a special bracket for the batteries, which can contain from a minimum of 12V/10Ah to a maximum of 12V/55Ah. The included charger is certified to charge up to 12V/55Ah in 24hrs.

Available also a Leonardo Maxi Manager software, a management software which provides a complete and specific interface for the network system application. The software provides an easily accessible vision of the general system status and it eases the operating, thanks to an intuitive and safe configuration tool, which makes the setting and assistance easy.

It is the ideal completion of Leonardo Maxi management system in complex buildings.

- The configuration software supports all the components of the integrated system;
- Firmware updates on the field;
- Flashcard exchange protocol for a fast system update/setting with no direct computer.



END OF LINE CARD

FLLM

cod. 1100-200010



Device for the installation at the end of the loudspeakers line. Necessary in order to allow the Leonardo Maxi power station to verify, check and detect loudspeakers line faults or disruptions. 10pcs pack.

STANDARD MICROPHONE UNIT

BMSLM

cod. 1100-200012



Desktop/wall microphone unit for zone calls. Provided with flexible gooseneck microphone. It has 6 programmable buttons for zone selection + an additional button for calling. The microphone unit connects with a CAT5e or higher cable, for a maximum length of 250m. It is a standard microphone base, so it does not have function tied to EVAC/emergency.

TOUCHSCREEN MICROPHONE UNIT

BMTLM

cod. 1100-200013



Desktop/wall microphone unit with touchscreen panel. It can serve up to 255 zones and enable any available source or message for general aims. Provided with gooseneck microphone for general paging. The unit offers general paging functions: general messages, BGM, non-emergency events (so, no emergency functions). The unit is connected to the L-Net microphone interface of the system main unit and can be star-connected to the other L-Net devices. The microphone unit connects with a CAT5e or higher cable, for a maximum length of 250m.

TECHNICAL SPECIFICATIONS

Number of zones	6
Commands and signs	6 configurable zone buttons. "Zone selection" and "occupied" led lights
Microphone	gooseneck. Length: 31,5cm
Consumption (24V)	max. 50mA
Frequency response	100Hz - 12KHz
Connection	RJ-45
Max. length	250m
Dimensions	6x13x21cm
Material	metal/ABS
Mounting	desktop or wall (wall brackets included)

TECHNICAL SPECIFICATIONS

Number of zones	max. 255 zone (global network)
Commands and signs	touchscreen display, configurable for zone calls, zone groups selection, music sources management, events activation/control, errors/fault warning
Microphone	gooseneck. Length: 31,5cm
Consumption (24V)	max. 180mA
Frequency response	100Hz - 12KHz
Connection	RJ-45
Power supply	through RJ-45
Max. length	250m
Dimensions	6x13x21cm
Material	metal/ABS
Mounting	desktop or wall (wall brackets included)

EMERGENCY MICROPHONE WITH WALL BOC

PMELM

cod. 1100-200014



Wall mounting paging microphone, with control panel and fireman microphone. It can serve up to 6 zones for EVAC emergency paging. The product includes a hand-microphone with PTT button, which can be pre-set to access specific zones or group zones. EVAC and NOTICE messages can be enabled on the front panel through specific buttons. Moreover, it incorporates the mandatory EN 54-16 indications, as well as an emergency/fault buzzer and manual mandatory controls. This microphone is connected to the L-Net interface of the main Leonardo Maxi unit and can be star-connected to other devices. This product is for EVAC/NOTICE messages and for EVAC alive paging, not for general or commercial paging. It has a complete monitoring of the microphone faults.

TECHNICAL SPECIFICATIONS

Number of zones	6
Commands and signs	warning light test button, muting button, led lights for: power, alarm and fault.
Microphone	PTT with priority and on board monitoring
Consumption (24V)	max. 180mA
Frequency response	100Hz - 12KHz
Connection	RJ-45
Power supply	through RJ-45
Max. length	250m
Dimensions	38,5x44x13,5cm
Material	metal/ABS
Mounting	wall

TOUCHSCREEN MICROPHONE UNIT + PTT MICROPHONE

BMTELM

cod. 1100-200015



Wall/desktop emergency microphone with touchscreen panel. It can serve up to 255 zones and enable emergency messages or priority vocal alarm of the fireman microphone, in any of the system zones. The microphone unit is designed as emergency panel with a completely monitored portable microphone. This microphone offers only the function in emergency mode. When the transparent window is closed, the panel is blocked (access level 1) and no paging functions are available. As soon as the transparent window is open, the system automatically moves to emergency mode. It includes one EVAC message, two NOTICE messages, muting/reset functions and a PTT fireman microphone for direct evacuation transmission. This microphone is connected to the L-Net interface of the main Leonardo Maxi unit and can be star-connected to other L-Net devices. It can monitor faults and priority EVAC function, being adequate as an emergency microphone with complete access to every zone of the system. The microphone unit connects with a CAT5e or higher cable, for a maximum length of 250m.

TECHNICAL SPECIFICATIONS

Number of zones	max. 255 zone (global network)
Commands and signs	touchscreen display, configurable for zone calls, zone groups selection, music sources management, events activation/control, errors/fault warning
Microphone	PTT
Consumption (24V)	max. 180mA
Frequency response	100Hz - 12KHz
Connection	RJ-45
Power supply	through RJ-45
Max. length	250m
Dimensions	6x26x21cm
Material	metal/ABS
Mounting	desktop or wall (wall brackets included)

TOUCHSCREEN MICROPHONE UNIT + PTT MICROPHONE + GOOSENECK

BMTEGLM

cod. 1100-200016



Wall/desktop emergency microphone with touchscreen panel. It can serve up to 255 zones and enable emergency messages or priority vocal alarm of the fireman microphone, in any of the system zones. The microphone unit is designed as emergency panel with a completely monitored portable microphone. Moreover, it is equipped with a gooseneck microphone for service calls. This microphone offers a double-functioning mode: a paging modality (transparent window closed), in which only paging calls and general messages are available, and an emergency call (transparent window open), in which emergency messages and fireman microphone are available. It includes one EVAC message, two NOTICE messages, muting/reset functions and a PTT fireman microphone for direct evacuation transmission. This microphone is connected to the L-Net interface of the main Leonardo Maxi unit and can be star-connected to other L-Net devices. It can monitor faults and priority EVAC function, being adequate as an emergency microphone with complete access to every zone of the system. The microphone unit connects with a CAT5e or higher cable, for a maximum length of 250m.

TECHNICAL SPECIFICATIONS

Number of zones	max. 255 zone (global network)
Commands and signs	touchscreen display, configurable for zone calls, zone groups selection, music sources management, events activation/control, errors/fault warning
Microphone	PTT for emergency + gooseneck for service calls.
Consumption (24V)	Length: 31,5cm max. 180mA
Frequency response	100Hz - 12KHz
Connection	RJ-45
Power supply	through RJ-45
Max. length	250m
Dimensions	6x26x21cm
Material	metal/ABS
Mounting	desktop or wall (wall brackets included)

LINE ADDITIONAL POWER SUPPLY

ASLLM

cod. 1100-200021



This device is L-Net power supply injector which provides an injection of additional power, directly on the bus line. NOTE: power supply not included.

Thanks to L-Net power supply injector, more than one L-Net device, with high power, can be installed in the same cable; devices can be installed way further from the Leonardo Maxi and far from each other. Connection with RJ45 plug and CAT5e cable. Every bus power offers 30V CC during the network functioning, with a maximum output of 500Ma, powering all devices along the bus. NOTE: it is possible to connect a maximum of 8 devices in one bus channel. This device is extremely useful when current consumption of the devices connected to the same bus is higher than 500Ma. Power voltage in the bus cable could go below 20V CC, because of an excessive cable resistance, caused by:

- small diameter of the string in the L-Net CAT5e cable;
- big distance from the main system;
- both.

TECHNICAL SPECIFICATIONS

Power supply	24 - 30 VDC. Max. 1000mA
Number of connectable devices	8 each bus
Dimensions	22x40x60mm
Material	ABS
Mounting	in the line

DIN RAIL LINE BOOSTER

BLLM

cod. 1100-200022



This booster product is the heart of the Loopdrive system. It can manage up to 20 devices (IALM/SGLM/MSLM/MRVKM types) on a dual-core cable. A single booster can let pass 800W audio signal from an amplifier, and in the meantime, it can inject DC to the loop, in order to power and manage the connected modules. One amplifier channel be split in more than one booster, creating multiple loops with individual monitoring for multi-zone applications.

The case is designed for DIN rail mounting, front indicators and buttons allow a fast access to the main system functions. This product is and works only for loop lines.

TECHNICAL SPECIFICATIONS

Commands and signs	3 status led lights, 2 service and pre-reset buttons and fault contact. Communication on RS-485.
AMP input (100V audio)	AC voltage max.100VRMS, 300VPP. AC current max. 8A.
Frequency range	40Hz - 20kHz (-3dB)
LOOP output	AC. like AMP output. DC voltage: 30V. DC current: max.130Ma
Loop relay contact	max. 250VAC/8A
Loop total load	800W
Consumption (24V)	max. 100mA
Detections	short circuit, opening, ground dispersion
Wiring	2 wires 0,8 - 2,5mm. max length: 1km
Connection	RJ-45
Power supply	24VDC
Max. length	250m
Dimensions	17,5x114,5x99mm
Material	ABS
Mounting	DIN rail

LOUDSPEAKER INSULATOR

IALM

cod. 1100-200023



This is a module which can be used in loop lines, to isolate a portion of line (and related speakers), if a short circuit happens. With this product, in the loop line systems, it is possible to avoid the blockage of the entire line if there is a short circuit. It works combined with the BLLM booster, which is the controller. This product is and works only for loop lines.

TECHNICAL SPECIFICATIONS

Dimensions	140x120x50mm
Material	ABS
Mounting	on cable

JUNCTION BOX

SGLM

cod. 1100-200024



It is a junction box, necessary when a speaker does not contain a condenser, to block the DC coming from the BLLM booster. This product is and works only for loop lines.

TECHNICAL SPECIFICATIONS

Dimensions	140x120x50mm
Material	ABS
Mounting	on cable

RELAY MODULE

MSLM

cod. 1100-200025



It is a device, provided with a relay, to install along the loudspeaker line, in order to activate a clean contact in case of an emergency. It can be very useful to mute the other audio systems during an emergency. This product is and works only for loop lines.

TECHNICAL SPECIFICATIONS

Dimensions	140x120x50mm
Material	ABS
Mounting	su cavo

VOLUME CONTROL MODULE

MRVLM

cod. 1100-200026



It is a module for local volume control (max. 50W), to be associated with a volume regulator. It is provided also with an input for a signal coming from a local source (for example: shops inside malls, in which there is an EVAC system in common). In emergency conditions, the volume control and the local source are bypassed and the emergency message is broadcasted, interrupting the background music. Moreover, like IALM, it can isolate the line part where there could be a short circuit. This product is and works only for loop lines.

TECHNICAL SPECIFICATIONS

Dimensions	140x120x50mm
Material	ABS
Mounting	su cavo

OPTICAL FIBRE INTERFACE

IFOLM

cod. 1100-200027



Multi-mode optical fibre signal adaptor, DIN rail mounting and dedicated to Leonardo Maxi evacuation systems. It is necessary when you have the necessity to connect more than one Leonardo Maxi power stations far away from each other (more than 250m). It can extend the single connection ray up to 2km. The adaptor is powered from the G-Net port of the power station and it is provided with a standard SC connector for the fibre cable, allowing a simple connection.

TECHNICAL SPECIFICATIONS

Dimensions	90x36x62mm
Material	ABS
Mounting	barra DIN

6 LINES EXTENSION MODULE

ME6LM

cod. 1100-200028



It is an 100V audio-matrix, mounted on DIN rail, with 2 inputs and 6 outputs. It has got two 100V audio inputs (CHA, CHB) which directly connect to the amplifier outputs. This device extends the loudspeaker lines up to 6. Every loudspeaker line can manage up to 200W and can be a single separated zone. An input can accept a maximum of 500W, which is also the load limit for all 6 output lines together.

TECHNICAL SPECIFICATIONS

Dimensions	90x118x65mm
Material	ABS
Mounting	barra DIN

PC CONNECTION ADAPTER

ACOLLPC

cod. 1100-200020



Adapter cable for connecting the PC to the Leonardo Maxi system. It has got USB port and RJ45 for connection. 3m USB cable and 1m CAT5e cable included.

PTT EMERGENCY DESKTOP MICROPHONE

MET

cod. 1100-200017



PTT emergency microphone for Leonardo Maxi. It is the same microphone on board of Leonardo Maxi power station, but in a plastic container with transparent window. Wall or desktop installation. Equipped with warning led lights, as requested by the law.

TECHNICAL SPECIFICATIONS

Dimensions	80x130x210mm
Material	Metallo/ABS
Mounting	da tavolo/da parete

EN 54 10W CEILING MOUNT SPEAKER

DC230 / T10EN

cod. 1900-230061

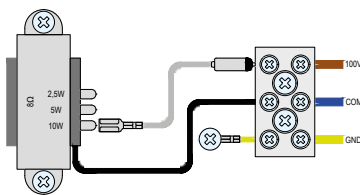


EN54-24 certified 10W ceiling speaker, suitable for quality reproduction of announcements and background music. Painted metal body and grille, with spring clips for quick and easy ceiling mounting on flame-resistant caps. Complete with line transformer with selectable power for better sound level regulation. Dual ceramic terminal block for 100V signal input and output and thermal fuse for exclusion from mains line in the event of temperatures above 150°C. Particularly suitable for emergency announcements.

TECHNICAL SPECIFICATIONS

Type	recessed in false ceiling
Operating voltage	100V
RMS power	10W
Intermediate power	10/5/2.5W
Transformer impedance	1/2/4KΩ
Frequency response	170 ÷ 20000Hz
Dispersion angle	140° (1Khz) / 120° (4Khz)
S.P.L. 1W@1m	93 ±3dB
Speaker type	6.5" full range
Speaker impedance	8Ω
Dimensions	ø230mm x 129mm
Hole dimensions	ø205mm
Material	steel
Colour	white
Weight	1,75Kg

CONNECTION



EN 54 6W CEILING MOUNT SPEAKER

DC185 / T6EN

cod. 1900-185061

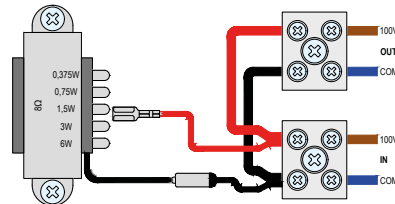


EN54-24 certified 6W ceiling speaker, suitable for quality reproduction of announcements and background music. Painted metal body and grille, with spring clips for quick and easy ceiling mounting on flame-resistant caps. Complete with line transformer with selectable power for better sound level regulation. Dual ceramic terminal block for 100V signal input and output and thermal fuse for exclusion from mains line in the event of temperatures above 150°C. Particularly suitable for emergency announcements.

TECHNICAL SPECIFICATIONS

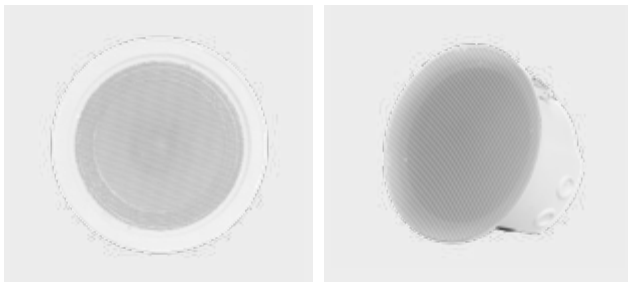
Type	recessed in false ceiling
Operating voltage	100V
RMS power	6W
Intermediate power	6/3/1.5/0.75/0.38W
Transformer impedance	1,24/1,84/3,34/6,79/13,3KΩ
Frequency response	130 ÷ 18000Hz
Dispersion angle	180° (1Khz) / 150° (2Khz) / 70° (4Khz)
S.P.L. 1W@1m	86,5 ±3dB
Speaker type	5" full range
Speaker impedance	8Ω
Dimensions	ø180mm x 147mm
Hole dimensions	ø160mm
Material	steel
Colour	white
Weight	1,2Kg

CONNECTION



RIMLESS EN 54 10W CEILING MOUNT SPEAKER

DCSB20 / T10EN
cod. 1900-230062

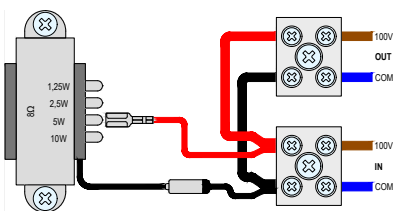


EN54-24 certified 10W ceiling speaker, suitable for quality reproduction of announcements and background music. Rimless version, painted metal body and grille, with spring clips for quick and easy ceiling mounting on flame-resistant caps. Complete with line transformer with selectable power for better sound level regulation. Dual ceramic terminal block for 100V signal input and output and thermal fuse for exclusion from mains line in the event of temperatures above 150°C. Particularly suitable for emergency announcements.

TECHNICAL SPECIFICATIONS

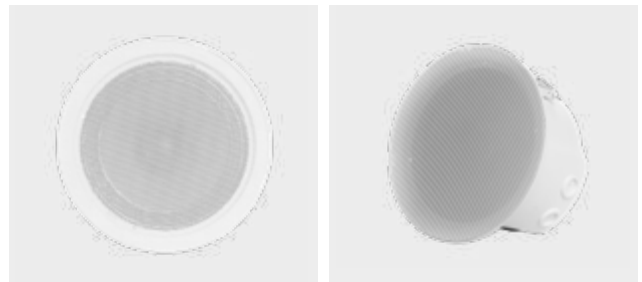
Type	recessed in false ceiling
Operating voltage	100V
RMS power	10W
Intermediate power	10/5/2,5/1,25W
Transformer impedance	1K Ω / 2K Ω / 4K Ω / 8K Ω
Frequency response	90 - 20000Hz
Dispersion angle	180° (1Khz) / 70° (4KHz)
S.P.L. 1W@1m	89dB
Speaker type	6" x 1 (2-way)
Speaker impedance	8 Ω
Dimensions	\varnothing 200mm x 86mm
Hole dimensions	\varnothing 175mm
Material	steel
Colour	white
Weight	1,1Kg

CONNECTION



RIMLESS EN 54 6W CEILING MOUNT SPEAKER

DCSB20 / T6EN
cod. 1900-185064

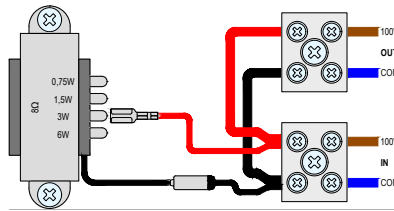


EN54-24 certified 6W ceiling speaker, suitable for quality reproduction of announcements and background music. Rimless version, painted metal body and grille, with spring clips for quick and easy ceiling mounting on flame-resistant caps. Complete with line transformer with selectable power for better sound level regulation. Dual ceramic terminal block for 100V signal input and output and thermal fuse for exclusion from mains line in the event of temperatures above 150°C. Particularly suitable for emergency announcements.

TECHNICAL SPECIFICATIONS

Type	recessed in false ceiling
Operating voltage	100V
RMS power	6W
Intermediate power	6/3/1,5/0,75W
Transformer impedance	1,7K Ω / 3,3K Ω / 6,7K Ω / 13K Ω
Frequency response	100 - 18000Hz
Dispersion angle	180° (1Khz) / 70° (4KHz)
S.P.L. 1W@1m	91dB
Speaker type	6" x 1 full range
Speaker impedance	8 Ω
Dimensions	\varnothing 200mm x 86mm
Hole dimensions	\varnothing 175mm
Material	steel
Colour	white
Weight	1 Kg

CONNECTION



EN 54 6W CEILING MOUNT SPEAKER

DC20 / T6EN

cod. 1900-185063

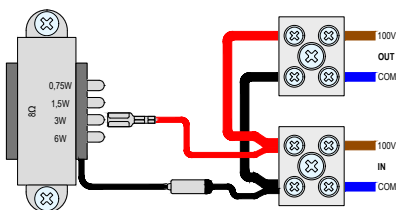


EN54-24 certified 6W ceiling speaker, suitable for quality reproduction of announcements and background music. Painted metal body and grille, with spring clips for quick and easy ceiling mounting on flame-resistant caps. Complete with line transformer with selectable power for better sound level regulation. Dual ceramic terminal block for 100V signal input and output and thermal fuse for exclusion from mains line in the event of temperatures above 150°C. Particularly suitable for emergency announcements.

TECHNICAL SPECIFICATIONS

Type	recessed in false ceiling
Operating voltage	100V
RMS power	6W
Intermediate power	6/3/1,5/0,75W
Transformer impedance	1,7K Ω / 3,3K Ω / 6,7K Ω / 13K Ω
Frequency response	100 - 18000Hz
Dispersion angle	180° (1KHz) / 70° (4KHz)
S.P.L. 1W@1m	91dB
Speaker type	6" x 1" full range
Speaker impedance	8 Ω
Dimensions	ø200mm x 90mm
Hole dimensions	ø175mm
Material	steel
Colour	white
Weight	1,1Kg

CONNECTION



EN54 6W WALL SPEAKER

DP2520 / T6EN

cod. 1900-252061

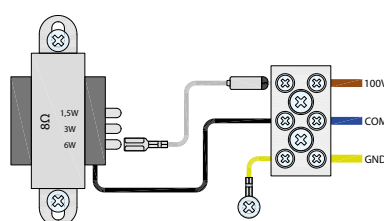


EN54-24 certified 6W protruding wall speaker, suitable for quality reproduction of announcements and background music. Painted wood body and metal grille. Complete with line transformer with selectable power for better sound level regulation. Dual ceramic terminal block for 100V signal input and output and thermal fuse for exclusion from mains line in the event of temperatures above 150°C. Particularly suitable for emergency announcements.

TECHNICAL SPECIFICATIONS

Type	protruding wall speaker
Operating voltage	100V
RMS power	6W
Intermediate power	6/3/1,5W
Transformer impedance	1,7/3,3/6,7K Ω
Frequency response	150 - 20000Hz
Dispersion angle	180° (1KHz) / 70° (4KHz)
S.P.L. 1W@1m	92 +3dB
Speaker type	6,5" full range
Speaker impedance	8 Ω
Dimensions	254,5mm(H) x 204,5 (W) x 87,5 mm (D)
Material	wood/steel
Colour	white
Weight	1,6Kg

CONNECTION



EN54 20W HORN SPEAKER

DT165 / T20EN

cod. 1900-165203

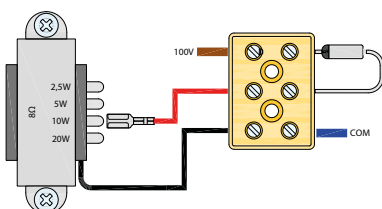


EN54-24 certified 20W horn wall speaker, suitable for quality reproduction of announcements in those places where a high acoustic performance is required. ABS body with round bell, equipped with a "U" adjustable bracket, for an easy mounting, both indoor and outdoor. Complete with line transformer with selectable power for better sound level regulation. Dual cable gland and dual ceramic terminal block for 100V signal input and output and thermal fuse for exclusion from mains line in the event of temperatures above 150°C. Particularly suitable for emergency announcements.

TECHNICAL SPECIFICATIONS

Type	wall speaker
Operating voltage	100V
RMS power	20W
Intermediate power	20/10/5/2,5W
Transformer impedance	0,5/1/2/4KΩ
Frequency response	350 + 9000Hz
S.P.L. 1W@1m	106 +3dB
Speaker	magnetic-dynamic device
Speaker impedance	8Ω
IP protection grade	66
Dimensions	ø165mm x 238mm
Fixing	U bracket
Material	ABS
Colour	grey
Weight	1,9Kg

CONNECTION



EN54 20W BIDIRECTIONAL PROJECTOR SPEAKER

SPJ-52WHBS

cod. 8105-131030

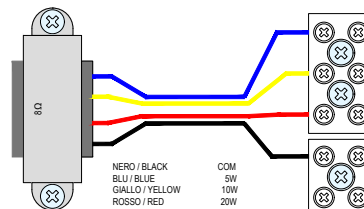


EN54-24 certified 20W bidirectional projector wall speaker, suitable for quality reproduction of announcements in those places where a high efficiency in a direction is required. It reduces the echoes from back and side walls, floors and ceilings. Aluminium body with painted metal grill, equipped with a wall bracket, for an easy mounting, both indoor and outdoor. Complete with line transformer with selectable power for better sound level regulation. Dual ceramic terminal block for 100V signal input and output and thermal fuse for exclusion from mains line in the event of temperatures above 110°C. Particularly suitable for emergency announcements.

TECHNICAL SPECIFICATIONS

Type	wall speaker
Operating voltage	100V
RMS power	20W
Intermediate power	20/10/5W
Transformer impedance	0,5/1/2/4KΩ
Frequency response	120 + 20000Hz
S.P.L. 1W@1m	89 +3dB
Speaker	5" full range
Speaker impedance	8Ω
IP protection grade	56
Dimensions	ø146mm x 186mm
Fixing	wall bracket
Material	aluminium
Colour	white
Weight	3,3Kg

CONNECTION



EN54 20W PROJECTOR SPEAKER

PSS / T20EN
cod. 1900-146201

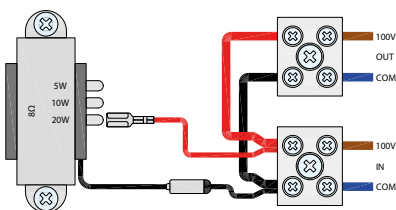


EN54-24 certified 20W projector wall speaker, suitable for quality reproduction of announcements in those places where a high efficiency in a direction is required. It reduces the echoes from back and side walls, floors and ceilings. Aluminium bod, equipped with a "U" adjustable bracket, for an easy mounting, both indoor and outdoor. Complete with line transformer with selectable power for better sound level regulation. Dual cable gland and dual ceramic terminal block for 100V signal input and output and thermal fuse for exclusion from mains line in the event of temperatures above 150°C. Particularly suitable for emergency announcements.

TECHNICAL SPECIFICATIONS

Type	wall speaker
Operating voltage	100V
RMS power	20W
Intermediate power	20/10/5W
Transformer impedance	0,5/1/2/4KΩ
Frequency response	130 + 20000Hz
Dispersion angle	230° (1Khz) / 60° (4Khz)
S.P.L. 1W@1m	91 +3dB
Speaker	5" full range
Speaker impedance	8Ω
IP protection grade	66
Dimensions	ø146mm x 207mm
Fixing	U bracket
Material	steel
Colour	white
Weight	2,5Kg

CONNECTION



EN54 15W PROJECTOR SPEAKER

PSS / T15EN
cod. 1900-198151

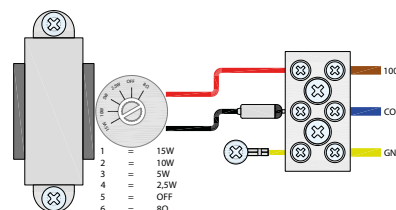


EN54-24 certified 15W projector wall speaker, suitable for quality reproduction of announcements in those places where a high efficiency in a direction is required. It reduces the echoes from back and side walls, floors and ceilings. Self-extinguishing ABS body equipped with a "U" adjustable bracket, for an easy mounting, both indoor and outdoor. Complete with line transformer with selectable power for better sound level regulation. Ceramic terminal block for 100V signal input and output and thermal fuse for exclusion from mains line in the event of temperatures above 150°C. Particularly suitable for emergency announcements.

TECHNICAL SPECIFICATIONS

Type	wall/ceiling speaker
Operating voltage	100V
RMS power	15W
Intermediate power	15/10/5/2,5W
Transformer impedance	0,67/1/2/4KΩ
Frequency response	120 + 20000Hz
Dispersion angle	150° (1Khz) / 30° (4Khz)
S.P.L. 1W@1m	92 +3dB
Speaker	6,5" full range
Speaker impedance	8Ω
IP protection grade	65
Dimensions	ø198mm x 250mm
Fixing	U bracket
Material	ABS
Colour	white
Weight	2,35Kg

CONNECTION





Amplifiers and preamps

**Preamplifiers,
integrated amplifiers,
power units
and accessories.**

A series of constant voltage devices for professional public address systems, where service calls or music are needed in places like shops, restaurants, gyms, bars places of worship, etc. Moreover, accessories for supplementary features.

PREAMPLIFIERS MIXER

PRE5

cod. 1300-405010



TECHNICAL SPECIFICATIONS

AUX input sensitivity	-34 + +14dBu; 15mV + 3,8V
MICRO input sensitivity	-50 + -2dBu; 2,5 + 500mV
Balanced input impedance	10K Ω
Phantom power supply	24Vdc
Bass control	\pm 12dB a 60Hz
Treble control	\pm 12dB a 10KHz
TAPE/REC output level	-4dBu; 300mV
PRE output level	+2,5dBu; 1V
SEND and RETURN level	+0dBu; 775mV
PRE OUT noise channels 1+4	-60dBu
PRE OUT noise AUX level	-75dBu
Response in frequency (-3 dB)	80 + 15KHz
Rating power distortion 1KHz	<1%
Signal/noise ratio micro	>60dB
Signal/noise micro AUX	>80dB
Power supply from AC mains	230Vac - 50+60Hz
Power consumption	15VA
Dimensions (WxHxD)	443x88x310mm
Colour	black
Weight	9,0Kg

Mixer- Preamplifier with 4 electronically balanced MIC inputs with XLR 3-pole connectors with switchable phantom voltage and micro-switch ON/OFF control, 1 AUX input on RCA connections for stereo sources at line level available. Priority call function available at Input 1 through a 5-pin DIN connector for microphone units with TALK pushbutton. Provided with: one REC output for recorder, one SEND output and one RETURN input for external sound processing devices (feed-back suppressor, equalizer, sound processor), one PRE OUT output. Provided also with separate tones and volume for each channel, general volume control, master volume and LED VU-meter and one g round on-off switch for "ground loop" noise suppression. Power outputs for constant impedance and constant voltage lines. Suitable to rack installation with item KMR2 Size: 2 r.u.

120W CLASS D MIXER AMPLIFIER WITH MUSIC SOURCE

A120MD

cod. 1300-112040



240W CLASS D MIXER AMPLIFIER WITH MUSIC SOURCE

A240MD

cod. 1300-124020



TECHNICAL SPECIFICATIONS

RMS power	120W(A120MD) - 240W(A240MD)
Frequency response	80Hz-16KHz (+1dB, -3dB)
THD	≤ 0.05% (at 1KHz, 1/3 rated power)
Constant imp. speakers outputs	4 Ω, 16 Ω
Constant volt. speakers outputs	100 V
Protections	overheating, overload, short circuit
Signal LED	signal, peak, protection, power
Disturb/signal	(MIC 1,2,3) ≥ 66dB - (AUX1,2) ≥ 85dB
AUX input sensitivity	350mV±20mV/10KΩ
MICRO input sensitivity	5mV±1mV/600Ω
Phantom power supply	24Vdc
Power supply from AC mains	230Vac - 50-60Hz
Consumption	160VA(A120MD) - 300VA(A240MD)
Dimensions (WxHxD)	484x300x44mm
Colour	black
Weight	4,7Kg(A120MD) - 5,2Kg(A240MD)

120W - 240W mixer-amplifier with 4 electronically balanced MIC inputs on screw clamps with micro-switch phantom voltage, 2 AUX inputs on RCA connections for medium and high stereo sources lines. There is a muting clamp and an EMC clamp for maximum priority on the other inputs. For the use of BM1 microphone unit, add the article CDINRJ45 (code 1800-303010). Electronic Ding-Dong incorporated. Unbalanced stereo output on RCA connectors. It is also provided with separated volume controls for each channel, general tone control, master volume and LED signal indicators for: active signal, peak, protection and power supply. It has got FM/AM radio, USB reader, SD card reader and Bluetooth receiver. Power outputs for constant impedance and constant voltage lines. Standard support for rack installation included. Size: 1 r.u.

120W + 120W MIXER AMPLIFIER/MULTIMEDIA PLAYER

MP2120 BT

cod. 1300-212020



Desktop microphone unit product BM2

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TECHNICAL SPECIFICATIONS

AUX input sensitivity	-34 + +14dBu; 15mV + 3,8V
MICRO input sensitivity	-50 + -2dBu; 2,5 + 500mV
Balanced input impedance	10KΩ
Phantom power supply	24Vdc
Bass control	±12dB a 60Hz
Treble control	±12dB a 10KHz
SEND and RETURN levels	+0dBu; 775mV
PRE OUT noise, channels 1-4	-60dBu
PRE OUT noise, AUX level	-73dBu
Response in frequency (-3 dB)	80 + 15KHz
Rating power distortion 1KHz	<1%
MICRO signal/noise ratio	>60dB
AUX signal/noise ratio	>80dB
Multimedia player	AM/FM digital tuner, auto tune, Bluetooth, MP3, USB, SD, MMC
Rating power RMS	2X120W
I.H.F. power	2X180W
Speaker outputs, constant imp.	4Ω
Speaker outputs, constant volt.	70V, 100V
Power supply from AC mains	230Vac - 50+60Hz
Power consumption	450VA
Dimensions (WxHxD)	443x88x380mm
Colour: black	black
Weight: 12,0Kg	12,00Kg

Music and announcements for bars, restaurants, gyms, beauty salons, shops, supermarkets, offices. Amplified 120W+120W dual channel receiver with two electronically balanced MIC inputs on 3-pin XLR connectors with sensitivity control and phantom power and micro-switch ON/OFF control, an AUX input on RCA connectors for medium and high-level stereo line sources, a TEL input with adjustable sensitivity control and vox control, an electronically balanced MC/LINE input on RJ45 jack connector for microphone base for selective priority calls and activation of integrated electronic ding-dong signal.

It features two PRE-OUTPUTS. And it also features separate volume controls for each input channel, general tone controls and master volume for each output. Digital FM/AM tuner, CD/MP3 player with USB, integrated SD/MMC card slots and Bluetooth receiver.

Supplied with IR remote control. Electronically-controlled forced ventilation cooling. Dual power output for constant impedance and constant voltage lines. It needs KMR2 for rack assembly and also KSA for proper support. Size: 2 r.u.

120W POWER AMPLIFIER 120 W

UP120D

cod. 1400-112030



TECHNICAL SPECIFICATIONS

Input sensitivity	±385mV, balanced input
Balanced inputs impedance	20K Ω
Frequency response (-3dB)	80 + 16KHz (+1, -3dB)
THD	≤0,1% a 1KHz, 1/3 of rated power
Overload source	>10dB
Signal/noise ratio	≥85dB
Rating power RMS	120W
Power I.H.F.	180W
Speaker outputs, constant imp.	4-16 Ω
Speaker outputs, constant volt.	100V
Protections	overheating, overload, short circuit
Signal Led	signal, peak protection, power
Power supply from AC mains	230Vac - 50Hz
Power consumption	160VA
Dimensions (WxHxD)	484x300x44mm
Colour	black
Weight	3,6Kg

Monophonic class D power amplifier, 120W. It features: one balanced input and one output for loudspeakers line, on extractable clamps. Through slip switch it is possible to select the output type (100V or 4-16Ohm). Additional output clamp for contact "amplifier fault". On the frontal part there are some led lights for signal: signal, peak, protection, power. Electronically-controlled forced ventilation cooling. Practical frontal control knob for volume level adjustment. Mains voltage power supply 230Vac - 50÷60Hz. Metallic case already set for rack installation. Size: 1 r.u.

POWER AMPLIFIER 240 W

UP240D

cod. 1400-124020



TECHNICAL SPECIFICATIONS

Input sensitivity	±385mV, balanced input
Balanced inputs impedance	20KΩ
Frequency response (-3dB):	80 ÷ 16KHz (+1, -3dB)
THD	≤0,1% a 1KHz, 1/3 of rated power
Overload source	>10dB
Signal/noise ratio	≥85dB
Rating power RMS	240W
Power I.H.F.	360W
Speaker outputs, constant imp.	4-16 Ω
Speaker outputs, constant volt.	100V
Protections	overheating, overload, short circuit
Signal Led	signal, peak protection, power
Power supply from AC mains	230Vac - 50Hz
Power consumption	300VA
Dimensions (WxHxD)	484x300x44mm
Colour	black
Weight	3,7Kg

Monophonic class D power amplifier, 240W. It features: one balanced input and one output for loudspeakers line, on extractable clamps. Through slip switch it is possible to select the output type (100V or 4-16Ohm). Additional output clamp for contact "amplifier fault". On the frontal part there are some led lights for signal: signal, peak, protection, power. Electronically-controlled forced ventilation cooling. Practical frontal control knob for volume level adjustment. Mains voltage power supply 230Vac - 50÷60Hz. Metallic case already set for rack installation. Size: 1 r.u.

POWER AMPLIFIER 500 W

UP500D

cod. 1400-150020



TECHNICAL SPECIFICATIONS

Input sensitivity	±385mV, balanced input
Balanced inputs impedance	20K Ω
Frequency response (-3dB):	80 + 16KHz (+1, -3dB)
THD	≤0,1% a 1KHz, 1/3 of rated power
Overload source	>10dB
Signal/noise ratio	≥85dB
Rating power RMS	500W
Power I.H.F.	700W
Speaker outputs, constant imp.	4-16 Ω
Speaker outputs, constant volt.	100V
Protections	overheating, overload, short circuit
Signal Led	signal, peak protection, power
Power supply from AC mains	230Vac - 50Hz
Power consumption	750VA
Dimensions (WxHxD)	484x300x44mm
Colour	black
Weight	3,9Kg

Monophonic class D power amplifier, 500W. It features: one balanced input and one output for loudspeakers line, on extractable clamps. Through slip switch it is possible to select the output type (100V or 4-16Ohm). Additional output clamp for contact "amplifier fault". On the frontal part there are some led lights for signal: signal, peak, protection, power. Electronically-controlled forced ventilation cooling. Practical frontal control knob for volume level adjustment. Mains voltage power supply 230Vac - 50±60Hz. Metallic case already set for rack installation. Size: 1 r.u.

POWER AMPLIFIER 2x120 W

UP2120D

cod. 1400-212020



TECHNICAL SPECIFICATIONS

Input sensitivity	+385mV, balanced input
Balanced inputs impedance	20K Ω
Frequency response (-3dB)	80 + 16KHz (+1, -3dB)
THD	$\leq 0,1\%$ a 1KHz, 1/3 of rated power
Overload source	>10dB
Signal/noise ratio	≥ 85 dB
Rating power RMS	2x120W
Power I.H.F.	2x180W
Speaker outputs, constant imp.	4-16 Ω
Speaker outputs, constant volt.	100V
Protections	overheating, overload, short circuit
Signal Led	signal, peak protection, power
Power supply from AC mains	230Vac - 50Hz
Power consumption	320VA
Dimensions (WxHxD)	484x300x44mm
Colour	black
Weight	4,4Kg

Monophonic class D power amplifier, 2X120W. It features: one balanced input and one output for loudspeakers line, on extractable clamps. Through slip switch it is possible to select the output type (100V or 4-16Ohm). Additional output clamp for contact "amplifier fault". On the frontal part there are some led lights for signal: signal, peak, protection, power. Electronically-controlled forced ventilation cooling. Practical frontal control knob for volume level adjustment. Mains voltage power supply 230Vac - 50 \pm 60Hz. Metallic case already set for rack installation. Size: 1 r.u.

POWER AMPLIFIER 2x240 W

UP2240D

cod. 1400-224020



TECHNICAL SPECIFICATIONS

Input sensitivity	±385mV, balanced input
Balanced inputs impedance	20K Ω
Frequency response (-3dB)	80 ÷ 16KHz (+1, -3dB)
THD	≤0,1% a 1KHz, 1/3 of rated power
Overload source	>10dB
Signal/noise ratio	≥85dB
Rating power RMS	2x240W
Power I.H.F.	2x360W
Speaker outputs, constant imp.	4-16 Ω
Speaker outputs, constant volt.	100V
Protections	overheating, overload, short circuit
Signal Led	signal, peak protection, power
Power supply from AC mains	230Vac - 50Hz
Power consumption	650VA
Dimensions (WxHxD)	484x300x44mm
Colour	black
Weight	4,5Kg

Monophonic class D power amplifier, 2x240W. It features: one balanced input and one output for loudspeakers line, on extractable clamps. Through slip switch it is possible to select the output type (100V or 4-16Ohm). Additional output clamp for contact "amplifier fault". On the frontal part there are some led lights for signal: signal, peak, protection, power. Electronically-controlled forced ventilation cooling. Practical frontal control knob for volume level adjustment. Mains voltage power supply 230Vac - 50÷60Hz. Metallic case already set for rack installation. Size: 1 r.u.

POWER AMPLIFIER 2x500 W

UP2500D

cod. 1400-250020



TECHNICAL SPECIFICATIONS

Input sensitivity	±385mV, balanced input
Balanced inputs impedance	20K Ω
Frequency response (-3dB)	80 + 16KHz (+1, -3dB)
THD	≤0,1% a 1KHz, 1/3 of rated power
Overload source	>10dB
Signal/noise ratio	≥85dB
Rating power RMS	2x500W
Power I.H.F.	2x700W
Speaker outputs, constant imp.	4-16 Ω
Speaker outputs, constant volt.	100V
Protections	overheating, overload, short cicrcuit
Signal Led	signal, peak protection, power
Power supply from AC mains	230Vac - 50Hz
Power consumption	1250VA
Dimensions (WxHxD)	484x44x300mm
Colour	black
Weight	4,7Kg

Monophonic class D power amplifier, 2x500W. It features: one balanced input and one output for loudspeakers line, on extractable clamps. Through slip switch it is possible to select the output type (100V or 4-16Ohm). Additional output clamp for contact "amplifier fault". On the frontal part there are some led lights for signal: signal, peak, protection, power. Electronically-controlled forced ventilation cooling. Practical frontal control knob for volume level adjustment. Mains voltage power supply 230Vac - 50±60Hz. Metallic case already set for rack installation. Size: 1 r.u.

POWER AMPLIFIER 4x120 W

UP4120D

cod. 1400-412020



TECHNICAL SPECIFICATIONS

Input sensitivity	±385mV, balanced input
Balanced inputs impedance	20K Ω
Frequency response (-3dB)	80 + 16KHz (+1, -3dB)
THD	≤0,1% a 1KHz, 1/3 of rated power
Overload source	>10dB
Signal/noise ratio	≥85dB
Rating power RMS	4x120W
Power I.H.F.	4x180W
Speaker outputs, constant imp.	4-16 Ω
Speaker outputs, constant volt.	100V
Protections	overheating, overload, short circuit
Signal Led	signal, peak protection, power
Power supply from AC mains	230Vac - 50Hz
Power consumption	650VA
Dimensions (WxHxD)	484x300x44mm
Colour	black
Weight	6,2Kg

Monophonic class D power amplifier, 4x120W. It features: one balanced input and one output for loudspeakers line, on extractable clamps. Through slip switch it is possible to select the output type (100V or 4-16Ohm). Additional output clamp for contact "amplifier fault". On the frontal part there are some led lights for signal: signal, peak, protection, power. Electronically-controlled forced ventilation cooling. Practical frontal control knob for volume level adjustment. Mains voltage power supply 230Vac - 50±60Hz. Metallic case already set for rack installation. Size: 1 r.u.

MULTIMEDIA PLAYER

SRCD

cod. 1500-131010



TECHNICAL SPECIFICATIONS

TUNER	Frequency range	FM 87,5 + 108MHz
	Sensitivity	6uVemf
	Frequency step	50KHz
	Output level	-5dBu; 400mV
	Frequency response	50 + 15000Hz
	Nominal harmonic distortion 1KHz	<1%
	Signal to noise ratio	>55dB
	Search time	-6"
CD/USB/SD/MMC	TOC reading time	-6"
	File type	MP3
	Output level	+4dBu; 1,2V
	Frequency response	20 + 20000Hz
	Nominal harmonic distortion 1KHz	<0,2%
	Signal to noise ratio	>80dB
	AC operating voltage	230Vac - 50+60Hz
	Current consumption	10VA
Dimensions (WxHxD)	483x44x250mm	
Colour	black	
Weight	3,7Kg	

Professional sound source with two independent sections:

- FM digital tuner, stores up to 60 stations, manual or automatic tuning, back-lit display, front control buttons, stereo output via RCA connectors.
- CD/MP3/USB/SD/MMC player, mechanical anti-shock system, back-lit display, front control buttons, stereo output via RCA connectors.

The unit also features an additional stereo output via RCA connectors which mixes two sections with priority for CD mode, switches automatically to Tuner mode when disc ends. Features IR remote control for Tuner and CD modes. It can be rack mounted. Size: 1 r.u.

FEEDBACK SUPPRESSOR

PAL

cod. 1600-111010



TECHNICAL SPECIFICATIONS

Input sensitivity	+0dBu
Input impedance	47k Ω
Output level	-12 + 0dBu
Frequency shift	2 - 20Hz
Larsen effect gain	10dB
Frequency response	85 - 15000Hz
Signal/noise ratio	>72dB
Power supply from AC mains	230Vac - 50+60Hz
Power consumption	15VA
Dimensions (WxHxD)	436x44x154mm
Colour	black
Weight	1,0Kg

Processor used to reduce noise in sound systems when the speaker sound is fed back to the amplification system through a microphone (Larsen effect). Especially suitable for churches, conference rooms and auditoriums. The operating principle is based on frequency shift between the incoming and outgoing signal, to avoid triggering the Larsen effect. Connection is made from the Send output to the Return input of a mixer/amplifier or from the Pre output of a mixer to the input of the power unit.

Housed in coated metal box and provided with controls for: frequency shift adjustment within the 2- 20 Hz range; up/down shift selection; output level adjustment; activation/deactivation of the suppression effect. It can be rack mounted. Size: 1 r.u.

TELEPHONE INTERFACE

IPV

cod. 1600-121010



TECHNICAL SPECIFICATIONS

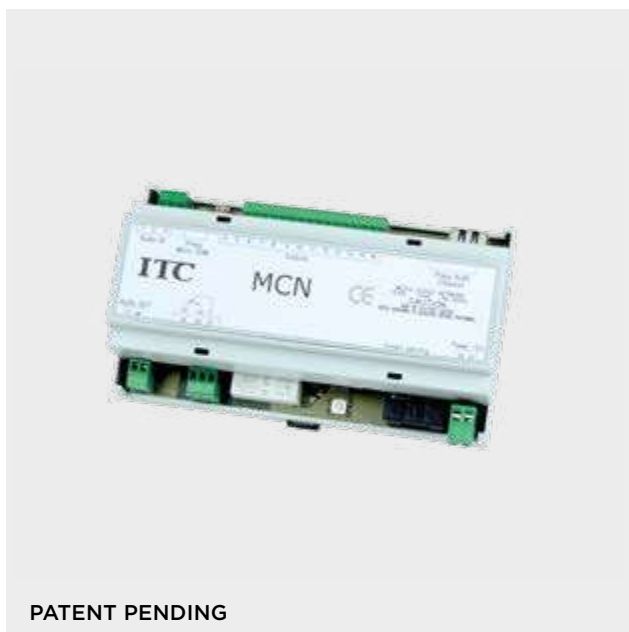
Input sensitivity	-50 + -2dBu; 2,5 + 500mv
Input impedance	10K Ω
Release time	1" + 7"
Power supply	24Vdc
Dimensions (WxHxD)	154x42x81mm
Colour	black
Weight	0,6Kg

Unit for automatic activation of priority contact of mixers/ amplifiers, to be used to interface telephone exchange boards (PABX) provided with dedicated audio output. A micro/line level audio signal must be applied to the input to trigger the output. Housed in a coated metal box and provided with unbalanced audio input with XLR 3-pole connector, input level adjustment, release time adjustment, status LED and audio output with DIN 5-pin connector for connection to mixers/amplifiers models PRE6, PRE5, A120MD, A240MD and A100M from which it receives 24Vdc power. Supplied with a 1-meter long connection cable with 5-pole DIN connectors at both ends.

AUDIO AND VIDEO PLAYER WITH IOT (Internet Of Things) TECHNOLOGY

MCN

cod. 1600-151010



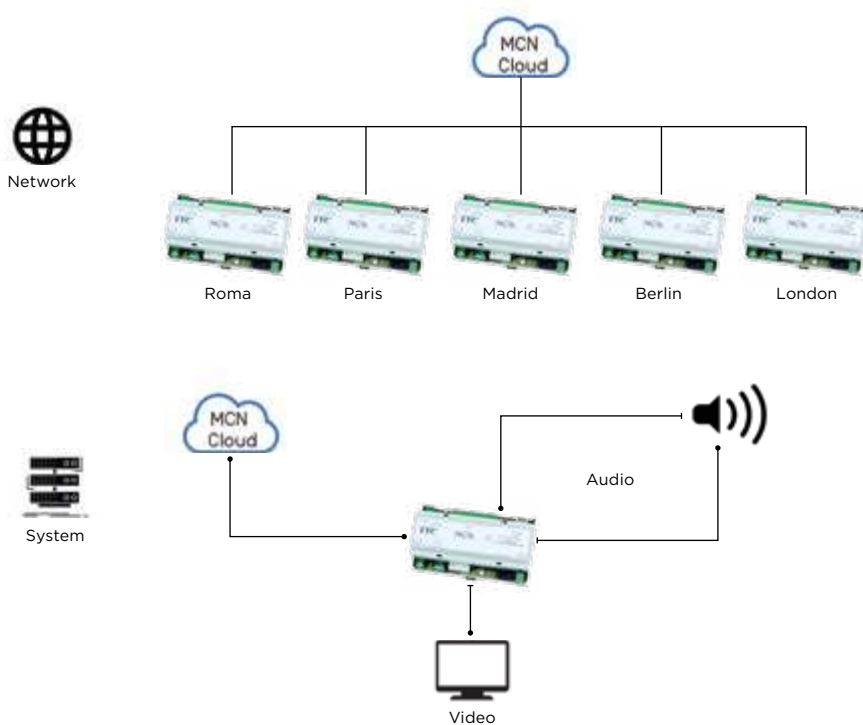
MCN is born in order to meet the demand to remotely manage the sound broadcasting of advertising media (audio and video) in different locations, geographically positioned in different places. In a simple and intuitive way, MCN realizes the scheduling of the media to play in the different locations, spacing them out with the music coming from an external source. Thanks to MCN it is also possible to define some customized messages, associated with specific buttons installed in the interested departments. Through the provisioning, MCN can autonomously self-set up, reducing a lot the installation and maintenance time. Made on a box suitable for DIN rail, 9 modules. It needs 12Vdc power supply.

FEATURES

- IoT (Internet of Things)
- mix of an external audio source and pre-registered audio messages
- audio and video messages on a national, regional, provincial or point-point base

VANTAGGI

- installation and expansion ease
- distribution policies flexibility
- intuitive management of the whole network
- less management costs





Wired and wireless microphones

A series of different
microphones
which guarantees
listening quality
and **speech**
intelligibility.



MICROFONO IMPUGNATURA

MI50

cod. 1800-111010



Monodirectional cardioid handheld dynamic microphone, balanced at low impedance, especially suitable for high-quality voice playback. Die-cast metal body, painted metal grille and on/off switch. Supplied with connection cable with XLR/Jack connectors, Jack/XLR adapter and removable support for microphone stand. Black colour.

TECHNICAL SPECIFICATIONS

Microphone	dynamic
Frequency response	80 + 12000Hz
Pick-up pattern	cardioid
Sensitivity	-74dB
Impedance	600Ω
Cable length	5m
Dimensions	ø54mm x 165mm
Colour	black

PROFESSIONAL HAND-HELD MICROPHONE

MI500

cod. 1800-112010



Professional unidirectional cardioid handheld dynamic microphone, balanced at low impedance, especially suitable for high-quality voice playback. Die-cast metal body, anodized metal grille and on/off activation switch. Provided with connection cable with XLR/Jack connectors, Jack/XLR adapter and removable support for microphone stand. Black colour.

TECHNICAL SPECIFICATIONS

Microphone	dynamic
Frequency response	80 + 16000Hz
Pick-up pattern	cardioid
Sensitivity	-49dB
Impedance	400Ω
Cable length	5m
Dimensions	ø50mm x 195mm
Colour	black

PROFESSIONAL HAND-HELD MICROPHONE

MI550

cod. 1800-113010



Electronically balanced professional unidirectional electret cardioid microphone especially suitable for high-quality voice playback. Die-cast metal body, painted metal grille. Remotely powered by 9-52V phantom voltage source. Supplied with connection cable with XLR connectors at both ends and removable support for microphone stand. Black colour.

TECHNICAL SPECIFICATIONS

Microphone	electret
Frequency response	50 + 16000Hz
Pick-up pattern	cardioid
Sensitivity	-45dB
Impedance	250Ω
Cable length	9 + 52V
Dimensions	5m
Colour	ø50mm x 185mm
Colore	black

DESKTOP MICROPHONE

MT1000

cod. 1800-141010



Electronically balanced electret semi-cardioid boundary microphone especially suitable for high-quality voice playback in applications that require high sensitivity and directionality (churches, etc.). It requires standard phantom power supply with range from 9 to 52Vdc.

Die-cast metal body, painted metal grille and anti-slip rubber bottom, suitable for all flat surfaces. Provided with connection cable with XLR connectors. Black colour.

TECHNICAL SPECIFICATIONS

Microphone	electret
Frequency response	30 + 20000Hz
Pick-Up pattern	semi-cardioid
Sensitivity	-53dB
Impedance	250Ω
Phantom power supply	9 + 52V
Cable length	5m
Dimensions	ø18mm x 23mm
Colour	black

GOOSENECK MICROPHONE

MG

cod. 1800-161010



Professional unidirectional cardioid electret microphone, electronically balanced, optimised for voice pick-up since it produces a frequency response with an essentially constant output voltage over the voice spectrum.

Remotely powered by standard 9-52V phantom voltage source. Semi-rigid gooseneck with XLR connector for fast coupling on specific BMG base and recessed XLR connector for the floor microphone stand APD. Package includes 4,5m connecting cable with XLR male/female connectors. Black colour.

TECHNICAL SPECIFICATIONS

Microphone	electret
Frequency response	50 + 18000Hz
Pick-up Pattern	cardioid
Sensitivity	-46dB
Impedance	250Ω
Phantom power supply	9 + 52V
Stem diameter	9mm
Total length	570mm
Colour	black

DESKTOP BASE FOR GOOSENECK MICROPHONE

BMG

cod. 1800-041010



Base for removable gooseneck microphones.

Die-cast painted metal body and anti-slip rubber bottom. It has got a button and related activation led light. XLR female connector on the upper side and XLR male connector on the back side. Dark grey colour.

BMG + MG



TECHNICAL SPECIFICATIONS

Dimensions	ø95mm x 35mm
Cable length	3m
Colour	black
Weight	0,9Kg

DESK MICROPHONE STAND

AT

cod. 1800-011010

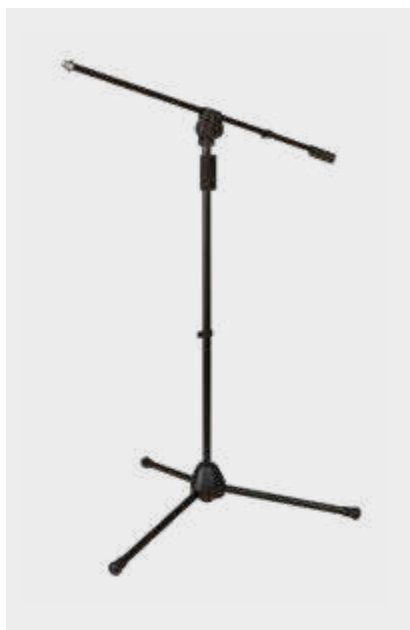


Telescoping desk stand for hand-held microphones. Cast iron body with anti-slip rubber feet. Black coated steel staff provided with 3/8" adaptor and two cable clamps. Adjustable height: 34÷61 cm. Black colour.

BOOM MICROPHONE STAND

APG

cod. 1800-021010



Base a "giraffa" regolabile con stelo telescopico 980÷1580mm, per microfono/radiomicrofono ad impugnatura. Asta in metallo verniciato corredata di riduttore 3/8" e due fermacavi. Basamento a treppiede con gommini antiscivolo. Colore nero.

FLOOR MICROPHONE STAND

APD

cod. 1800-031010



Straight stand with 90÷160 cm telescopic staff, for handheld microphones and gooseneck microphones. Black coated steel staff provided with 3/8" adaptor and two cable clamps. Cast iron 25-cm diameter round base with anti-slip rubber feet. Black colour.

REMOVABLE MICROPHONE SUPPORT

PMS

cod. 1800-001010



Support for desktop or floor stands suitable for handheld microphones. Semi-rigid rubber body, internal brass element with 3/8" thread.
Black colour.

CLAMP MICROPHONE SUPPORT

PMP

cod. 1800-002010



Support for desktop or floor stands suitable for handheld microphones. Anti-shock ABS body, internal brass element with thread 3/8".
Black colour.

HAND-HELD WIRELESS MICROPHONE KIT

RMI

cod. 1800-211011



BODY PACK WIRELESS MICROPHONE KIT

RML

cod. 1800-221011



TECHINICAL SPECIFICATIONS

SYSTEM	
Channels	single (on 120 frequencies)
Type	Diversity, UHF (PLL)
Band	UHF, 540 ÷ 590 MHz
Frequency response	45 Hz ÷ 15 kHz (+ 2 DB)
Frequency balance	± 0,005 %
Functioning range	100m*
Distortion (T.H.D.)	0,5% (1 KHZ)
Functioning temperature	-18°C ÷ 57°C
Dynamic	>100dB
RECEIVER	
Balanced audio output level	-13dBV (XLR connector)
Unbalanced audio output level	-2 dBV (3,5mm jack connector)
Radio frequency sensitivity	-105 DBM / 12 DB SINAD
Antennas	removable
Power supply	12-18Vdc/150mA (included)
Dimensions	197x42x134mm (ingombro rack 1/2 unità)
Weight	0,9Kg
TRASMETTITORE (RMI - RML)	
Radio output power	max 30 mW
Frequency response	RMI : 50 Hz ÷ 15 kHz (+ 3 DB) RML : 45 Hz ÷ 15 kHz (+ 2 DB)
RMI type	Dynamic, cardioid
RML type	Electret, Lavalier type
Pilot tone frequency	30-33 kHz
Max. deviation	± 38 kHz
Power supply	2xAA batteries
Dimensions	RMI : 25x51(diam.) mm RML : 64x108x19mm
Weight	RMI : 290g RML : 81g (without batteries)

*Depending on the absorption, the reflection and the reflection of the RF interference signal

ITC radio microphone kits are characterized by the type of transmitter combined with a desktop receiver, at a variable frequency. Two versions available: hand-held microphone (art. RMI) or lavalier microphone (art. RML). The receiver has got 2 aerials in order to obtain the "diversity" function, which means that the radio signal is automatically selected with a better level from one of the two aerials. This function improves the microphone reliability and covering, avoiding annoying signal interruptions and interferences. It offers an innovative automated installation functionality, such as the automatic frequency research and the transmitter configuration. Obviously, it is possible to manually choose the channel, both on the transmitter and the receiver.

An extreme wireless clearness and a high-performance microphone make this product suitable for churches, conference rooms, auditoriums, schools and so on. The hand-held transmitter is provided with unidirectional dynamic microphone pod. Body in protector and ergonomic ABS, painted metal grill with On/Off/Mute buttons and channel selection button. LCD display for: battery status, selected channel and setting procedures. Suitable for 2 1,5V AA batteries (not included).

The body-back transmitter is made of protector ABS, it is small and light, with a belt clip, TA4M connector for the microphone pod, On/Off/Mute buttons and channel selection button. LCD display for: battery status, selected channel and setting procedures. Suitable for 2 1,5V AA batteries (not included).

HEADSET MICROPHONE

MHS

cod. 1800-205010



TECHNICAL SPECIFICATIONS

Microphone	electret
Frequency response	60 + 16000Hz
Pick-Up-Pattern	cardioid
Sensibility	-40dB
Impedance	250Ω
Cable length	1,5m
Connection	male jack TS 3,5mm
Colour	black

Unbalanced unidirectional electret microphone headset applied to flexible mount, with the option of being used alongside the body-pack transmitter. Particularly suitable for use when the speaker is in continuous movement (during sports activities etc.) and/or as suitable insulation from ambient noise. Anti-pop filter included.
Black colour.

DESKTOP MICROPHONE UNIT

BM1

cod. 1800-351010



TECHNICAL SPECIFICATIONS

Microphone	gooseneck - dynamic
Frequency response	50 + 15000Hz
Pick-up pattern	cardioid
Sensitivity	-54dB
Impedance	500Ω
Microphone length	410mm
Power supply	12Vdc
Priority contact: yes	YES
Connection	RJ45
Material	aluminium + ABS
Dimensions	106x60x130mm
Colour	nero/grigio

Microphone unit with gooseneck dynamic unidirectional low impedance microphone with balanced output, for voice announcements. Provided with both a dual-toggle switch and a pushbutton for TALK talk function. Specially designed for use with mixer/amplifiers models PRE5, PRE6, A120MD, A240MD and A100M (with the cable CDINRJ45 - code 1800-303010, not included), it provides a priority contact for attenuating other sound sources and generating a chime tone. Remotely powered by same mixer/amplifiers. Aluminium body, ABS sides with feet. Complete with 2m-long CAT5 connection cable.

WAY INTERCOM KIT

SI2C

cod. 1800-361010



The intercom kit is designed to make conversation easier between operators and clients in case of safety glasses that impair sound transmission. Specific functions are available to set the system in automatic mode to allow the operator to work without using buttons or other controls. Alternatively, the system can be set to manual mode to mute the operator microphone for the public and activate it only by pushing the button, when necessary. Moreover, the system can be set to stand-by mode to mute both the operator and the client microphones when the counter is closed. The system includes a control unit and microphone station to be installed at the operator side, a microphone capsule and a passive speaker to be installed at the client side.

TECHNICAL SPECIFICATIONS

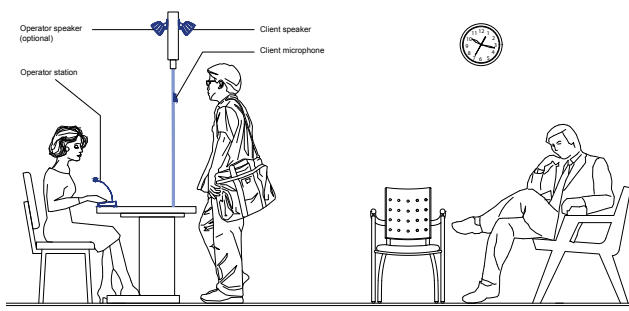
Operator microphone	electret monodirectional
User microphone	condenser microphone capsule
Operator speaker	3W/80hm
User speaker	10W/40hm
Microphone length	490mm
Power supply:	500 mA 230Vac/15Vdc
Microphone cable length	3,5m
Speaker cable length	3m
Material	aluminium + ABS
PMO dimensions (WxHxD)	206x55x130mm
DPC dimensions (WxHxD)	120x110x85mm
Colour	RAL 7035 / grey
Weight	1,5kg

CONTROL UNIT

It contains the circuits to manage incoming and outgoing signals. It is provided with one gooseneck, electret cardioid microphone with light ring, three functional buttons with status indicating LEDs, a built-in speaker and two trimmers for independent adjustment of volume of both stations. 12÷18Vdc power supply with power supply unit supplied. An additional passive speaker type DPC can be connected in combination with the built-in speaker, in case of much background noise. Possibility to connect double 3,5mm jack headphones, excluding loudspeaker and microphone. Aluminium extruded body, ABS sides with feet. Grey/black colour.

CLIENT STATION

- ABS black speaker with 4 Ohm passive speaker, complete with C-shaped fixing bracket and 2x0.75mm2 connection cable (3m) with RCA connector.
- Miniaturised electret cardioid microphone capsule on ABS black support with high-resistance bi-adhesive for fixing on glass, complete with 3.5m connection cable with 3.5mm jack.





Loudspeakers

Wall or ceiling speakers and accessories.

Extended selection of loudspeakers to meet any technical and aesthetic needs. Wall or ceiling installation, both protruding and recessed and with the possibility of colour customization. Also available a series of speakers for evac systems.

EN 54 10W CEILING MOUNT SPEAKER

DC230 / T10EN
cod. 1900-230061

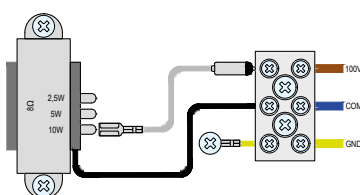


EN54-24 certified 10W ceiling speaker, suitable for quality reproduction of announcements and background music. Painted metal body and grille, with spring clips for quick and easy ceiling mounting on flame-resistant caps. Complete with line transformer with selectable power for better sound level regulation. Dual ceramic terminal block for 100V signal input and output and thermal fuse for exclusion from mains line in the event of temperatures above 150°C. Particularly suitable for emergency announcements.

TECHNICAL SPECIFICATIONS

Type	recessed in false ceiling
Operating voltage	100V
RMS power	10W
Intermediate power	10/5/2.5W
Transformer impedance	1/2/4KΩ
Frequency response	170 + 20000Hz
Dispersion angle	140° (1KHz) / 120° (4KHz)
S.P.L. 1W@1m	93 +3dB
Speaker type	6.5" full range
Speaker impedance	8Ω
Dimensions	ø230mm x 129mm
Hole dimensions	ø205mm
Material	steel
Colour	white
Weight	1,75Kg

CONNECTION



EN 54 6W CEILING MOUNT SPEAKER

DC185/T6EN
cod. 1900-185061

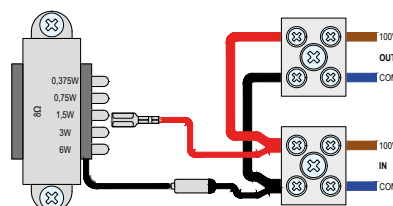


EN54-24 certified 6W ceiling speaker, suitable for quality reproduction of announcements and background music. Painted metal body and grille, with spring clips for quick and easy ceiling mounting on flame-resistant caps. Complete with line transformer with selectable power for better sound level regulation. Dual ceramic terminal block for 100V signal input and output and thermal fuse for exclusion from mains line in the event of temperatures above 150°C. Particularly suitable for emergency announcements.

TECHNICAL SPECIFICATIONS

Type	recessed in false ceiling
Operating voltage	100V
RMS power	6W
Intermediate power	6/3/1.5/0.75/0.38W
Transformer impedance	1.24/1.84/3.34/6.79/13.3KΩ
Frequency response	130 + 18000Hz
Dispersion angle	180° (1KHz) / 150° (2KHz) / 70° (4KHz)
S.P.L. 1W@1m	86.5 +3dB
Speaker type	5" full range
Speaker impedance	8Ω
Dimensions	ø180mm x 147mm
Hole dimensions	ø160mm
Material	steel
Colour	white
Weight	1,2Kg

CONNECTION



EN54 6W WALL SPEAKER

DP2520 / T6EN
cod. 1900-252061

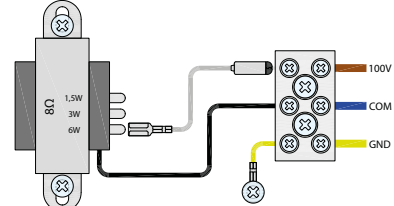


EN54-24 certified 6W protruding wall speaker, suitable for quality reproduction of announcements and background music. Painted wood body and metal grille. Complete with line transformer with selectable power for better sound level regulation. Dual ceramic terminal block for 100V signal input and output and thermal fuse for exclusion from mains line in the event of temperatures above 150°C. Particularly suitable for emergency announcements.

TECHNICAL SPECIFICATIONS

Type	protruding wall speaker
Operating voltage	100V
RMS power	6W
Intermediate power	6/3/1.5W
Transformer impedance	1.7/3.3/6.7KΩ
Frequency response	150 + 20000Hz
Dispersion angle	180° (1KHz) / 70° (4KHz)
S.P.L. 1W@1m	92 +3dB
Speaker type	6.5" full range
Speaker impedance	8Ω
Dimensions	254,5mm(H) x 204,5 (W) x 87,5 mm (D)
Material	wood/steel
Colour	white
Weight	1,6Kg

CONNECTION



EN54 20W HORN SPEAKER

DT165 / T20EN

cod. 1900-165203

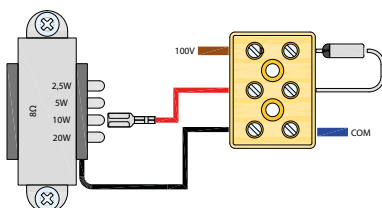


EN54-24 certified 20W horn wall speaker, suitable for quality reproduction of announcements in those places where a high acoustic performance is required. ABS body with round bell, equipped with a "U" adjustable bracket, for an easy mounting, both indoor and outdoor. Complete with line transformer with selectable power for better sound level regulation. Dual cable gland and dual ceramic terminal block for 100V signal input and output and thermal fuse for exclusion from mains line in the event of temperatures above 150°C. Particularly suitable for emergency announcements.

TECHNICAL SPECIFICATIONS

Type	wall speaker
Operating voltage	100V
RMS power	20W
Intermediate power	20/10/5/2.5W
Transformer impedance	0,5/1/2/4KΩ
Frequency response	350 + 9000Hz
S.P.L. 1W@1m	106 +3dB
Speaker	magnetic-dynamic device
Speaker impedance	8Ω
IP protection grade	66
Dimensions	ø165mm x 238mm
Fixing	U bracket
Material	ABS
Colour	grey
Weight	1,9Kg

CONNECTION



EN54 20W BIDIRECTIONAL PROJECTOR SPEAKER

SPJ-52WHBS

cod. 8105-131030

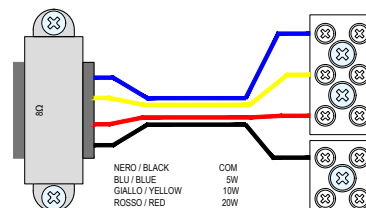


EN54-24 certified 20W bidirectional projector wall speaker, suitable for quality reproduction of announcements in those places where a high efficiency in a direction is required. It reduces the echoes from back and side walls, floors and ceilings. Aluminium body with painted metal grill, equipped with a wall bracket, for an easy mounting, both indoor and outdoor. Complete with line transformer with selectable power for better sound level regulation. Dual ceramic terminal block for 100V signal input and output and thermal fuse for exclusion from mains line in the event of temperatures above 110°C. Particularly suitable for emergency announcements.

TECHNICAL SPECIFICATIONS

Type	wall speaker
Operating voltage	100V
RMS power	20W
Intermediate power	20/10/5W
Transformer impedance	0,5/1/2/4KΩ
Frequency response	120 + 20000Hz
S.P.L. 1W@1m	89 +3dB
Speaker	5" full range
Speaker impedance	8Ω
IP protection grade	56
Dimensions	ø146mm x 186mm
Fixing	wall bracket
Material	aluminium
Colour	white
Weight	3,3Kg

CONNECTION



EN54 20W PROJECTOR SPEAKER

PSS / T20EN
cod. 1900-146201

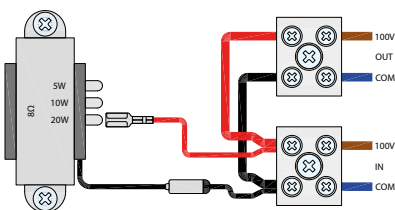


EN54-24 certified 20W projector wall speaker, suitable for quality reproduction of announcements in those places where a high efficiency in a direction is required. It reduces the echoes from back and side walls, floors and ceilings. Aluminium bod, equipped with a "U" adjustable bracket, for an easy mounting, both indoor and outdoor. Complete with line transformer with selectable power for better sound level regulation. Dual cable gland and dual ceramic terminal block for 100V signal input and output and thermal fuse for exclusion from mains line in the event of temperatures above 150°C. Particularly suitable for emergency announcements.

TECHNICAL SPECIFICATIONS

Type	wall speaker
Operating voltage	100V
RMS power	20W
Intermediate power	20/10/5W
Transformer impedance	0,5/1/2/4KΩ
Frequency response	130 + 20000Hz
Dispersion angle	230° (1Khz) / 60° (4Khz)
S.P.L. 1W@1m	91 +3dB
Speaker	5" full range
Speaker impedance	8Ω
IP protection grade	66
Dimensions	ø146mm x 207mm
Fixing	U bracket
Material	steel
Colour	white
Weight	2,5Kg

CONNECTION



EN54 15W PROJECTOR SPEAKER

PSS / T15EN
cod. 1900-198151

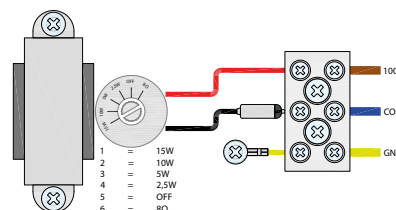


EN54-24 certified 15W projector wall speaker, suitable for quality reproduction of announcements in those places where a high efficiency in a direction is required. It reduces the echoes from back and side walls, floors and ceilings. Self-extinguishing ABS body equipped with a "U" adjustable bracket, for an easy mounting, both indoor and outdoor. Complete with line transformer with selectable power for better sound level regulation. Ceramic terminal block for 100V signal input and output and thermal fuse for exclusion from mains line in the event of temperatures above 150°C. Particularly suitable for emergency announcements.

TECHNICAL SPECIFICATIONS

Type	wall/ceiling speaker
Operating voltage	100V
RMS power	15W
Intermediate power	15/10/5/2,5W
Transformer impedance	0,6/1/2/4KΩ
Frequency response	120 + 20000Hz
Dispersion angle	150° (1Khz) / 30° (4Khz)
S.P.L. 1W@1m	92 +3dB
Speaker	6,5" full range
Speaker impedance	8Ω
IP protection grade	65
Dimensions	ø198mm x 250mm
Fixing	U bracket
Material	ABS
Colour	white
Weight	2,35Kg

CONNECTION



6W CEILING MOUNT SPEAKER

DC10 / T6

cod. 1900-210061



Ceiling rounded mount speaker for excellent playback quality of voice announcements and background music in applications that require high-fidelity sound. ABS body and metal painted grille, provided with rotary hooks for easy and quick installation in false ceilings. Complete with line transformer with selectable power for better adjustment of sound level.

6W CEILING MOUNT SPEAKER

DC20 / T6

cod. 1900-120061

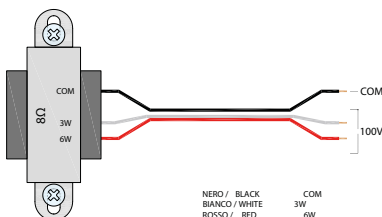


Ceiling rounded mount speaker for excellent playback quality of voice announcements and background music in applications that require high-fidelity sound. Painted metal body and grille, provided with rotary hooks for easy and quick installation in false ceilings. Complete with line transformer with selectable power for better adjustment of sound level.

TECHNICAL SPECIFICATIONS

Type	recessed in false ceiling
Operating voltage	100V
RMS power	6W
Intermediate power	6/3W
Transformer impedance	1,67/3,33K Ω
Frequency response	120 + 20000Hz
S.P.L. 1W@1m	87 \pm 3dB
Speaker type	2,5" full range
Speaker impedance	8 Ω
Dimensions	ϕ 103mm x 75mm
Hole dimensions	ϕ 92mm
Material	ABS/steel
Colour	white
Weight	0,5Kg

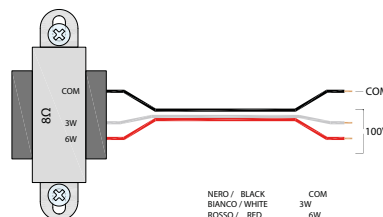
CONNECTION



TECHNICAL SPECIFICATIONS

Type	recessed in false ceiling
Operating voltage	100V
RMS power	6W
Intermediate power	6/3/1,5W
Transformer impedance	1,67/3,33/6,66K Ω
Frequency response	110 + 15000Hz
S.P.L. 1W@1m	90 \pm 3dB
Speaker type	5" full range
Speaker impedance	8 Ω
Dimensions	ϕ 200mm x 50mm
Hole dimensions	ϕ 170mm
Material	steel
Colour	white
Weight	0,7Kg

CONNECTION



DIFFUSORE DA INCASSO 10W

DC23 / T10
cod. 1900-123101

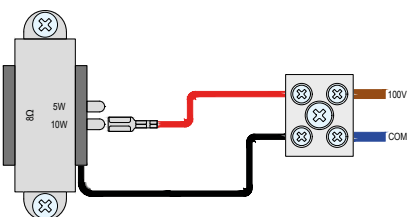


Ceiling rounded mount speaker for excellent playback quality of voice announcements and background music in applications that require high-fidelity sound. Painted metal body and grille, provided with rotary hooks for easy and quick installation in false ceilings. Complete with line transformer with selectable power for better adjustment of sound level.

TECHNICAL SPECIFICATIONS

Type	recessed in false ceiling
Operating voltage	100V
RMS power	10W
Intermediate power	10/5/2,5W
Transformer impedance	1/2/4KΩ
Frequency response	90 + 18000Hz
S.P.L. 1W@1m	91 +3dB
Speaker type	6" full range
Speaker impedance	8Ω
Dimensions	ø230mm x 106mm
Hole dimensions	ø200mm
Material	steel
Colour	white
Weight	1,2Kg

CONNECTION



40W CEILING MOUNT SPEAKER

DCR27 / T40
cod. 1900-227401

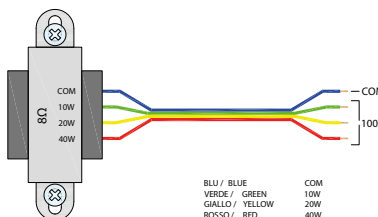


Ceiling rounded or squared mount speaker for excellent playback quality of voice announcements and background music in applications that require high-fidelity sound. ABS body with painted metal grille, provided with rotary hooks for easy and quick installation in false ceilings. Complete with line transformer with selectable power for better adjustment of sound level.

TECHNICAL SPECIFICATIONS

Type	recessed in false ceiling
Operating voltage	100V
RMS power	40W
Intermediate power	40/20/10W
Transformer impedance	0,25/0,5/1KΩ
Frequency response	50 + 20000Hz
S.P.L. 1W@1m	95 +3dB
Speaker type	Woofer 6" + tweeter 1"
Speaker impedance	8Ω
Dimensions	ø270mm x 92mm
Hole dimensions	ø240mm
Material	steel
Colour	white
Weight	1,8Kg

CONNECTION



40W CEILING MOUNT SPEAKER

DCQ25 / T40
cod. 1900-254401

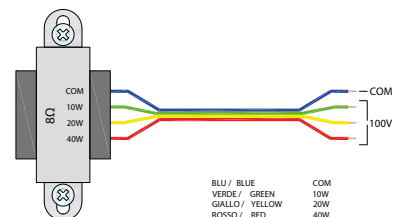


Ceiling rounded or squared mount speaker for excellent playback quality of voice announcements and background music in applications that require high-fidelity sound. ABS body with painted metal grille, provided with rotary hooks for easy and quick installation in false ceilings. Complete with line transformer with selectable power for better adjustment of sound level.

TECHNICAL SPECIFICATIONS

Type	recessed in false ceiling
Operating voltage	100V
RMS power	40W
Intermediate power	40/20/10W
Transformer impedance	0,25/0,5/1KΩ
Frequency response	50 + 18000Hz
S.P.L. 1W@1m	95 +3dB
Speaker type	Woofer 6" + tweeter 1"
Speaker impedance	8Ω
Dimensions	255x255x87mm
Hole dimensions	225x225mm
Material	steel
Colour	white
Weight	2,2Kg

CONNECTION



6W CEILING MOUNT SPEAKER

DCP2017 / T6

B cod. 1900-241061
N cod. 1900-241062
G cod. 1900-241063



10W CEILING MOUNT SPEAKER

DCP2017 / T10

B cod. 1900-241101
N cod. 1900-241102
G cod. 1900-241103



2-WAY 10W CEILING MOUNT SPEAKER

DCP2017 / 2T10

B cod. 1900-2421011
N cod. 1900-2421012
G cod. 1900-2421013



Ceiling rectangular mount speaker, with rounded angles, for excellent playback quality of voice announcements and background music in applications that require high-fidelity sound. ABS body with painted metal grille, provided with rotary hooks for easy and quick installation in false ceilings. Alternatively, it can be wall mounted with the GEWISS PT5 box (not included). Complete with line transformer with selectable power for better adjustment of sound level. Available in: white, black and grey. The speaker is made in 3 different versions: 6W, 10W and 10W with 2-way loudspeaker.

TECHNICAL SPECIFICATIONS

Type	recessed in false ceiling
Operating voltage	100V
RMS power	6W
Intermediate power	6/3/1,5W
Transformer impedance	1,67/3,33/6,66KΩ
Frequency response	120 + 18000Hz
S.P.L. 1W@1m	92dB
Speaker type	4" Bicone
Speaker impedance	4Ω
Dimensions	195x166x55mm
Hole dimensions	155x125mm
Material	ABS/steel
Colour	white, black, grey
Weight	0,9Kg

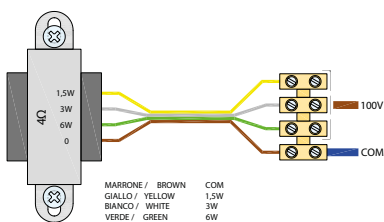
TECHNICAL SPECIFICATIONS

Type	recessed in false ceiling
Operating voltage	100V
RMS power	10W
Intermediate power	10/5/2,5W
Transformer impedance	1/2/4KΩ
Frequency response	120 + 18000Hz
S.P.L. 1W@1m	93dB
Speaker type	4" Bicone
Speaker impedance	4Ω
Dimensions	195x166x55mm
Hole dimensions	155x125mm
Material	ABS/steel
Colour	white, black, grey
Weight	1,0Kg

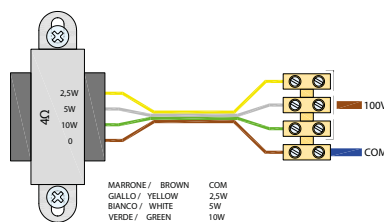
TECHNICAL SPECIFICATIONS

Type	recessed in false ceiling
Operating voltage	100V
RMS power	10W
Intermediate power	10/5/2,5W
Transformer impedance	1/2/4KΩ
Frequency response	120 + 18000Hz
S.P.L. 1W@1m	93dB
Speaker type	4" 2 vie
Speaker impedance	4Ω
Dimensions	195x166x55mm
Hole dimensions	155x125mm
Material	ABS/steel
Colour	white, black, grey
Weight	1,0Kg

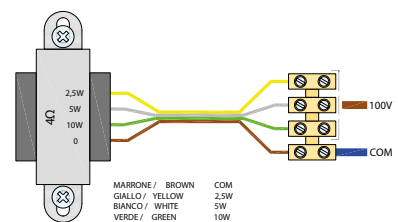
CONNECTION



CONNECTION



CONNECTION



6W WALL SPEAKER

DP2512 / T6

B cod. 1900-251061
N cod. 1900-251062
G cod. 1900-251063



10W WALL SPEAKER

DP2512 / T10

B cod. 1900-251101
N cod. 1900-251102
G cod. 1900-251103



20W WALL-MOUNT SPEAKER

CP / T20E

B cod. 1900-322201
N cod. 1900-322202



Wall-mount speaker for excellent playback quality of voice announcements and background music. Polycarbonate self-extinguishing body in class V2. Complete with line transformer with selectable power for better adjustment of sound level. Available in: white, black and grey. Two different versions: 6W and 10W.

20W wall speaker with excellent quality of voice announcements and background music. ABS body with painted metal grille, provided with adjustable C-bracket for easy installation on wall. Complete with line transformer with selectable power for better adjustment of sound level.

TECHNICAL SPECIFICATIONS

Type	wall-projecting
Operating voltage	100V
RMS power	6W
Intermediate power	6/3/1,5W
Transformer impedance	1,67/3,33/6,66KΩ
Frequency response	120 + 18000Hz
S.P.L. 1W@1m	92dB
Speaker type	4" bicone
Speaker impedance	4Ω
Dimensions	250x120x73mm
Max. protrusion	73mm
Material	ABS
Colour	white, black, grey
Weight	1,0Kg

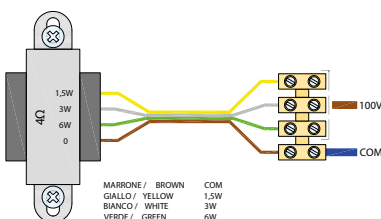
TECHNICAL SPECIFICATIONS

Type	wall-projecting
Operating voltage	100V
RMS power	10W
Intermediate power	10/5/2,5W
Transformer impedance	1/2/4KΩ
Frequency response	120 + 18000Hz
S.P.L. 1W@1m	93dB
Speaker type	4" bicone
Speaker impedance	4Ω
Dimensions	250x120x73mm
Max. protrusion	73mm
Material	ABS
Colour	white, black, grey
Weight	1,0Kg

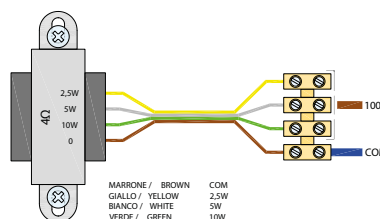
TECHNICAL SPECIFICATIONS

Type	wall
Operating voltage	100V
RMS power	20W
Intermediate power	20/10/5/2,5W
Transformer impedance	0,5/1/2/4KΩ
Frequency response	100 + 18000Hz
S.P.L. 1W@1m	89 +3dB
Speaker type	woofer 4" + tweeter 1"
Speaker impedance	8Ω
IP protection degree	50
Dimensions	160x235x145(160)mm
Fixing	C bracket
Material	ABS/steel
Colour	white, black
Weight	2,3Kg

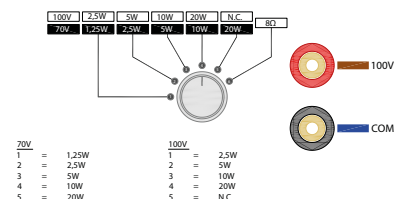
CONNECTION



CONNECTION



CONNECTION



30W SPEAKER CABINET

CPM / T30

B cod. 1900-353301



40W SPEAKER CABINET

CPM / T40

B cod. 1900-354401



60W SPEAKER CABINET

CPM / T60

B cod. 1900-356601



60W, 40W, 30W wall speaker cabinet. Professional, suitable for quality reproduction of announcements and background music in environments requiring high acoustic output and fidelity. MDF body with painted metal grille, with adjustable bracket (not included), for quick and easy wall mounting. Complete with line transformer with selectable power for better sound level regulation. Bracket for wall mounting: code 8108-006080

TECHNICAL SPECIFICATIONS

Type	wall
Operating voltage	100V
RMS power	30W
Intermediate power	30/15/7.5/3.75W
Transformer impedance	0,333/0,666/1,333/2,666K Ω
Frequency response	100 + 20000Hz
S.P.L. 1W@1m	98 +3dB
Speaker type	woofer 5" + tweeter 1"
Speaker impedance	8 Ω
IP protection degree	30
Dimensions	185x275x185(255)mm
Fixing:	C bracket (optional)
Material	MDF/ABS/steel
Colour:	white
Weight:	3,0Kg

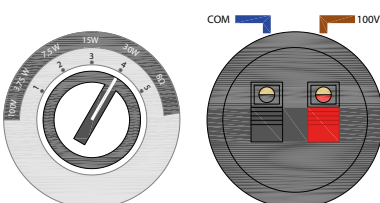
TECHNICAL SPECIFICATIONS

Type	wall
Operating voltage	100V
RMS power	40W
Intermediate power	40/20/10/5W
Transformer impedance	0,25/0,5/1/2K Ω
Frequency response	80 + 20000Hz
S.P.L. 1W@1m	98 +3dB
Speaker type	woofer 6" + tweeter 1"
Speaker impedance	8 Ω
IP protection degree	30
Dimensions	230x330x230(305)mm
Fixing:	C bracket (optional)
Material	MDF/ABS/steel
Colour:	white
Weight	5,0Kg

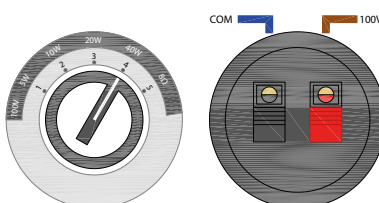
TECHNICAL SPECIFICATIONS

Type	da parete
Operating voltage	100V
RMS power	60W
Intermediate power	60/30/15/7.5W
Transformer impedance	0,166/0,333/0,666/1,333K Ω
Frequency response	50 + 20000Hz
S.P.L. 1W@1m	99 +3dB
Speaker type	woofer 8" + tweeter 1"
Speaker impedance	8 Ω
IP protection degree	30
Dimensions	275x400x275(350)mm
Fixing:	C bracket (optional)
Material	MDF/ABS/steel
Colour:	white
Weight	7,8Kg

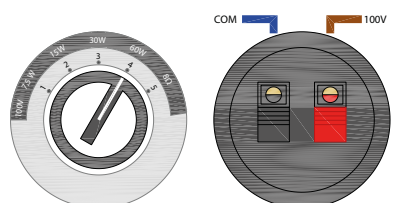
CONNECTION



CONNECTION



CONNECTION



20W WALL-MOUNT SPEAKER

CPA / T20

B cod. 1900-372201
N cod. 1900-372202



30W WALL-MOUNT SPEAKER

CPA / T30

B cod. 1900-373301
N cod. 1900-373302



20W SPHERICAL SPEAKER

DS25 / T20

cod. 1900-262201



30W, 20W corner wall speaker. Round, elegant lines, suitable for quality reproduction of announcements and background music in environments requiring high acoustic output. ABS body with painted metal grille, sliding bracket for quick and easy wall mounting. Complete with line transformer with selectable power for better sound level regulation. Available in: white and black.

Suspended omnidirectional speaker for excellent sound quality of voice announcements and background music in applications with high ceilings. ABS body with cable used for fixing. Complete with line transformer with selectable power for better adjustment of sound level.

TECHNICAL SPECIFICATIONS

Type	wall
Operating voltage	100V
RMS power	20W
Intermediate power	20/10/5/2,5W
Transformer impedance	0,5/1/2/4KΩ
Frequency response	160 + 20000Hz
S.P.L. 1W@1m	92 +3dB
Speaker type	woofer 3,5" + tweeter 1"
Speaker impedance	8Ω
IP protection degree	50
Dimensions	190x265x165mm
Fixing	bracket slide
Material	ABS/steel
Colour	white, black
Weight	1,4Kg

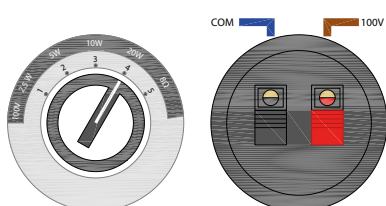
TECHNICAL SPECIFICATIONS

Type	wall
Operating voltage	100V
RMS power	30W
Intermediate power	30/15/7,5/3,75W
Transformer impedance	0,333/0,666/1,333/2,666KΩ
Frequency response	130 + 20000Hz
S.P.L. 1W@1m	93 +3dB
Speaker type	woofer 5" + tweeter 1"
Speaker impedance	8Ω
IP protection degree	50
Dimensions	230x310x190mm
Fixing	bracket slide
Material	ABS/steel
Colour	white, black
Weight	2,0Kg

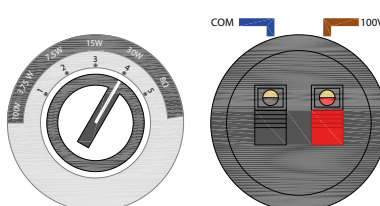
TECHNICAL SPECIFICATIONS

Type	suspended spherical
Operating voltage	100V
RMS power	20W
Intermediate power	20/10/5/2,5W
Transformer impedance	0,5/1/2/4KΩ
Frequency response	80 + 18000Hz
S.P.L. 1W@1m	92 +3dB
Speaker type	8" bicone
Speaker impedance	4Ω
IP protection degree	44
Dimensions	ø250mm
Cable length	2,8m
Material	ABS
Colour	white
Weight	2,2Kg

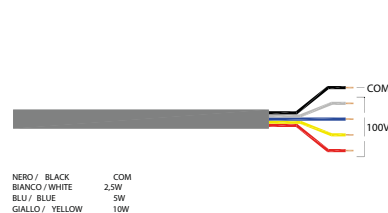
CONNECTION



CONNECTION



CONNECTION



NERO / BLACK COM
BIANCO / WHITE 2,5W
BLU / BLUE 5W
GIALLO / YELLOW 10W

10W SPHERICAL SPEAKER

CPS / T10

cod. 1900-322203



10W spherical speaker for excellent sound quality of voice announcements and background music in applications with high ceilings. ABS body with frontal painted metal grille, equipped with an adjustable junction bracket for easy and quick mounting.

TECHNICAL SPECIFICATIONS

Type	spherical, wall-mount
Operating voltage	100V-8 Ω
RMS power	10W
Intermediate power	10/5W
Transformer impedance	1/2K Ω
Frequency response	100 + 18000Hz
S.P.L. 1W@1m	85 +3dB
Speaker type	Full range 3"
Speaker impedance	8 Ω
IP protection degree	50
Dimensions	ø100/P180mm
Fixing	junction bracket
Material	ABS/steel
Colour	white
Weight	0,5Kg

10W PROJECTOR WALL SPEAKER

PS / T10

cod. 1900-271101



Unidirectional 10W speaker for excellent quality of voice announcements in applications that require high efficiency in the maximum emission direction. It reduces reverb due to reflection of back and lateral walls, floor and ceiling. ABS body with painted metal grille, provided with adjustable U-bracket for easy simple and quick wall mounting. Complete with line transformer with selectable power for better adjustment of sound level. Suitable for covered and outdoor installations.

TECHNICAL SPECIFICATIONS

Type	wall
Operating voltage	100V
RMS power	10W
Intermediate power	10/5/2,5W
Transformer impedance	1/2/4K Ω
Frequency response	130 + 15000Hz
S.P.L. 1W@1m	92 +3dB
Speaker type	5" full range
Speaker impedance	8 Ω
IP protection degree	65
Dimensions	ø137mm x 200mm
Fixing	U-bracket
Material	ABS
Colour	white
Weight	1,8Kg

20W WATERPROOF PROJECTOR WALL SPEAKER

PSS / T20

cod. 1900-171201



Unidirectional 20W speaker for excellent quality of voice announcements in applications that require high efficiency in the maximum emission direction. It reduces reverb due to reflection of back and lateral walls, floor and ceiling. Aluminium extruded body with painted metal grille, provided with adjustable U-bracket for easy simple and quick wall mounting. Complete with line transformer with selectable power for better adjustment of sound level. Suitable for covered and outdoor installations.

TECHNICAL SPECIFICATIONS

Type	wall
Operating voltage	100V
RMS power	20W
Intermediate power	10/5/2,5W
Transformer impedance	0,5/1/2/4K Ω
Frequency response	130 + 15000Hz
S.P.L. 1W@1m	107 +3dB
Speaker type	5" full range
Speaker impedance	8 Ω
IP protection degree	66
Dimensions	ø142mm x 207mm
Fixing	U-bracket
Material	aluminium
Colour	white
Weight	2,4Kg

10W COLUMN SPEAKER

CS2 / T10

cod. 1900-142101



10W line array wall speaker with excellent voice quality in applications with reverb problems (churches, conference rooms, etc.). Aluminium extruded body with painted metal grille, provided with adjustable brackets for easy and quick wall-mount. Complete with line transformer with selectable power for better adjustment of sound level.

TECHNICAL SPECIFICATIONS

Type	wall
Operating voltage	100V
RMS power	10W
Intermediate power	10/5W
Transformer impedance	1/2KΩ
Frequency response	170 + 15000Hz
S.P.L. 1W@1m	88 +3dB
Speaker type	2 x 2,5" full range
Speaker impedance	4Ω
IP protection degree	40
Dimensions	106x262x75mm
Fixing	no. 2 L-brackets
Material	aluminium
Colour	white
Weight	1,4Kg

CONNECTION



NERO / BLACK COM
VERDE / GREEN 2W
BIANCO / WHITE 10W

20W COLUMN SPEAKER

CS4 / T20

cod. 1900-144201



20W line array wall speaker with excellent voice quality in applications with reverb problems (churches, conference rooms, etc.). Aluminium extruded body with painted metal grille, provided with adjustable brackets for easy and quick wall-mount. Complete with line transformer with selectable power for better adjustment of sound level.

TECHNICAL SPECIFICATIONS

Type	wall
Operating voltage	100V
RMS power	20W
Intermediate power	20/10W
Transformer impedance	0,5/1KΩ
Frequency response	170 + 15000Hz
S.P.L. 1W@1m	91 +3dB
Speaker type	4 x 2,5" full range
Speaker impedance	4Ω
IP protection degree	40
Dimensions	106x405x75mm
Fixing	no. 2 L-brackets
Material	aluminium
Colour	white
Weight	2,0Kg

CONNECTION



NERO / BLACK COM
VERDE / GREEN 10W

30W COLUMN SPEAKER

CS6 / T30

cod. 1900-146301



30W line array wall speaker with excellent voice quality in applications with reverb problems (churches, conference rooms, etc.). Aluminium extruded body with painted metal grille, provided with adjustable brackets for easy and quick wall-mount. Complete with line transformer with selectable power for better adjustment of sound level.

TECHNICAL SPECIFICATIONS

Type	wall
Operating voltage	100V
RMS power	30W
Intermediate power	30/15W
Transformer impedance	0,333/0,666K Ω
Frequency response	170 + 15000Hz
S.P.L. 1W@1m	92 +3dB
Speaker type	6 x 2,5" full range
Speaker impedance	4 Ω
IP protection degree	40
Dimensions	106x548x75mm
Fixing	no. 2 L-brackets
Material	aluminium
Colour	white
Weight	2,8Kg

CONNECTION



NERO / BLACK
VERDE / GREEN

COM
15W

40W COLUMN SPEAKER

CS8 / T40

cod. 1900-148401



40W line array wall speaker with excellent voice quality in applications with reverb problems (churches, conference rooms, etc.). Aluminium extruded body with painted metal grille, provided with adjustable brackets for easy and quick wall-mount. Complete with line transformer with selectable power for better adjustment of sound level.

TECHNICAL SPECIFICATIONS

Type	wall
Operating voltage	100V
RMS power	40W
Intermediate power	40/20W
Transformer impedance	0,25/0,5K Ω
Frequency response	170 + 15000Hz
S.P.L. 1W@1m	93 +3dB
Speaker type	8 x 2,5" full range
Speaker impedance	4 Ω
IP protection degree	40
Dimensions	106x690x75mm
Fixing	no. 2 L-brackets
Material	aluminium
Colour	white
Weight	3,5Kg

CONNECTION



NERO / BLACK
VERDE / GREEN

COM
20W

30W HORN SPEAKER

DT24 / T30

cod. 1900-285303



20W HORN SPEAKER

DT20 / T20

cod. 1900-284203



10W HORN SPEAKER

DT14 / T10

cod. 1900-283103



30W, 20W, 10W horn speaker for excellent quality of voice announcements in applications that require high sound. ABS body, round shape, provided with adjustable U-bracket for easy wall mount. Complete with line transformer with selectable power for better adjustment of sound level.

TECHNICAL SPECIFICATIONS

Type	wall
Operating voltage	100V
RMS power	30W
Intermediate power	30/15/7.5/3.75W
Transformer impedance	0,333/0,666/1,333/2,666KΩ
Frequency response	330 + 8000Hz
S.P.L. 1W@1m	118dB
Speaker type	magnetodynamic unit
Speaker impedance	20Ω
IP protection degree	64
Dimensions	ø237mm x 290mm
Fixing	U-bracket
Material	ABS
Colour	grey
Weight	2,6Kg

TECHNICAL SPECIFICATIONS

Type	wall
Operating voltage	100V
RMS power	20W
Intermediate power	20/10/5/2.5W
Transformer impedance	0,5/1/2/4KΩ
Frequency response	250 + 8000Hz
S.P.L. 1W@1m	114dB
Speaker type	magnetodynamic unit
Speaker impedance	20Ω
IP protection degree	64
Dimensions	ø198mm x 258mm
Fixing	U-bracket
Material	ABS
Colour	grey
Weight	1,9Kg

TECHNICAL SPECIFICATIONS

Type	wall
Operating voltage	100V
RMS power	10W
Intermediate power	10/5/2,5W
Transformer impedance	1/2/4KΩ
Frequency response	400 + 8000Hz
S.P.L. 1W@1m	107dB
Speaker type	magnetodynamic unit
Speaker impedance	16Ω
IP protection degree	64
Dimensions	ø138mm x 207mm
Fixing	U-bracket
Material	ABS
Colour	grey
Weight	1,4Kg

30W HORN SPEAKER

DT4427 / T30

cod. 1900-286303



60W HORN SPEAKER

DT4427 / T60

cod. 1900-287603



Elegant 30W, 60W wall speaker for excellent quality of voice announcements and background music in applications that require high sound. ABS body, rectangular shape, provided with adjustable U-bracket for easy wall mount indoor and outdoor (IP65). Complete with line transformer with selectable power for better adjustment of sound level.

TECHNICAL SPECIFICATIONS

Type	wall
Operating voltage	100V
RMS power	30W
Intermediate power	30/20/10W
Transformer impedance	0,333/0,666/1,333/2,666K Ω
Frequency response	400 + 20000Hz
S.P.L. 1W@1m	110dB
Speaker type	magnetodynamic unit
Speaker impedance	8 Ω
IP protection degree	65
Dimensions	437x265x294
Fixing	U-bracket
Material	ABS
Colour	grey
Weight	5,6Kg

TECHNICAL SPECIFICATIONS

Type	wall
Operating voltage	100V
RMS power	60W
Intermediate power	60/30/15/7,5W
Transformer impedance	0,333/0,666/1,333/2,666K Ω
Frequency response	65 + 16500Hz
S.P.L. 1W@1m	114dB
Speaker type	magnetodynamic unit
Speaker impedance	8 Ω
IP protection degree	65
Dimensions	437x265x294
Fixing	U-bracket
Material	ABS
Colour	grey
Weight	5,8Kg

20W VIBRATION SPEAKER

DTV / T20

cod. 1900-200202



20W VIBRATION SPEAKER

DTV / T20SE

cod. 1900-400202



20W VIBRATION SPEAKER

DTV / P

cod. 4300-200202



AB+SOUND is a speaker which produces the sound by not adding visible devices to the environment. It can voice entire stiff surfaces of different materials, making them vibrate and turn them into great acoustic propagators for background music, sound messages, call systems and so on. Therefore, it will be possible to make false ceilings, walls, windows, furniture, kitchen counters, tables and boat walls sound; this will make the sound-broadcasting much more captivating and enjoyable, regardless where the listener is.

It is a true revolution of the sound-broadcasting concept; it offers many advantages, given by the solution versatility, its neatness and invisibility, the installation ease, the homogeneity and the acoustic quality. AB+SOUND is a great aesthetic solution because it replaces the traditional speakers. Moreover, it works according to the principle of the flat diaphragm, transforming every surface in a "loudspeaker cone". It is easy and quick to install because there is no need of holes, you just stick it to the involved surface. AB+SOUND is also "green", because it can serve bigger spaces compared to the traditional speakers, for equal sound-broadcasting, considerably decreasing the electricity consumption. Available in passive version (with or without waterproof shell), 100V version (for standard or EVAC systems) and with Bluetooth receiver/amplifier.

TECHNICAL SPECIFICATIONS

Operating voltage	100V
RMS power	20W
Transformer impedance	4 Ω
Technology	magnetodynamic
Dimensions	168x139x36mm
Connection	screw terminal
IP protection degree	55
Fixing	included 3M sticker / 3 screws
Operating temperature	0°C + 80°C
Material	PC/ABS
Weight	540g

TECHNICAL SPECIFICATIONS

Operating voltage	100V
RMS power	20W
Transformer impedance	4 Ω
Technology	magnetodynamic
Dimensions	168x139x36mm
Connection	double screw terminal
IP protection degree	55
Fixing	included 3M sticker / 3 screws
Operating temperature	0°C + 80°C
Material	PC/ABS
Weight	540g

TECHNICAL SPECIFICATIONS

RMS power	20W
Transformer impedance	4 Ω
Technology	magnetodynamic
Dimensions	168x139x36mm
Connection	screw terminal
IP protection degree	55
Fixing	included 3M sticker / 3 screws
Operating temperature	0°C + 80°C
Material	PC/ABS
Weight	200g

20W VIBRATION SPEAKER

DTV / BT20

cod. 1900-600202



20W VIBRATION SPEAKER

TRSD20W

cod. 4300-200203



AB+SOUND is a speaker which produces the sound by not adding visible devices to the environment. It can voice entire stiff surfaces of different materials, making them vibrate and turn them into great acoustic propagators for background music, sound messages, call systems and so on. Therefore, it will be possible to make false ceilings, walls, windows, furniture, kitchen counters, tables and boat walls sound; this will make the sound-broadcasting much more captivating and enjoyable, regardless where the listener is.

It is a true revolution of the sound-broadcasting concept; it offers many advantages, given by the solution versatility, its neatness and invisibility, the installation ease, the homogeneity and the acoustic quality. AB+SOUND is a great aesthetic solution because it replaces the traditional speakers. Moreover, it works according to the principle of the flat diaphragm, transforming every surface in a "loudspeaker cone". It is easy and quick to install because there is no need of holes, you just stick it to the involved surface. AB+SOUND is also "green", because it can serve bigger spaces compared to the traditional speakers, for equal sound-broadcasting, considerably decreasing the electricity consumption. Available in passive version (with or without waterproof shell), 100V version (for standard or EVAC systems) and with Bluetooth receiver/amplifier.

TECHNICAL SPECIFICATIONS

Operating voltage	12Vdc (power supply included)
RMS power	20W
Transformer impedance	4 Ω
Technology	magnetodynamic
Dimensions	168x139x36mm
Connection	Bluetooth
IP protection degree	55
Fixing	included 3M sticker / 3 screws
Operating temperature	0°C + 80°C
Material	PC/ABS
Weight	200g

TECHNICAL SPECIFICATIONS

RMS power	20W
Transformer impedance	4 Ω
Technology	magnetodynamic
Dimensions	168x139x36mm
Connection	screw terminal
Fixing	included 3M sticker / 3 screws
Operating temperature	0°C + 80°C
Material	ABS
Weight	200g

30W VOLUME CONTROL

RVI30

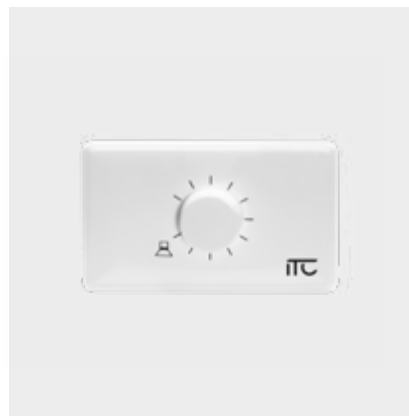
cod. 1600-211010



60W VOLUME CONTROL

RVI60

cod. 1600-211020



100W VOLUME CONTROL

RVI100

cod. 1600-211030



RVI volume controls series is made up of a control circuit with 11 positions switch (10 + off) and a transformer, in order to be used in 70-100V systems. It can be used to set the volume of one or more constant voltage speakers. Available in 3 versions: 30W, 60W or 100W. Thanks to the on board relay (enabled through a 24Vcc control), the volume control can be bypassed and forcibly brought to the maximum volume in case of priority announcements. Set for box 503 mounting.

TECHNICAL SPECIFICATIONS

Max. power	30W
Control mode	transformer
Input signal	70 + 100V
Output signal	0 + 100V
Speakers type	constant voltage
Frequency response	80 - 16KHz
Emergency relay	yes - enable with 24V
Steps	11
Material	plastic/metal
Mounting	box 503
Dimensions	115x70x55mm
Weight	0,24Kg
Accessories	vite M4x25mm x 2pz

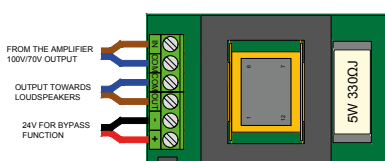
TECHNICAL SPECIFICATIONS

Max. power	60W
Control mode	transformer
Input signal	70 + 100V
Output signal	0 + 100V
Speakers type	constant voltage
Frequency response	80 - 16KHz
Emergency relay	yes - enable with 24V
Steps	11
Material	plastic/metal
Mounting	Scatola 503
Dimensions	115x70x55mm
Weight	0,26Kg
Accessories	vite M4x25mm x 2pz

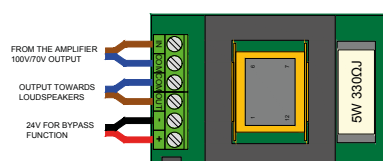
TECHNICAL SPECIFICATIONS

Max. power	100W
Control mode	transformer
Input signal	70 + 100V
Output signal	0 + 100V
Speakers type	constant voltage
Frequency response	80 - 16KHz
Emergency relay	yes - enable with 24V
Steps	11
Material	plastic/metal
Mounting	Scatola 503
Dimensions	115x70x55mm
Weight	0,30Kg
Accessories	vite M4x25mm x 2pz

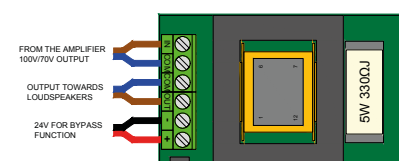
VOLUME CONTROLS DIAGRAM



VOLUME CONTROLS DIAGRAM



VOLUME CONTROLS DIAGRAM



80W VOLUME CONTROL

RVP80

cod. 1600-201010



Maximum applicable power: 80W. Adjustment with 10 steps, with OFF position and MAX volume position. Anti-shock ABS body suitable to wall installation.

6W LINE TRANSFORMER

TL6

cod. 1900-006010



Line transformer, necessary in order to adapt every 4/8Ω speaker to PA-100V systems. Powers: 6W, 3W, 1,5W.

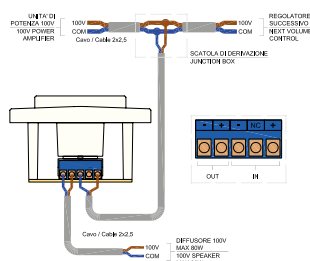
TECHNICAL SPECIFICATIONS

Attenuation steps in dB	3
Total attenuation in dB	30
Attenuation positions	11-OFF
Loss in dB	0,5
Colour	white
Material	ABS
Installation	wall-projection
Weight	0,5Kg
Dimensions	85x150x55mm

TECHNICAL SPECIFICATIONS

Output power	6W, 3W, 1,5W
For speakers	4Ω - 8Ω
Frequency response	120 - 18000Hz
Dimensions	75x40x40mm
Weight	0,1Kg

CONNECTION



10W LINE TRANSFORMER

TL10

cod. 1900-010010



Line transformer, necessary in order to adapt every $4/8\Omega$ speaker to PA-100V systems. Powers: 10W, 5W, 2,5W.

TECHNICAL SPECIFICATIONS

Output power	10W, 5W, 2,5W
For speakers	4 Ω - 8 Ω
Frequency response	120 + 18000Hz
Dimensions	75x40x43mm
Weight	0,2kg

30W LINE TRANSFORMER

TL30

cod. 1900-030010



Line transformer, necessary in order to adapt every $4/8\Omega$ speaker to PA-100V systems. Powers: 30W, 20W, 10W.

TECHNICAL SPECIFICATIONS

Output power	30W, 20W, 10W
For speakers	4 Ω - 8 Ω
Frequency response	120 + 18000Hz
Dimensions	75x40x50mm
Weight	0,3kg



Laudio

Stand-alone sound system for box 503 installation.

Appropriate to voice medium/small places in private residences, offices, small medical clinics and accommodation facilities. Easy to install and with high quality finishes, such as aluminium and tempered glass, suitable for any location type. The system is compatible with any brand 4/8ohm speaker.

WALL RECESSED STAND-ALONE SOUND MODULE



LAUDIO SM503AG

cod. 4200-000010



GRAY SATIN ALUMINIUM

LAUDIO SM503AN

cod. 4200-000020



BLACK SATIN ALUMINIUM

Stereo sound module, box 503 recessed. For plasterboard walls, consider installation on box Vimar V71703.

Particularly suited for voicing small/medium places like professional or medical offices, accommodation facilities, bars, restaurants, but also rooms in private residences. Available in 4 different and refined finishes: white glass, black glass, glazed light grey aluminium and glazed black aluminium. Very appreciated by architecture studios for its minimal appearance, adaptable to all types of locations, from the most luxurious to the most traditional.

The module is equipped with:

- FM radio with automatic research and memorization; media player on USB and SD card; Bluetooth receiver for mobile devices connection, which makes possible the listening of music files inside the mobile device or from apps like Youtube and Spotify;
- AUX input for external sources; MIC input for desktop microphones (art. BMCP/A); muting contact input;
- Stereophony audio output (power 10W + 10W) for passive speakers 4/8Ω and additional stereo audio output for active speakers. The module can also be set in monophony. In order to amplify any 4/8Ω speaker, it is necessary to add the related amplified card art. CA10D;
- Blue display, function buttons and IR remote controller.
- Supplied with frame and fixing screws.

LAUDIO SM503VB

cod. 4200-000030



WHITE GLASS

LAUDIO SM503VN

cod. 4200-000040



BLACK GLASS

TECHINCAL SPECIFICATIONS

FM band	87,5 + 108,0 MHz
Supported formats	WMA, MP3
Bluetooth	2.0
AUX input impedance	10 K Ω
MICRO input impedance	10 K Ω
Output impedance	4 + 8 Ω
Max power	10W
Power supply voltage	12 Vdc
Max absorption	1A
Material	glazed aluminium or tempered glass
Dimensions	127x95x48mm
Colour: white	white
Weight: 150g	150g

20W CEILING-MOUNT SPEAKER

DCP2017 / P

B cod. 4300-241201
N cod. 4300-241202
G cod. 4300-241203



Passive ceiling rectangular mount speaker, with rounded angles, for excellent playback quality of voice announcements and background music in applications that require high-fidelity sound. ABS body with painted metal grille, provided with rotary hooks for easy and quick installation in false ceilings. Alternatively, it can be wall mounted with the GEWISS PT5 box (not included). Available in: white, black and grey.

TECHNICAL SPECIFICATIONS

Type	recessed in false ceiling
RMS power	20W
Frequency response	120 + 18000Hz
S.P.L. 1W@1m	93dB
Speaker type	4" Bicone
Speaker impedance	4Ω
Dimensions	195x166x55mm
Hole dimensions	155x125mm
Material	ABS/steel
Colour	white, black, grey
Weight	0,9Kg

20W CEILING-MOUNT SPEAKER

DC20 / P

cod. 4300-120201



Passive ceiling rounded mount speaker for excellent playback quality of voice announcements and background music. Painted metal body and grille, provided with rotary hooks for easy and quick installation in false ceilings.

TECHNICAL SPECIFICATIONS

Type	recessed in false ceiling
RMS power	20W
Frequency response	110 + 15000Hz
S.P.L. 1W@1m	90 +3dB
Speaker type	5" full range
Speaker impedance	8Ω
Dimensions	ø 200mm x 50mm
Hole dimensions	ø 170mm
Material	steel
Colour	white
Weight	0,7Kg

20W CEILING-MOUNT SPEAKER

DC23 / P

cod. 4300-123201



Passive ceiling rounded mount speaker for excellent playback quality of voice announcements and background music in applications that require high-fidelity sound. Painted metal body and grille, provided with rotary hooks for easy and quick installation in false ceilings.

TECHNICAL SPECIFICATIONS

Type	recessed in false ceiling
RMS power	20W
Frequency response	90 + 18000Hz
S.P.L. 1W@1m	91 +3dB
Speaker type	6" full range
Speaker impedance	8Ω
Dimensions	ø230mm x 106mm
Hole dimensions	ø200mm
Material	steel
Colour	white
Weight	1,2Kg

20W WALL SPEAKER

DP2512 / P

B cod. 4300-251201
N cod. 4300-251202
G cod. 4300-251203



Passive wall-mount speaker for excellent playback quality of voice announcements and background music. Polycarbonate self-extinguishing body in class V2. Available in: white, black and grey. Two different versions: 6W and 10W.

TECHNICAL SPECIFICATIONS

Type	wall-projecting
RMS power	20W
Frequency response	120 + 18000Hz
S.P.L. 1W@1m	93dB
Speaker type	4" bicone
Speaker impedance	4Ω
Dimensions	250x120x73mm
Max. protrusion	73mm
Material	ABS
Colour	white, black, grey
Weight	0,9Kg

20W PROJECTOR WALL SPEAKER

PS / P

cod. 4300-271201



Passive unidirectional 20W speaker for excellent quality of voice announcements in applications that require high efficiency in the maximum emission direction. It reduces reverb due to reflection of back and lateral walls, floor and ceiling. ABS body with painted metal grille, provided with adjustable U-bracket for easy simple and quick wall mounting. Suitable for covered and outdoor installations.

TECHNICAL SPECIFICATIONS

Type	wall
RMS power	20W
Frequency response	130 + 15000Hz
S.P.L. 1W@1m	92 +3dB
Speaker type	5" full range
Speaker impedance	8Ω
IP protection degree	65
Dimensions	ø137mm x 200mm
Fixing	U-bracket
Material	ABS
Colour	white
Weight	1,6Kg

20W HORN SPEAKER

DT1812 / P

cod. 4300-281103



Passive 20W horn speaker for excellent quality of voice announcements in applications that require high efficiency. ABS body with painted metal grille, provided with adjustable U-bracket for easy simple and quick wall mounting. Suitable for covered and outdoor installations.

TECHNICAL SPECIFICATIONS

Type	wall
RMS power	20W
Frequency response	400 + 20000Hz
S.P.L. 1W@1m	106dB
Speaker type	magnodynamic unit
Speaker impedance	20Ω
IP protection degree	64
Dimensions	180x116x232mm
Fixing	U-bracket
Material	ABS
Colour	grey
Weight	1,8Kg

PREAMPLIFIED MICROPHONE DESKTOP UNIT

BMCP / A

cod. 3200-221010



Pre-amplified desktop microphone provided with gooseneck microphone, cardioid electret, and a bright ferrule; indicated for voice announcements, in combination with LAUDIO or to the power supply A20/5 or AD20/5. Provided with both a dual-toggle switch and a priority contact for attenuating other sound sources and generating a chime tone. Two led lights indicate the related active button. Directly powered by the same amplifier to which it is connected. Body in aluminium, with sides in ABS and stand pins included. Complete with 5m-long CAT5 connection cable.

TECHNICAL SPECIFICATIONS

Output impedance	10K Ω
Output level	3Vpp
Frequency response	100-15000Hz
Power supply	12Vdc
Absorption	50mA
Microphone type	electret - 500mm pole
Dimensions	206x550x130mm
Material	plastic/metal
Colour	black/grey
Weight	1,4Kg

10W AMPLIFYING MODULE

CA10D

cod. 3400-011010



Module to pair with all 4/8 Ω speakers, in addition to the couple of speakers connected to LAUDIO (art. SM503xx). Complete with a trimmer for a better sound setting. Provided for junction box slot or fixed on the speaker body.

TECHNICAL SPECIFICATIONS

Input impedance	10K Ω
Input sensitivity	400mV
Output impedance	4 + 8 Ω
Frequency response	50-20000Hz
Power supply	12 Vdc
Absorption	200mA

FRONTALINES VOLUME CONTROL

RVIC

cod. 3300-331000

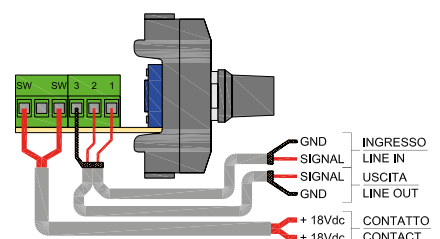


* Civil series → p. 105



It is necessary when you want to control the volume in a single zone/room, separated from the others. Provided with triple screw terminal, it inserts between signal distribution line and the speakers of a given zone. It is also provided with a switch which opens when the volume control is rotated until zero. The switch, with separated terminals, can be used to stop the power to the amplified speakers when the volume is zero. It occupies 1 unit in civil series.

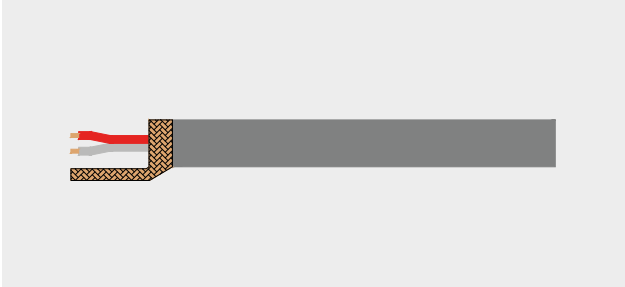
CONNECTION



MICROPHONE CABLE

C2022

cod. 1600-023100

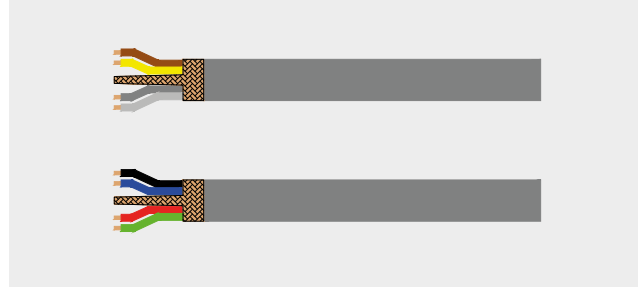


2x0.22 microphone cable + screen, available in 100m reel.

MICROPHONE CABLE

C4025

cod. 1600-041100

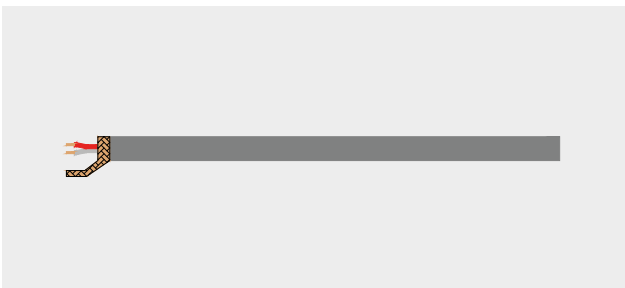


4x0.25 microphone cable + screen, available in 100m reel.

MICROPHONE CABLE

C2008

cod. 1600-021100

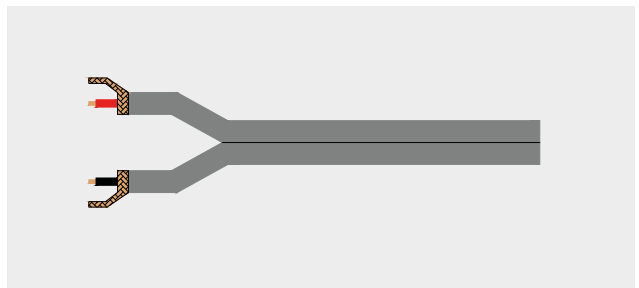


2x0.08 microphone cable + screen, available in 100m reel.


MICROPHONE CABLE

C2014

cod. 1600-022100



2x (1x0.14 + screen) microphone cable + screen, available in 100m reel.



Rack cabinets and accessories

A series of rack cabinets of various dimensions for grouping and **connection** of many **audio devices**, therefore for their **better management**.

RACK CABINET

FRONT DOOR WITH LOCK

BACK PANEL LOCK



Metal sheet structure, complete with flange bottom for cable passage; lid and sides with openings for ventilation. 19" internal frame (482,6 mm), loadable up to 500kg. Electrical ground on bottom and sides. IP protection degree IP30. Complete with 4 rubber feet, adjustable in height. Finishing: RAL7035.

Transparent front door in tempered plate glass, with printed metal sheet frame and reversible lock right/left. Complete with key lock.

Back metal sheet panel. It fixes to the cabinet with screws and cage nuts.

AR12 - 12 UNITS

cod. 1200-101120

600 x 593 x 600 mm

AR20 - 20 UNITS

cod. 1200-101200

600 x 949 x 600 mm

AR24 - 24 UNITS

cod. 1200-101240

600 x 1126 x 600 mm

AR30 - 30 UNITS

cod. 1200-101300

600 x 1393 x 600 mm

AR36 - 36 UNITS

cod. 1200-101360

600 x 1670 x 600 mm

AR42 - 42 UNITS

cod. 1200-101420

600 x 1947 x 600 mm

PAR12 - 12 UNITS

cod. 1200-121120

PAR20 - 20 UNITS

cod. 1200-121200

PAR24 - 24 UNITS

cod. 1200-121240

PAR30 - 30 UNITS

cod. 1200-121300

PAR36 - 36 UNITS

cod. 1200-121360

PAR42 - 42 UNITS

cod. 1200-121420

PCP12 - 12 UNITS

cod. 1200-131120

PCP20 - 20 UNITS

cod. 1200-131200

PCP24 - 24 UNITS

cod. 1200-131240

PCP30 - 30 UNITS

cod. 1200-131300

PCP36 - 36 UNITS

cod. 1200-131360

PCP42 - 42 UNITS

cod. 1200-131420

SET OF FEET

KP

cod. 1200-111010



Set of 4 feet with rubber base - adjustable height.

SET OF WHEELS

KR

cod. 1200-112010



Set of 4 revolving wheels, ø 60 mm, for loads up to 50 Kg. each.

BASE

KZ

cod. 1200-113010



Set of 4 height bases with plastic supports and closing panels.

DRAWER

CS2

cod. 1200-181020



Rack drawer with key. Size: 2 units.

DEVICES SUPPORT SHELF

PS1

cod. 1200-171010



Sliding support shelf. Size: 1 unit.

POWER SOCKET

TPA6

cod. 1200-144010



Power socket unit for the power supply of the devices inside the rack cabinet. Complete with 6 sockets (max 3KVA).

AIR-COOLING PANEL

PFA1

cod. 1200-152010



Air-cooling panel among devices. Size: 1 unit.

PANEL FOR WIRES

PFP1

cod. 1200-153010



Through panel for wires. Size: 1 unit.

FRONT LOCK PANEL



Blind panel for rack cabinet front lock.

DEVICES SHELF



Metal shelf for installation of devices not designed for rack mounting.

DEVICES SUPPORT KIT



Support kit for rack mount of any amplifier model or other heavy devices.

PFC1 - 1 UNIT

cod. 1200-101120

PFC2 - 2 UNITS

cod. 1200-151020

PFC3 - 3 UNITS

cod. 1200-151030

PFC4 - 4 UNITS

cod. 1200-151040

PA1 - 1 UNITS

cod. 1200-161010

PA2 - 2 UNITS

cod. 1200-161020

PA3 - 3 UNITS

cod. 1200-161030

KSA

cod. 1200-211010

HEADER CABLES EXAMPLES



Shielded 2 wire AWG24
microphone cable

DIN F 5P BAL
XLR M 3P BAL



Shielded 2 wire AWG24
microphone cable

DIN F 5P BAL
JACK TRS 6,3 MN BAL



Shielded 2 wire AWG24
microphone cable

DIN F 5P UNBAL
JACK TS 6,3 MN UNBAL



PIN 1 = MASSA / GND
 PIN 2 = CALDO / HOT
 PIN 3 = FREDDO / COLD

PIN 1 = MASSA / GND
 PIN 2 = CALDO / HOT
 PIN 3 = FREDDO / COLD

Shielded 2 wire AWG24
microphone cable

XLR F 3P BAL
XLR M 3P BAL

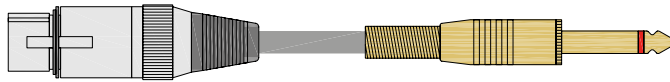


PIN 1 = MASSA / GND
 PIN 2 = CALDO / HOT
 PIN 3 = FREDDO / COLD

TIP = CALDO / HOT
 RING = FREDDO / COLD
 SLEEVE = MASSA / GND

Shielded 2 wire AWG24
microphone cable

XLR F 3P BAL
JACK TRS 6,3 MN BAL



PIN 1 = MASSA / GND
 PIN 2 = CALDO / HOT
 PIN 3 = MASSA / GND

TIP = CALDO / HOT
 SLEEVE = MASSA / GND

Shielded 2 wire AWG24
microphone cable

XLR F 3P UNBAL
JACK TRS 6,3 MN UNBAL



TIP = CALDO / HOT
 RING = FREDDO / COLD
 SLEEVE = MASSA / GND

TIP = CALDO / HOT
 RING = FREDDO / COLD
 SLEEVE = MASSA / GND

Shielded 2 wire AWG24
microphone cable

JACK TRS 6,3 MN BAL
JACK TRS 6,3 MN BAL

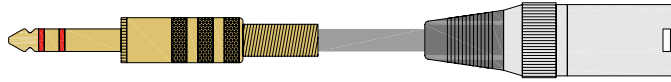


TIP = CALDO / HOT
 SLEEVE = MASSA / GND

TIP = CALDO / HOT
 SLEEVE = MASSA / GND

Shielded 2 wire AWG24
microphone cable

JACK TRS 6,3 MN UNBAL
JACK TRS 6,3 MN UNBAL

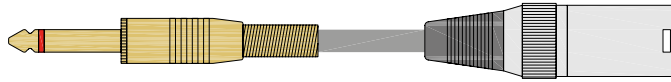


TIP = CALDO / HOT
RING = FREDDO / COLD
SLEEVE = MASSA / GND

PIN 1 = MASSA / GND
PIN 2 = CALDO / HOT
PIN 3 = FREDDO / COLD

Shielded 2 wire AWG24
microphone cable

JACK TRS 6,3 MN BAL
XLR M 3P BAL



TIP = CALDO / HOT
SLEEVE = MASSA / GND

PIN 1 = MASSA / GND
PIN 2 = CALDO / HOT
PIN 3 = MASSA / GND

Shielded 2 wire AWG24
microphone cable

JACK TS 6,3 MN UNBAL
XLR M 3P UNBAL



PIN 1 = FREDDO / COLD
PIN 2 = MASSA / GND
PIN 3 = CALDO / HOT
PIN 4 = +24VDC
PIN 5 = PRIORITA' / PRIORITY

PIN 1 = FREDDO / COLD
PIN 2 = MASSA / GND
PIN 3 = CALDO / HOT
PIN 4 = +24VDC
PIN 5 = PRIORITA' / PRIORITY

Shielded 4 wire AWG23
microphone cable

DIN M 5P BAL
DIN M 5P BAL



PIN 1 = FREDDO / COLD
PIN 2 = MASSA / GND
PIN 3 = CALDO / HOT
PIN 4 = +24VDC
PIN 5 = PRIORITA' / PRIORITY

PIN 1 = FREDDO / COLD
PIN 2 = MASSA / GND
PIN 3 = CALDO / HOT
PIN 4 = +24VDC
PIN 5 = PRIORITA' / PRIORITY

Shielded 4 wire AWG23
microphone cable

DIN F 5P BAL
DIN M 5P BAL

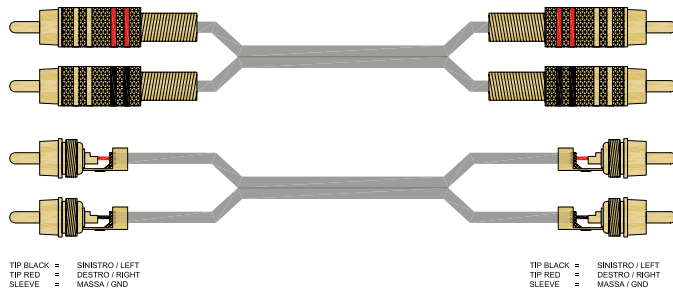


TIP = SINISTRO / LEFT
RING = DESTRO / RIGHT
SLEEVE = MASSA / GND

TIP = SINISTRO / LEFT
RING = DESTRO / RIGHT
SLEEVE = MASSA / GND

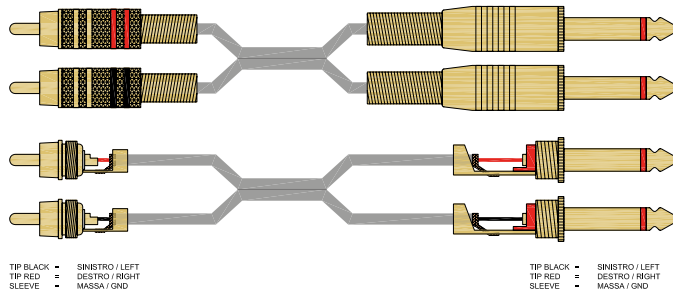
Shielded 2 wire AWG24
microphone cable

JACK TRS 6,3 MN UNBAL
JACK TRS 6,3 ST UNBAL



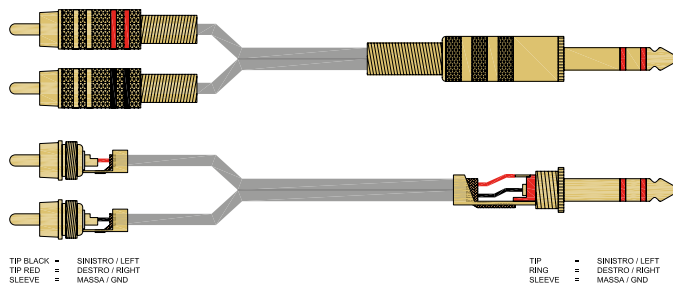
Shielded 2 wire AWG26
microphone cable

2 X RCA ST UNBAL
2 X RCA ST UNBAL



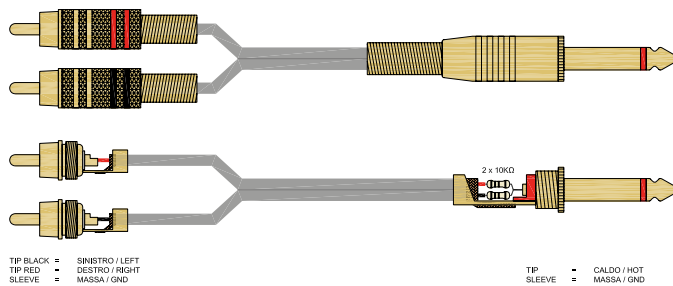
Shielded 2 wire AWG26
microphone cable

2 X RCA ST UNBAL
2 X JACK TS 6,3 ST UNBAL



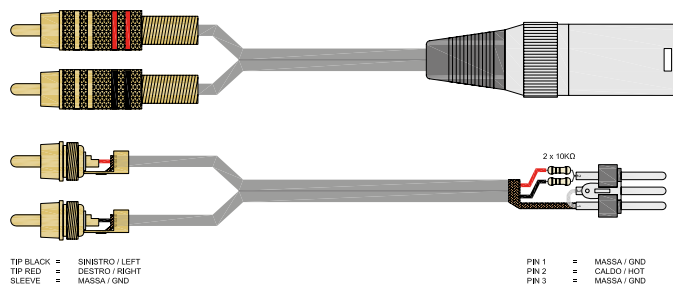
Shielded 2 wire AWG26
microphone cable

2 X RCA ST UNBAL
JACK TRS 6,3 ST UNBAL



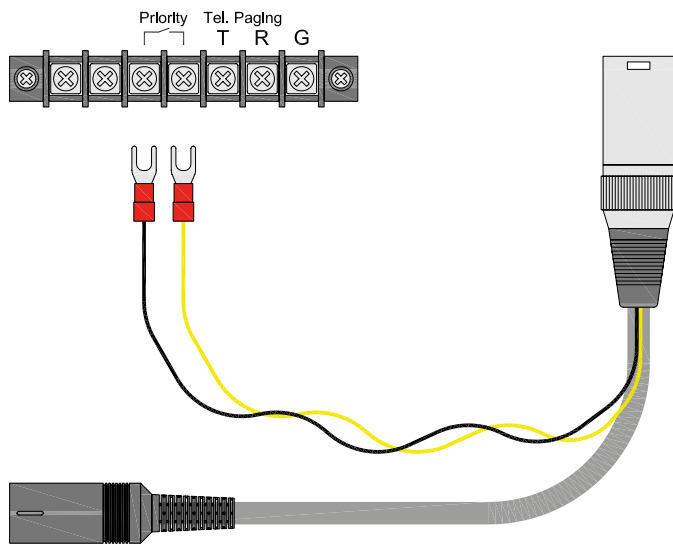
Shielded 2 wire AWG26
microphone cable

2 X RCA ST UNBAL
JACK TS MIX 10K MN UNBAL



Shielded 2 wire AWG26
 microphone cable

2 X RCA ST UNBAL
XLR M 3P MIX 10K UNBAL



Shielded 4 wire AWG23
 microphone cable

DIN F 5P BAL
XLR M 3P BAL



Shielded 4 wire AWG23
 microphone cable

DIN F 5P BAL
XLR M 3P BAL + PRIORITY



Special installations

Multimedia audio and video systems: beyond the product, with design and support.

I.T.C. boasts a great experience in special/multimedia installations. I.T.C. can design and/or give support for the creation of these types of installations. This is possible thanks to audio-video experts and to partnerships with the biggest brands of the audio, video and digital signage, IT and control world. In addition to the devices in this catalogue we integrate, based on the necessities: projectors, motorized screens, monitors, audio/video masters, system controls, high fidelity speakers and weather-proof speakers by going to select professional products and with modern technologies such as Dante, IP, KNX, etc.

All this in order to provide complete solutions for audio and video reproduction and management in various commitments: conference rooms, auditoriums, multimedia rooms, churches.



Icons legend



EN 54-16 CERTIFIED



EN 54-24 CERTIFIED



EN 54-4 CERTIFIED



SUITABLE FOR 19" RACK CABINET



BLUETOOTH



SUITABLE FOR DIN RAIL



CUSTOMIZABLE COLOUR



CUSTOMIZABLE LOOK



ETHERNET WIRING



EASY INSTALLATION



PRODUCT FOR BOX 503



WATERPROOF

Civil Series

PRODUCTS

RVIC 3300-331000

CIVIL SERIES AVAILABILITY

			AVAILABILITY
AVE	Blanc	white	●
	Noir AX	black	●
	Banquise	white	○
	Domus 100	white	●
	RAL	white	○
	LIFE 44	black	○
TICINO	Living Intern.	black	●
	Light	white	●
	Luna	white	○
	Ligh-Tech	silver	●
	Matix	white	●
	Axolute	white	●
GEWISS	Axolute	black	●
	Playbus	white	●
	Playbus	black	●
	Chorus	white	●
	Chorus	silver	●
	Chorus	black	●
	System 9000	white	○
System 9000	black	○	
LEGRAND	Cross	white	○
	Vela	black	○
SIEMENS	Delta Futura	white	●
	Delta Futura	black	●
VIMAR	8000	white	○
	Idea	white	●
	Idea	black	●
	Plana	white	●
	Eikon	silver	●
	Eikon	black	○
	Eikon	white	○
Plana	grey	○	

● immediately available

○ available on request

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The information contained in this publication, both in the parts of the descriptive text and in the descriptive tables the technical characteristics have been carefully evaluated and checked. ITC S.r.l. however, it assumes no responsibility for any inaccuracies, inaccuracies and typographical errors. ITC S.r.l. moreover, it reserves the right to make any changes to its products without notice.

Editorial

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GO TO THE VIDEO

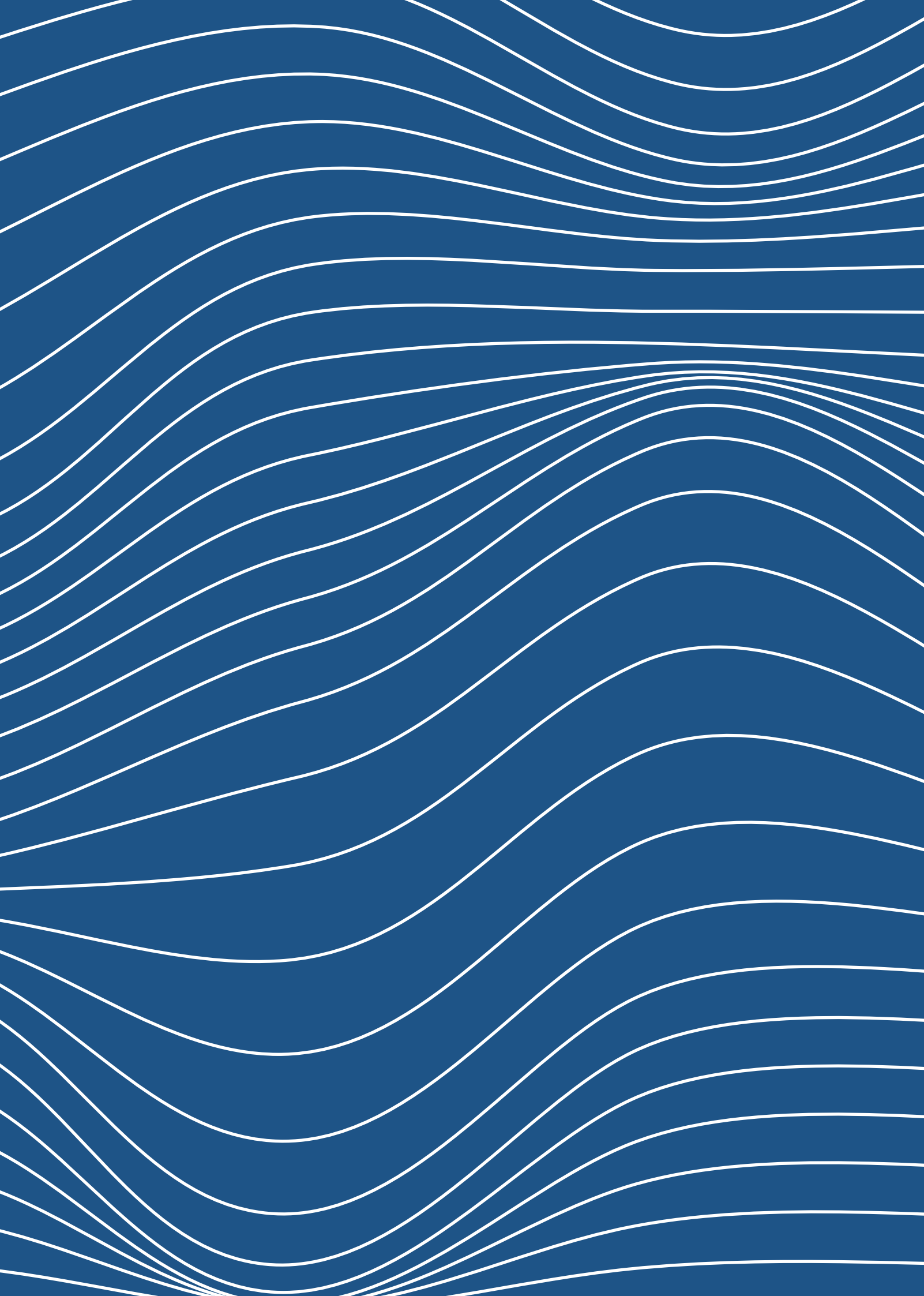


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