



MAJORCOM:

A story, a know-how

MAJORCOM, **founded 50 years ago** and based in Toulouse, is **the leading French company** and a major European player in the field of professional sound systems, public address and voice alarm..

MAJORCOM was the **first specialized company** specializing in Voice Alarm systems **to be certified in France**. Through being at the forefront of the development of the most advanced technologies, MAJORCOM is committed to always providing products of the latest generation.

MAJORCOM mastery of production offers you the manufacturer's warranty on Public Address products and guarantees the compliance of its security systems with European EN 54 and International ISO standards.

A team, an expertise

MAJORCOM places customer service at the heart of its business model thanks to its dedicated business team.

Our systems are custom-designed by our engineering department which is staffed with acousticians and electronic engineers, with the expert support of our R&D department, and an after-sales department with highly involved support functions.



To our partners, we offer systems that are truly adapted to the reality of their technical needs and to the needs of the end users.

Values that stand the test of time



TO LISTEN AND WORK CLOSELY WITH OUR CUSTOMERS: we devote our full attention and expertise to **informing, securing and offering an outstanding customer experience**.



A FOCUS ON QUALITY: optimize your profitability rate thanks to reliable systems supervised by our quality department (Customer service < 0.3%).



A CULTURE OF INNOVATION: our systems feature every innovation that enhances technical, energetic and connectivity performances.



EXPERTISE: our engineering relies on innovative technical resources, on the **adaptability of our** teams and their unconditional dedication to your projects to fully satisfy your every need.

MAJORCOM:

A wide range of products and services

MAJORCOM provides expert advice, studies, estimates, editing, commissioning, maintenance and VAS quickly and efficiently on a selection of products from:



PUBLIC ADDRESS & IP SYSTEMS

- Sources & microphones
- Mixers
- Amplifiers
- Audio over IP
- LoudpeakersPPMS, POI, PPI
- Conference system
- Induction loops...



PROFESSIONAL SOUND SYNSTEMS

- Line Array
- Loudspeakers
- Source
- Processors
- Amplifiers
- Mixers
- Accessories...



VOICE ALARM SYSTEMS

- EN54-16 Systems
- Batteries & EN54-4 Chargers
- EN54 Accessories
- EN54-24 Speakers

Our references

MAJORCOM has built its notoriety on the success of thousands of completed projects.

+ 50,000

On-site installations

M:

+ 30,000

End customers

+ 1,000 Loval installers + 100

Engineering consulting partners

Information at your disposal

To accompany you in the success of your projects.



TECHNICAL DOCUMENTATION: check out our data sheets, application samples, videos and catalogues on our website: www.majorcom.fr



WEBSITE: learn more about our services and products, accessible through any device, on our website: **www.majorcom.fr**



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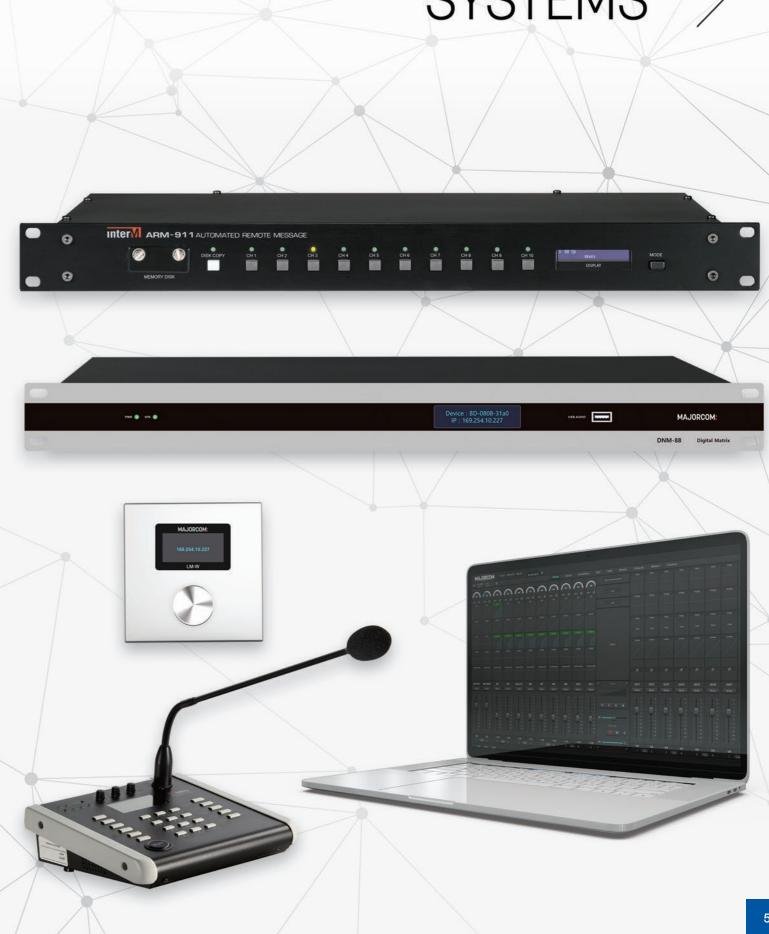
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PUBLIC ADDRESS SYSTEMS



INTERVI NCS-1000 NETWORK SERVER INTERM NC-MO1 NETWORK CONVERTER Inter NC-SO1 NETWORK CONVERTER We have developed a network converter system according to the demand of market to control in integrated way independent broadcasting systems distributed to wide regions by linking each other. There are many difficulties in costs, efficiency, and time aspects to change all of established existing equipment and to introduce a new system. The new network system can link or extend other total products as well as Inter-M equipment including already installed 6000 system, NPX system, and ARM-911A, and can control each region in inte-In addition, it provides easy wiring and installation with the operation of system based not on line method of wiring but on TCP/IP network, and can control the whole system in convenient and integrated way through a control program based on web control method.

Introduction of Network Converters

A network converter system is a system expandable over 512 zones based on 48 sources (24 tone generating devices / 24 remote microphones) input and 24 buses output. This system enables to link each other in independent space and many places and to control in wide and integrated method.

In addition, when it is needed to extend to additional equipment, it can extend simply even in any place where the network is connected.

The network converter system enables the output to various zones with only one amplifier and can diversify by zone using one amplifier to one zone. It can be installed with a simple hardware installation and its detailed setting is completed with the software.

User can build network-based integrated systems by adding network converters to existing analog devices.

User can configure optimized system for various environment of requirement when expanding and integrating a broadcasting system.



Model	Description	Remark		
NCS-1000	Network Control Server	Main Network Management Server		
NC-600	6000 1BUS/8BUS Network Converter	6000 1/8 BUS Converter		
NC-S01	Source Network Converter	Source Converter (CD Player, Tuner, etc.)		
NC-M01	Remote MIC Network Converter	Remote MIC Converter		
MS-N300	Network Control Software	Main Network Management Program		

NCS S

NCS System

NCS System

Intuitive Interface

It provides familiar and accustomed user environment through similar GUI with MS-6800, a software of existing 6000 system.

You can monitor all equipment connected to the network and can control a variety of broadcasting regions equipments via intuitive interface.

Menu - Equipment Monitoring

You can check and control the status of equipment via equipment monitoring menu.



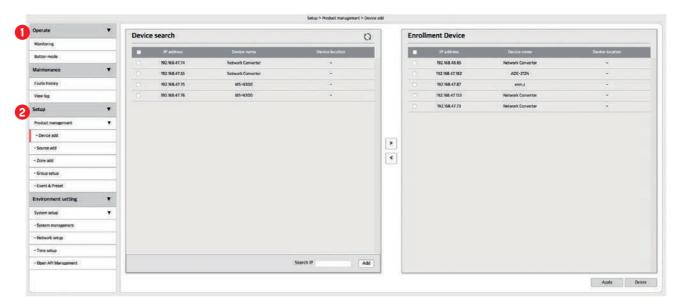
Menu - Button Mode

Under button mode, you can select the tone generator via registered source equipment to send by each group and region. You can adjust the tone generator and control the contact.

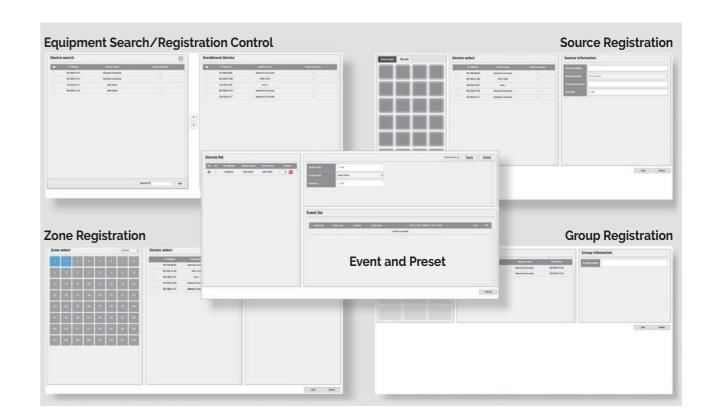


GUI Optimal to Environment

It provides [Setting Menu] for providing GUI optimized to environment and provides [Operating Menu] for operating the actual broadcasting when installing the broadcasting system.



- 1 You can select the source of zone and can control the broadcasting from operating menu.
- 2 You can search the equipment via network to register or can configure & group the zone in the broadcasting region from setting menu.



PUBLIC ADDRESS

NCS System components

NCS-1000



Main Network Management Server

- NCS-1000 is a server to control all equipment connected with the network as a hardware equipment for integrated network control.
- · Controls all sound & video equipment connected to network in integrated method.
- Equipment control connected to the network.
- · Applies a standard network protocol.
- · Supports DHCP, STATIC IP (Default setting: STATIC IP, 192.168.1.99).
- · Supports network redundancy.
- Provides web-based integrated control software (MS-N300).

Model	NCS-1000
Network Communication	10/100/1000 Base-T (RJ-45)
Operating Temperature	0°C ~ +40°C
Power Source	120-240V, 50/60Hz, 10W, DC 24V, 350mA
Dimensions (WxHxD)	482 x 44 x 280mm
Weight	3kg

Front panel



3 Display mode switch

4 Power LED

Rear panel



- AC inlet
- 2 AC power switch
- 3 DC power connection terminal
- 4 Network (secondary) connection terminal
- 5 Network (primary) connection terminal

6 Factory reset switch

NC-600



6000 1/8 BUS System Converter

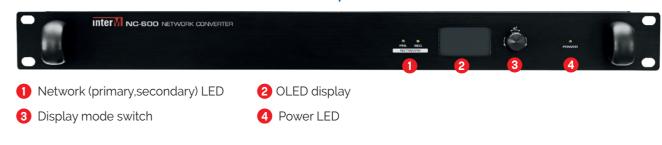
- · NC-600 is an equipment to send audio, contact, and data signal to network for integrated network control of 6000 1/8 Bus system.
- PX-6216/ECS-6216P RM Interface via network.
- · Contact terminal interface of ECS-6216MS via network.
- Sends/receives Audio (MP3, PCM, RTSP) via network.

PUBLIC ADDRESS

- · Supports DHCP, STATIC IP (Default setting: STATIC IP, 192.168.1.99).
- · Supports network redundancy.

Model			NC-600	
Audio Input Audio Output			1 Channel	
			1 Channel	
	Input Sensitivit	у	odBV	
AUDI0	Frequency Resp	onse	20Hz ~ 20kHz	
	THD+N ratio (20kHz LPF, OdBV, 1kHz)		< 0.1%	
S	S/N (20kHz LPF,	OdBV, 1kHz)	> 80dB	
	Sampling Frequency		44.1, 48kHz	
Contact Clo	sure	Contact Closure Output	16 Channel	
Communico	stion	Serial Communication	RS-422	
Committee	ILIOII		10/100/1000 Base-T (RJ-45)	
Operating T	emperature		0°C ~ +40°C	
Power Source			DC 24V, 550mA	
Dimensions (WxHxD)			482 x 44 x 280mm	
Weight			2.9kg	

Front panel



Rear panel



- 1 DC adapter connection terminal
- Contact closure output terminal
- 3 PX-6216 / ECS-6216P connection terminal
- 4 Audio input terminal
- 5 Audio output terminal

- 6 Network (secondary) connection terminal
- 7 Network (primary) connection terminal

8 Factory reset switch

NC-S01



Source Device Converter

- NC-S01 is an equipment to control source equipment like CD player and Tuner with network in integrated way.
- RS-232C control via network (remote control of source equipment, CD-6208).
- · Audio (MP3, PCM, RTSP) sending via network.
- · Supports DHCP, STATIC IP (Default setting: STATIC IP, 192.168.1.99).
- Supports network redundancy.
- 1U Half Rack Size.

Model			NC-S01	
Audio Input			1 Channel	
	Input Sensitivity	, CD INPUT	6 ±3dBV	
	input sensitivity	RM-6024	o ±3dBV	
AUDI0	Frequency Resp	onse	20Hz ~ 20kHz	
	THD+N ratio (20	kHz LPF, OdBV, 1kHz)	< 0.1%	
Si	S/N (20kHz LPF, OdBV, 1kHz)		>80dB	
	Sampling Freque	ency	44.1, 48kHz	
Communicat	ion.	Serial Communication	RS-232, RS-422	
Commonicat	1011	Network Communication	10/100/1000 Base-T (RJ-45)	
Operating Te	Operating Temperature		0°C ~ +40°C	
Power Source			Input: DC 24V, 800mA // Output: DC 24V, 500mA	
Dimensions (WxHxD)			210 x 44 x 180mm	
Weight		1kg		

Front panel



Rear panel



- DC adapter connection terminal
- 2 DC input power connection terminal
- 3DC output power connection terminal
- 4 Audio input terminal
- 6 RS-232 connection terminal
- 1 Network (secondary) connection Terminal
- 8 Network (primary) connection Terminal
- 9 Factory reset switch

NC-M01



Remote MIC Converter

- NC-Mo1 is an equipment to send audio, contact, and data signal to network for integrated network control of remote MIC such as RM-6016.
- · Contact interface of RM-6016 via network.
- · Audio (MP3, PCM, RTSP) sending via network.
- · Supports DHCP, STATIC IP (Default setting: STATIC IP, 192.168.1.99).

PUBLIC ADDRESS

- Supports network redundancy.
- 1U Half Rack Size.

Model			NC-M01	
	Audio Input		1 Channel	
Input Sensitivity		itivity	odBV	
AUDIO	Frequency	Response	20Hz ~ 20kHz	
AUDIU	THD+N rati	o (20kHz LPF, OdBV, 1kHz)	< 0.1%	
	S/N (20kHz LPF, OdBV, 1kHz)		> 80dB	
	Sampling F	requency	44.1, 48kHz	
Contact Clos	sure	Contact Closure Output (NC-M01)	16 Channel	
Communicat	ion	Network Communication	10/100/1000 Base-T (RJ-45)	
Operating Te	mperature		0°C ~ +40°C	
Power Source			Input: DC 24V, 800mA // Output: DC 24V, 500mA	
Dimensions (WxHxD)			210 x 44 x 180mm	
Weight	Weight		1kg	

Front panel



Rear panel



- DC adapter connection terminal
- 2 DC input power connection terminal
- 3 DC output power connection terminal
- 4 Contact closure input terminal

- **5** Audio input terminal
- 6 Network (secondary) connection Terminal

- Network (primary) connection terminal
- 8 Factory reset switch

5 RM-6024 connection terminal

NCS System components

NCS System components

PM-N108

Remote PA Monitor



- PM-N108 is a system audio monitoring equipment via network when long distance network PA or mass PA system is configured..
- ETHERNET Gigabit 100/1000Mbps.
- · Receiving audio source by network...
- · Monitoring of 8 line channel audio inputs.
- Monitoring of 8 100V amplifier channels.

- · Boundless expansion by network.
- · Web-based setting.
- The equipment can check power amplifier output and status of line level audio via PC or mobile devices..
- Also, status of total system can be monitored in real time.

Model		PM-N108	
	Audio Input Channel	8CH	
	Audio Input Level	odBV (1Vrms)	
	Frequency Response (OdBV)	20Hz ~ 20kHz	
AUDIO	THD+N Ratio (20Hz HPF, 20kHz LPF, OdBV, 1kHz)	Less than 0.1%	
AUDIU	S/N (20Hz HPF, 20kHz LPF, 0dBV, 1kHz)	More than 80dB	
	100V Amplifier Input Channel	8CH	
	Amplifier Input Level	40dBV (100Vrms)	
	THD+N Ratio (20Hz HPF, 20kHz LPF, 40dBV, 1kHz)	Less than 1%	
Network C	ommunication	100/1000 Base-T	
Operating 1	Temperature	0°C ~ 40°C	
Power Source		24 V DC, 300mA	
Dimension	s (WxHxD)	482 x 44 x 280mm	
Weight		3,04kg	



Rear panel

PN-106 / PN-112 / PN-236 / PN-260

Amps-preamps



- The PN Series amplifiers are amps-preamps that allow audio streams to be received remotely over the IP network.
- They can be deployed in various locations without constraint of cables and are controlled remotely via the NCS system
- (management of priorities of audio inputs, volume control, audio file management...).
- They are ideal for schools, industrial buildings, chain of stores...

Model			PN-106	PN-112	PN-236	PN-260		
Nominal power RMS			60W	120W	360W	600W		
Bandwidth (1W, 0±3dB)		80 to 15,000Hz					
THD @ 1kHz				<1%				
S/B (A-WTD) @1kHz	LINE / Aud	dio		70	odB			
S/B (A-WID) @IKHZ	MIC			55	5dB			
	Input 1	MIC		-60dBV / 2l	«Ω (Balanced)			
Input sensitivity	Innut 2	LINE		odBV / 24kΩ	(Unbalanced))			
/ Impedance	Input 2	MIC	-60dBV / 2kΩ (Balanced)					
	Network	Audio	-2.2dBV					
			100V / 166Ω	100V / 84Ω	100V /27.7Ω	100V /16.6Ω		
Output Impedance			70V / 82Ω	70V / 41Ω	70V/ 13.6Ω	70V / 8.1Ω		
			22V / 8Ω	22V / 4Ω	38V / 4Ω	49V / 4Ω		
Network communication	on		100/1000 base-T (RJ-45)					
Operating Temperature)		-10°C ~ +40°C					
Power source			120-240V A	C, 50/60Hz	220-240V AC, 50/60Hz	120-240V AC, 50/60Hz		
Consumption			55	;W	110W	150W		
Dimensions (WxHxD)			420 x 44	x 320mm	420 x 88 x 320mm			
Weight			4,49	9kg	5,02kg	5,23kg		
Accessorie (optional)			Rack mount brackets BKT-DSA100D-F		Rack mount brackets BKT-A120			



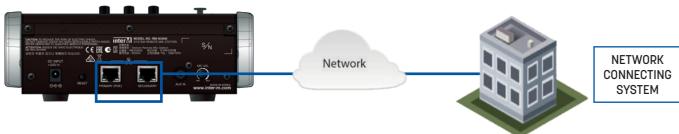
RM-N3000

- RM-N3000 is a network only remote MIC station for paging broadcasting to each zone which can network broadcasting by select AOE / VoIP / AVB protocol.
- In addition, users can easily set options, select zone and broadcast with high resolution OLED, 10-KEY button on the front panel.
- · MIC/external input (AUX) selectable broadcast
- · Automatic chime broadcasting
- Configurable 5 Preset buttons
- Output LEVEL METER LED
- · Audio output via built-in speaker
- DC 24V (adapter available)
- Supporting VoIP / AVB / AOE streaming
- Supporting 100 / 1000Mbps
- · Supporting DHCP, STATIC IP
- Supporting network bonding (AOE)





• Even if the first network fails, stable broadcasting is possible to the second network due to network redundancy.











- · STATIC/DHCP/ZEROCONFIG
- 100/1000 Network
- Support network **bonding** (AOE TCP MODE)

Teaming or **bonding** of network interfaces a server is used to combine 2 network interfaces in one virtual network interface. The network interface thus obtained can be configured as a normal network card.

One of the advantages is that in case of failure of a network card, the virtual interface continues to function as if nothing had happened. Another important advantage is that the ability 2 cards forming the virtual network interface can be combined to split the speed of your network connection.

Model	RM-N3000		
Input sensitivity	MIC: -50dBV / AUX: -10dBV		
Output level	odB		
S/N (<22kHz LPF)	MIC > 70dB / AUX > 80dB		
THD (<22kHz LPF)	< 0.1%		
Bandwidth	100 to 18,000Hz (+/-3dB)		
Communication	Ethernet Network (100Mo / 1Go)		
Power Source	24VDC		
Consumption	Max. 10W		
Dimensions (without Mic)	200(X) x 73(H) x 206(D)mm		
Operating T°	-10°C ~ +40°C		
Weight	1.29kg		

ALIM 24VDC 1.25A

220V/24VDC - 1.25A - 30W power supply



MS-N300



Integrated Control Software

MS-N300 is a control program of NCS-1000, a main server and it can control & monitors the whole system easily via web page.



GUI style & button type broadcasting operation of 6000 system



Extending the broadcasting zone with 24 source MICs and 512 remote MICs



Sending of remote equipment and monitoring of tone generator



Editing of source and zone information



Editing of events and broadcasting preset motions



Synchronizing of internet time



Equipment updating via web



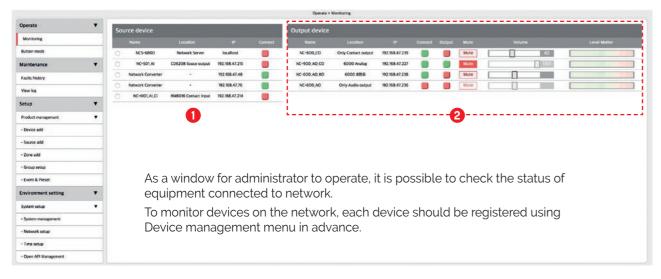
Load & Save function of equipment settingdB



Applying 256 bit security access key

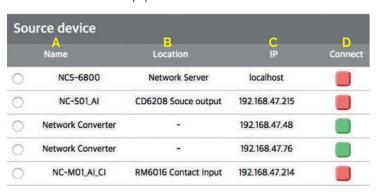
How to Use Software MS-N300

Equipment Monitoring



Source equipment

It indicates a source equipment list connected to network and thus, user can check easily.



- A/ Equipment Name: It indicates the equipment name of registered source equipment.
- B/ Position: It indicates the position of registered source equipment.
- C/ IP: It indicates IP of registered source equip-
- D/ Connection Status: It indicates the connection status of registered source equipment as green & red LEDs.

2 Output equipment

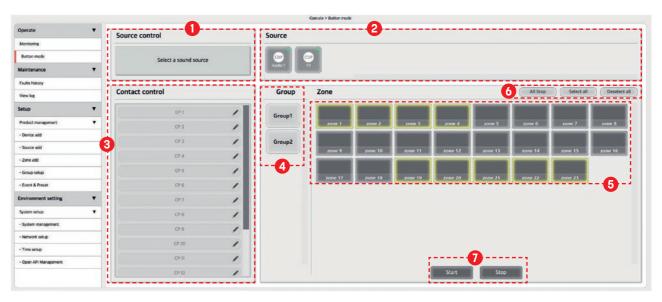
It indicates status & manipulation of output equipment connected to network and makes the user manage easily.

Output device	В	C	D	F	F	G	н
Name	Location	IP	Connect	Output	Mute	Volume	Level Metter
NC-600_CO	Only Contact output	192.168.47.239			Mute	45	
NC-900_AO_CO	6000 Analog	192.168.47.227			Mute	100	
NC-600_AO_RO	6000 8원화	192.168.47.238			Mute		
NC-600_AO	Only Audio output	192.168.47.236			Mute		

- A/ Equipment Name: It indicates the equipment name of registered output equipment
- B/ Equipment: It indicates the position of registered output equipment
- **C/** IP: It indicates IP of registered output equipment
- D/ Connection Status: It indicates the connection status of registered output equipment as green & red LEDs
- E/ Output: It indicates the output status of registered output equipment. Display green LED if it is on output, otherwise display red LED.
- F/ Mute: When pressing Mute button, the background of button is changed as red together with mute function
- G/ Volume: You can adjust the volume from 0 to 100 using volume control bar
- H/ Level Meter: It displays broadcasting output level meter

How to Use Software MS-N300

Button Operating Mode



Source control

The image of selected source device (CD or TUNER) is displayed.





PUBLIC ADDRESS

CD control window

TUNER control window

2 Source selection

It is a window to select the source meeting the requirements of user.

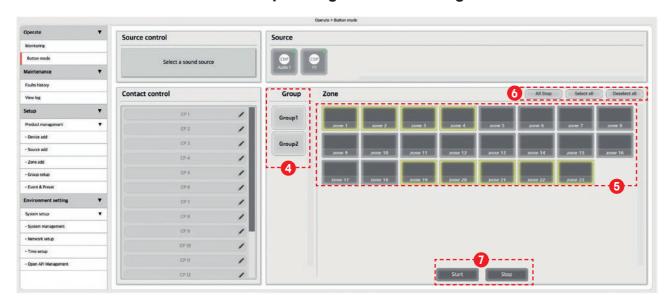


3 Contact control

- · Contacts selected in Event&Preset are activated and displayed on the list.
- Up to 16 virtual contacts can be set up.
- · Contact can be selected in Event & Preset to be applied to a certain OUTPUT zone.
- · When clicking on an activated contact, broadcasting Is outputted to selected OUTPUT zones without clicking START BROADCASTING button.
- · Clicking on an activated contact(1~16), the name of contact can be changed.

How to Use Software MS-N300

Button Operating Mode (following)



4 Group selection

- The image of selected source device (CD or TUNER) is displayed.
- Group selection is possible in the range of Group 1 ~ 12 and you can view the group number list by scrolling the right BAR up/down.
- When selecting the group with the preset group information, the region is selected.
- · Multiple selection is possible.

5 Zone selection

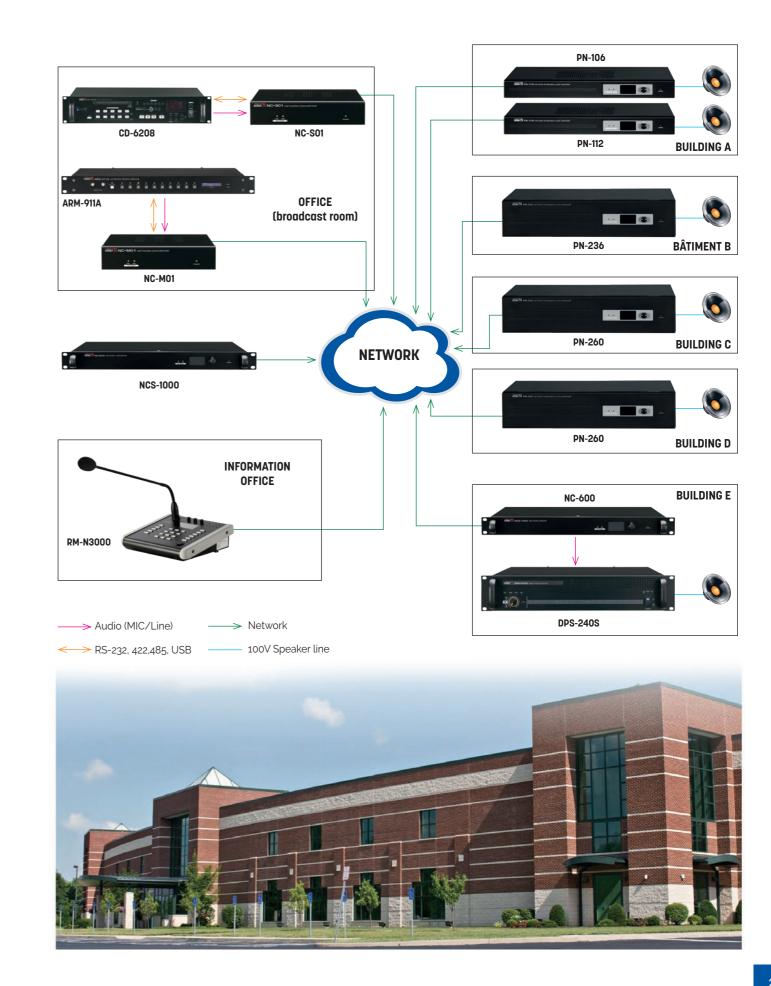
- When selecting directly group selection or zone, the selected zone indicates the border to divide the selection.
- When re-selecting the selected zone, the selection is canceled.

6 End all broadcastings - Select all - Deselect all

- End all broadcastings: All priority broadcastings are reset and terminated. Please note that priorities set in Event & Preset are preserved.
- · All selection: All regions are selected.
- · Canceling all selection: The selection of all regions is canceled..

Broadcasting start/end

- \cdot Broadcasting start: The selected tone generator is sent to the selected region.
- · Broadcasting end: The sending broadcasting is ended.



PUBLIC ADDRESS

ARM-911A system components

ARM-911A system components

NETWORK MESSAGES READER





- The ARM-911A meets the public address and voice alarm messaging requirements of small and medium-sized installations. It is a high performance and very versatile standalone automated network message reader. It is an ideal complement to any existing or new public address system and allows easy initiation of emergency message broadcasting and containment and PPMS procedures and much more.
- Up to 4 remote microphones can be connected to the ARM-911A. The microphone can be used for instantaneous live voicemail. The 10 buttons on the microphone console are used to activate the various messages. A TEL IN input allows the ARM-911A to be connected to a PABX via a SIPTEL MOD for triggering messages from any telephone set.
- Each input features volume controls, high pass filter, programmable EQs and user input settings, and priority level

adjustment. The 2 auxiliary inputs can accommodate any type of source: a wireless microphone, a music source, the reception of audio content from other equipment. Ten dry contacts or alarm inputs make it possible to obtain an external trigger in order to broadcast a pre-programmed message or from any remote device (microphone console; web page, front panel, telephone; dry contact, etc.)

 An integrated programmable TIMER makes it possible to plan the reading of messages or playlists recorded on internal non-volatile memory. Files can be transferred from a web browser. The ARM-911A can also be used for starting and ending bells in schools, broadcasting safety messages and signals and for automatic message playback.



ARM-911A rear panel

Remote microphone Station

It is possible to connect to the ARM-911A up to 4 remote microphone desks. The microphone can be used for instantaneous live voicemail. 10 buttons on the microphone station are used to activate different messages. A 4-digit security code can be programmed to prevent unauthorized use of the paging station.





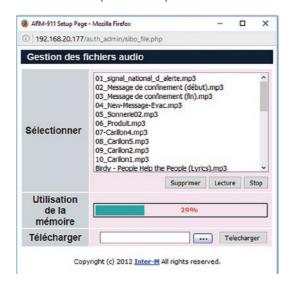
RM-911D: desktop type

RM-911W: wall-mount type

Web Browser Configuration

The ARM-911A is installed, configured and managed using an easy to use web browser interface.

- Setting up the network configuration
- Source priority configuration
- Adjustment of source level, HPF and equalizer
- Output level adjustment
- Programmable timer
- Remote Microphone Setup



Telephone Paging

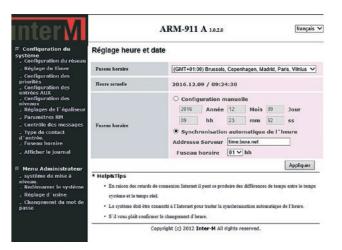
TEL-IN input on the back of the ARM-911A allows you to connect a MOD TEL 2 or MOD TEL SIP: the first operates on an analog telephone line via a PABX, the second operates on a VoIP network Through an IP PBX. Thus, whatever your installation, you can make an audio call or trigger one of the 10 messages of the ARM-911A from any telephone handset.



NTP (Network Time Protocol)

NTP enables automatic time synchronization. TThe ARM-911A's internal clock is updated and synchronized with external server clocks. This improves the accuracy of timer programming events to broadcast. The accuracy of time broadcasts is important.

MP3 file names for timer event programming can now contain special characters. This gives users more flexibility, especially for multilingual file names.



SMS Alert

The SMS-112 (GPRS or 4G/LTE, WiFi) or SMS-911 (3G/4G) modules are very simple modules, used to be alerted by an SMS in the event of an anomaly or in the event of a evacuation alert, PPMS, chemical risk...

You can also send an SMS from your mobile phone to trigger a specific contact which itself will trigger an evacuation message or other message on the ARM-911A. Simply insert a SIM card into the modules (not included compatible with any operator).

PUBLIC ADDRESS **ARM-911A system components ARM-911A system components**

ARM-911/

ARM-911A: automatic digital messages player LM-911A - LM-306: wall remote control plates for ARM-911A messages DM PPMS 01 - DM PPMS 01 EX: manual triggers



ARM-911A

- · High fidelity scalable audio for excellent speech intelligibility (MP3,WAV & WMA)
- · Timer scheduled payback (can be used for school ringtones; Evacuation messages; Containment messages; or for automatic message or playlist playback)
- Fault input monitoring and alarm via 5V reverse DC voltage with a line matching resistor at the EOL
- Scheduled playback of any of the 10 recorded messages and other via web-browser uploadable files
- Balanced audio output (variable output with -50dB/600Ω mic level, -10dB line and +4dB selector)
- · Optically coupled 10 Contact Closure and RS232 for control and status
- Industrial grade all metal construction, shock and vibration resistant
- · Redundant Flash memory, no battery backup required
- 10 message front panel start selections and status
- Source level, HPF and EQ adjust via web-browser
- · SD Memory Playback (2GB)
- Non-Volatile SD Card memory (2GB)
- Multi-message(4) sequencing capability
- Crystal clear 24 bit audio quality
- Over 20 Minutes of audio storage capacity
- Up to 20kHz bandwidth
- Fault output monitoring
- Message playback output monitoring
- Web-browser Configuration
- · Source Priority setup via web-browser
- Output Level Adjust via web-browser
- Up to 4 Remote paging mics
- · Telephone paging trunk input
- Internal program scheduler
- 24VDC Back up
- Rack mount (1U)



LM-911A

- This remote plate connected with a simple RJ45 Cat 5/6 cable allows you to trigger the first 4 messages of the ARM-911A
- · Connect up to 4 LM-911A or 4 mic consoles to your ARM-911A
- Dimensions (W×H×D): 114 × 70 × 50mm
- · Weight: 123g



LM-306

- This remote plate connected with a simple RJ45 Cat 5/6 cable allows you to trigger the first 6 messages of the ARM-911A
- · RGB color, tactile feedback, backlit, removable, labelable and customizable buttons
- Dimensions (W×H×D): 80 × 80 × 47mm
- Weight: 100g



DM PPMS 01

1-button black manual



DM PPMS 01 EX

1-button black manual trigger for outdoor use

RM-911D: table Mic station to trigger the ARM-911A RM-911W: wall Mic station to trigger the ARM-911A

RM-911D

- The RM-911D is a remote microphone station featuring a ten-key keypad for message playback selection. Key selection allows activation of pre-recorded message.
- The unit features a unidirectional dynamic microphone with a 14" gooseneck extension.
- · An audio signal level meter is provided for displaying the signal levels at the input or output. The unit displays the ready / busy state status via a LED display.
- It can be remote powered from the ARM-911A for a distance up to 300 meters. It requires to be locally powered by an optional 24VDC when installed distance above 300m.
- Talk button can be push to talk or latch on / latch off depending on dip switch setting. A pre-announce and post announce chime is also available with a built-in 1W monitor speaker.
- Easy cat5e wiring (power, audio, communications)
- · Broadcast Microphone primary supply
- Microphone Level LED output
- Selectable pre announce chime
- Status display
- 10 message start selections and status
- External Power available (24VDC Adapter)

RM-911W

- The RM-911W is a surface wall-mounted remote microphone station featuring a ten-key keypad for message playback selection. Key selection allows activation of pre-recorded message.
- The unit features a unidirectional dynamic tear-drop, push-to-talk hand held microphone with a retractable coil type cable exten-
- · An audio signal level meter is provided for displaying the signal levels at the input or output. The unit displays the ready / busy state status via a LED display.
- It can be remote powered from the ARM-911A for a distance up to 300m. It requires to be locally powered by an optional 24VDC when installed distance above 300m.
- Easy cat5e wiring (power, audio, communications)
- Broadcast Microphone primary supply
- Microphone Level LED output
- In Use Status display
- 10 message start selections and status
- Up to 4 Remote paging mics can be connected to one ARM-911A
- External Power available (24VDC Adapter)



DM-011D



RM-911W



ALIM 24VDC 1.25A

220V/24VDC - 1.25A - 30W power supply

 Constant voltage switching power supply that, when connected to a socket with a 3-point IEC cable, provides constant 24V voltage for a maximum power of 30W.

ARM-911A system components

SMS-112: GPRS or 4G/LTE modem, WiFi, 6 inputs/4 outputs dry contact

SMS/Mail sending box on Alert and Alarm triggering...

- · 6 digital inputs (dry contact)
- · 4 Analog inputs, 4/20mA, 0/10V, NTC
- 4 dry contact relay outputs
- 12-24VDC or 230VAC power supply
- Integrated backup battery (1 hour max)
- · Web server embedded on 32GB SD card
- Up to 300 rules can be triggered (one trigger + 5 conditions + 5 actions)
- Up to 100 predefined users
- Requires MICRO SIM card (3FF) for SMS





Sending SMS & Mail alerts up to 100 users

SMS-112 supports the following features:

- · Alarms to SMS, Mail
- Remote controls by SMS, Mail, Vocal, DTMF
- · Detection and alert in case of loss of power
- Remote I / O copy (GSM or WiFi)
- · Secure caller management
- Automatic recording of all events
- Management of calendars and time programs
- · Secure Web access on tablet or mobile phone...

CONFIGURATION





There are many possibilities for implementing the SMS-112:

LOCAL

- > WiFi using an internet browser
- > Wired via a Serial/USB cable and software **REMOTE**
- > Web administration portal (using a browser)
- > Otherwise by Mail, SMS or Chat TELEGRAM

For sending SMS or for Internet access without a WiFi network, it is necessary to insert a MICRO SIM card (3FF) on the back of the device.









ACCESSORIES



close one of its outputs.



00000000000

MAJORCOM

Dim. (WxHxD)

71 x 90 x 58mm

000000000

SENDING OF FAULT ALARMS

Sending an alarm by SMS, Mail or Voicemail in the

event of an electrical dry contact tripping when the threshold of an analog input is exceeded or if the

REMOTE COPYING OF A CONTACT

Point-to-point application between 2 SMS-112 trans-

mitters (+ SIM cards). When a contact state changes

on SMS-112 #1, it sends a command to SMS-112 #2 to

SMS-112

2g 3g 4g 🐠 🚯

power supply is cut.





Backup battery

SMS-911: SMS 3G/4G module

- A simple GPI (8 available) triggered will send you an SMS text to alert you. The SMS text content can be customized up to 3 phone numbers using the PC programming software. For each dry contact (among the 8) corresponds the sending of a customizable SMS.
- Has 2 relay outputs, 7A @ 125VAC, 5A @ 125VAC, 20A @ 14VDC.
- The output relay of the alarm link can be activated 0-120 min if the control unit is triggered; 8 Alarm, NC or NO inputs.
- · Can be used from anywhere, no distance limitation.
- Quad band GSM GPRS 850/900/1800/1900MHz modules inside; UMTS / HSDPA / 4G / 3G modules are optional.
- 32-bit microcontroller, reliable performance with integrated watchdog.
- 1 siren output can connect to a siren directly.
- 3 SMS alert numbers and 5 alarm numbers.
- · Can be configured and programed from PC Configurator via USB cable.
- Built-in rechargeable battery, energy loss / recovery alarm, 24/24 and 7/7 operation.
- · Update firmware via USB.
- · Wall mounting or 35mm standard DIN rail, very simple installation.

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OOOOOOO USB ANT

SMS-911

GSM/3G/4GLTE

SMS Alarm Controller

8DIN/200/USB

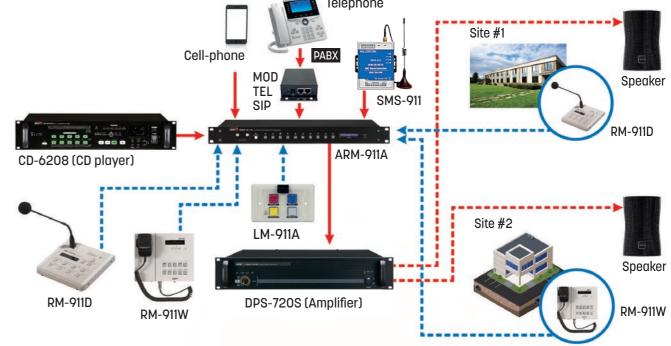
CE ROHS FC X

MAJORCOM

PUBLIC ADDRESS



PA example: education buildings, 2 sites



Modele		ARM-911A							
Contact O	utputs	5 Dry Contact Outputs							
Power Sou	urce		120VAC - 240VAC, 50)/60Hz / 24VDC					
Power Cor	nsumption		16W	,					
Operating	Temperature		0°C ~ +4	0°C					
Dimension	ns		482 x 44 x 28	0mm · 1U					
Weight			3,5kç	3					
		Input Sensitivity	Signal to Noise Ratio (S/N, 20kHz LPF, A-WTD)	THD (20kHz LPF)	Bandwidth (+1/-3dB)				
	-50dBU	-50dBu/10kΩ ±3dB	Normal: 67dB, Limit: 60dB	Normal: 0.06%, Limit: 0.15%					
AUX 1/2 (CH IN	-10dBU	-10dBu/10kΩ ±3dB	Normal: 85dB, Limit: 78dB	Normal: 0.007%, Limit: 0.02%					
@1kHz)	+4dBU	+4dBu/10kΩ ±3dB	Normal: 88dB, Limit: 80dB	Normal: 0.005%, Limit: 0.015%	20 to 20,000Hz				
	+10dBU		Normal: 102dB, Limit: 95dB						
SD CARD (Play MP3	, OdBFS 1kHz File)	-10dBu ±3dB	Normal: 94dB, Limit: 87dB	Normal: 0.01%, Limit: 0.04%	20 to 18,000Hz				
RM IN (@1k (RM-911D c	(Hz), connected)	odBu/10kΩ ±3dB	Normal: 65dB, Limit: 60dB	Normal: 0.3%, Limit: 0.7%	150 to 18,000Hz				
TEL IN (TEL IN @11	KHz)	-10dBu/10kΩ	Normal: 85dB, Limit: 78dB	Normal: 0.007%, Limit: 0.02%	100 to 18,000Hz				
NETWORK (Play MP3 1kHz File @	, OdBFS	-10dBu/10kΩ	Normal: 85dB, Limit: 78dB	Normal: 0.01%, Limit: 0.04%	20 to 18,000Hz				

Model	RM-911D	RM-911W
MIC INPUT (1kHz)	Balanced	Unbalanced
Input Sensitivity	-50dBu ±3dB	
Signal to Noise Ratio (S/N, 20kHz LPF, A-WTD)	Normal: 65dB / Limit: 60dB Normal: 63dB / Limit: 58dB	
THD (20kHz LPF)	Normal: 0.3%, Limit: 0.7%	
Frequency Response (+1/-3dB)	150 to 18,000Hz	
Monitor Amp	0.5W 16Ω	
Maximum Operable Distance CAT5E (50°C)	Cable resistance ≤ 30Ω: 300m / Cable resistance ≤ 80Ω: 100m	
Operating Temperature	-10°C ~ 40°C	
Power Source	24VDC (From ARM-911A)	
Power Consumption (From ARM-911A DC 24V)	4,8W	2W
Dimensions (WxHxD)	200 x 67 x 206mm	261 x 188 x 46mm
Weight	1,37kg	1,7kg

Model	SMS-911	
Power Supply	AC adapter: DC 12V / 1A or a DC power supply between 9~36V DC	
Power Consumption	Standby: 12VDC / 70 mA; Max operation: 12VDC / 300 mA	
GSM/3G/4G Frequencies	2G: 850/900/1800/1900MHz 3G version Optional: (UMTS/HSDPA) W:900/2100@UMTS 900/1800@GSM; C:850/1900@UMTS 850/900/1800/1900@GSM; T:850/2100@UMTS 850/900/1800/1900@GSM; 4G LTE	
SIM card	SIM card only	
External Antenna	SMA antenna, 50Ω	
Serial Interface	1 USB port	
Input Contact	8x NC or NO dry contact	
Relay Output	2x Relay Outputs 7A @ 125VAC, 5A @ 125VAC, 20A @ 14VDC	
Siren Output	1	
Backup Battery	3.7V 900mAH	
Dimensions	70 x 88 x 30mm	
Installation	35mm standard DIN rail (not supplied) - Wall bracket (default)	
Weight	500g	

The 6000 System has become

- The 6000 System is available in two editions: the 8-BUS 6800 System and the 1-BUS 6100 System.
- This digital sound system is based on architecture that guarantees reliable performance and high quality, using the latest in microprocessor and digital signal processing (DSP) technology. It is efficient and easy to configure and use thanks to a simple Windows® user interface.
- The system is suited for large areas such as office buildings, educational institutions, hospitals, shopping centres, cam-

puses, transportation centres, penal institutions, and many commercial establishments and businesses.

· Its extendability and flexibility make it an ideal solution for playing voice communications and background music and managing scheduled programs. It provides reliable, efficient communication, with sound adaptable for each zone and excellent speech intelligibility. The system is already being used in many commercial and business applications.

Strengths of the 6000 System



The system is controlled and monitored in real time from a PC (configuration, monitoring, and surveillance of failures).



Up to 32 mic stations with zone group programming.



Messages and announcements can be triggered on a programmed scheduled and by contact.



Emergency messages and events can be triggered by contact.



Master multiple sources on 8 digital BUSs.



Control music players (CD player, tuner, etc.) via the RS-232.

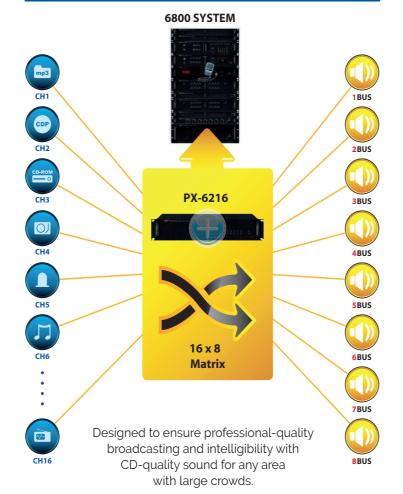


Internal playlist and broadcast scheduling by time slot.



16 to 160 zones possible.

The heart of the 6800 System: PX-6216 Matrix



Large expansion capacity

- The digital 6000 System can be extended from 16 to 160 output zones. Oversee up to 10 analog input sources and up to 32 remote RM-6800 mic stations.
- · Ideal for anything from simple applications to complex multizone applications and background music. Its 8-BUS system lets you move the 8 outputs to any other system interface up to 1km

the leading digital PA broadcast system

Control software easy to use

- The 6000 System is easy to configure, control, and manage thanks to intuitive, Windows®-based software.
- It comes with enough features to satisfy even the most demanding sound professional, yet is still easy for beginning users to operate. The system management software can also monitor and record system errors.
- The features available in the MS-6800 and MS-6100 software for the 6800 and 6100 Systems include a computer-controlled messaging system, recording management, a scheduling feature, an external graphic programming interface, scheduled emergency announcements, and a multi-zone and per-zone call function. The MS-6800 software comes with the PX-6216, and the MS-6100 comes with the ECS-6216P.
- The MS-6800 can also manage system analyses (including errors), automatic saves, automatic switching to backup amplifiers, and recordings.
- · You can connect the PX-6216 to up to 32 RM-6800 mic stations. The stations' keys are configurable using the software, and you can create call groups using the macro feature.

MS-6100/6800 Total Management 6000 SYSTEM

MS-6100 Software











PUBLIC ADDRESS

Circumstance setup

Introduction to the 6000 System

MS-6800 Software





EM Router



System setup



Circumstance setup



Digital messaging and

play-back music

· Multiple background music inputs that can be opera-

ted using the 6000 System management software. Play

announcements and planned messages, a built-in play-

list, or digital music programmed directly using a PC and

management software. With the built-in digital audio re-

cording feature, you can send voice messages or safety

announcements automatically. The system also lets you

trigger emergency messages and events remotely using

input from the external graphic programming interface.

• The 6000 System lets you control various sources, such as the CD-6208, to operate and program CD tracks and

· When combined with the SC-6224, you can monitor

loud-speaker lines for short circuits, open circuits, over-

loads, grounding, etc. When combined with the AFD-

6214, you can manage amplifiers and switch to a backup

• The MS-6800 and MS-6100 software let you manage

audio files stored internally on DRP memory.

equipment status and failure in real time.

amp if an amp fails.



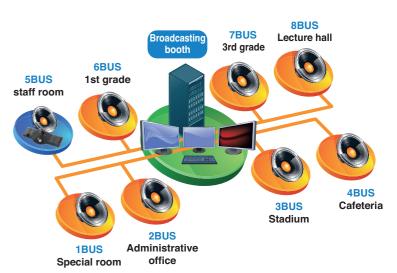
System features

- Up to 160 local broadcasts
- Up to 32 remote-controllable microphone stations
- 8 simultaneous broadcasts BUSs
- Handles up to 32 broadcast groups
- 12 pre-selected broadcast keys
- Emergency message broadcast
- Alarm broadcasts, staggered broadcasts, and scheduled programming
- Real-time remote control via PC (monitoring, operation, event logging)
- Program works on network, up to five clients
- · User access through four-step password
- System logbook file
- Automatic recording using mic station
- Manage broadcast calendar while on vacation
- Monitor failure of system to communicate with fire alarm systems
- Manage source programs and priority, remote control (MP3, CD, tuner, etc.)
- Broadcast messages by microphone from client PC
- Background music/scheduled messages can be broadcast by PC sound card
- Manage background music broadcast priorities
- Monitoring and equipment control features (power supply, battery charger, loudspeaker, line amplifiers)
- Broadcast messages by telephone
- DSP with built-in 7-band equalizer
- Connects to the system easily with a standard CAT5 cable and RJ45 connector

Educational institutions

Schools, Universities and Colleges, Training facilities

- Educational institutions often need to make scheduled broadcasts and send messages instantly to specific zones over long distances, for instance across a building or campus.
- The 6000 System's built-in digital audio system lets you make customized, scheduled calls to classrooms.
- With its high-quality audio system, it can also broadcast on-demand audio streams to classrooms or specific zones, or even to conference rooms and auditoriums.
- The sound source can be transmitted digitally in very high quality over long distances using a TCP/ IP network or fibre optics up to 15km without using repeaters.



Commercial establishments

Large stores, Shopping centres, Multiplex theatres, Large hotels

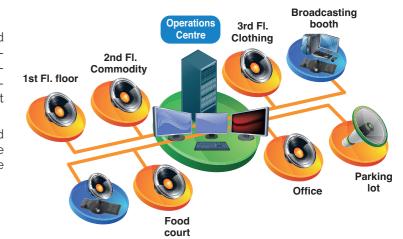


- Commercial establishments require various types of background music coming from local sources and specific announcements that vary according to zone. These constraints can differ for each floor and in each zone.
- The 6000 System is the optimal network system, featuring flexible control and broadcasting from various locations, such as the command centre, the information centre, or service centres.

Public spaces

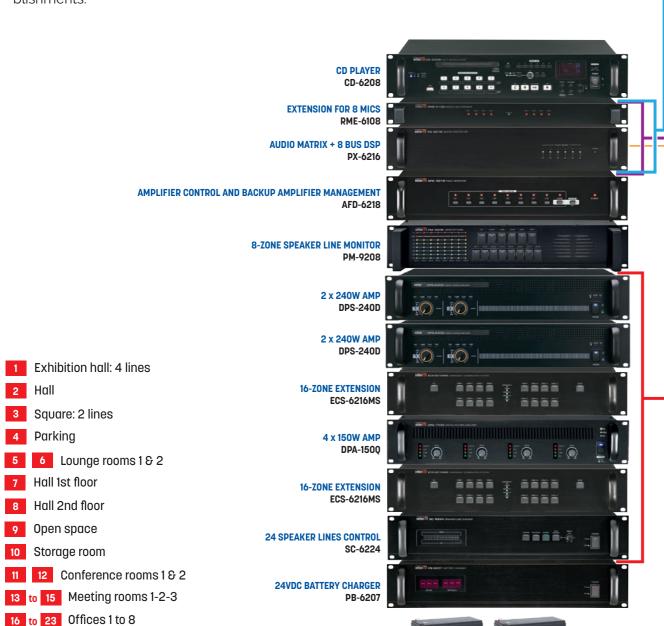
Office buildings, Train stations, Airports, Hospitals, Exhibition centres

- In public spaces, desired features and sound constraints can vary from one zone or floor to another, depending on the characteristics of the building or area. Some zones may require soft background music, while others may need frequent announcements, whether scheduled or live.
- The 6000 System has a flexible broadcasting and sound source feature, which lets you control the sound source for the entire network, making it the ideal system for use over networks.

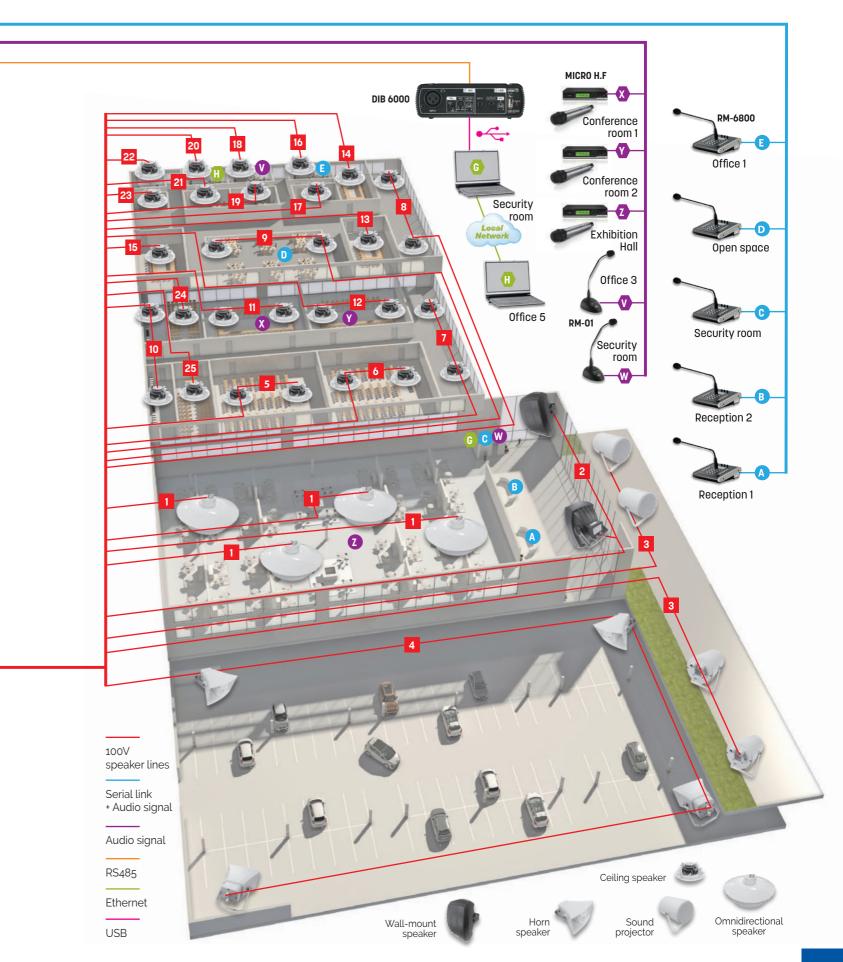


6800 System: multi-zone broadcasting (8 bus)

- The 6800 is a multi-zone broadcasting system programmable directly using a PC and a USB interface. Its 8-BUS system lets you move the 8 outputs to any other system interface up to 1km away.
- Ideal for large, multi-zone broadcasting areas such as office buildings, schools, hospitals, transportation centres, penal institutions, and a variety of commercial and businesses establishments.
- · Offering flexible, upgradable voice communications, the 6800 System lets you manage 8 broadcast zones and up to 160 call areas.
- Talk-over priority can be define from control software allowing this system to adapt to all Public Address uses.



Batteries



2 Hall

4 Parking

7 Hall 1st floor

8 Hall 2nd floor

9 Open space

10 Storage room

24 25 Information rooms 1 & 2

3 Square: 2 lines

PX-6216: 16 x 8 matrix



- The heart of the 6800 System
- 10 Mic/Line inputs, 2 stereo inputs, 8 outputs
- Connects to 4 selective call microphone stations
- Each input can be processed, monitored, and assigned directly to an output using a PC and a USB interface
- Lets you operate up to 4 audio sources per RS-232 port

DIB-6000: PC USB interface



- · Allows a Windows® PC to communicate with the 6800 System
- This means the system can be fully operated and monitored up to 1km away
- Features a source input and an adjustable-level mic that can be given priority

PM-9208: speaker line monitor



- Its high fidelity loudspeaker allows you to listen to up to 8 loudspeaker lines.
- LEDs allow you to visually monitor each speaker line.

AFD-6218: amps control unit



- · Lets you switch to a backup amp
- · Control up to 8 amps simultaneously
- Front-panel LEDs let you monitor amp status directly

ECS-6216MS: 16-zone extension



- Lets you add 16 zones using a single CAT5 cable
- · Move the extension up to 1km away using the connection and the 8-BUS system
- Connect up to 9 ECS-6216MS to the system for a total of 160 zones

RME-6108: Mic station extension



- Lets you add 8 RM-6800 selective call mic stations
- 4 RME-6108 can be used for a total of up to 32 stations

SC-6224: loudspeaker line control



- Test up to 24 loudspeaker lines automatically at a configurable, regular interval
- Line failures (open circuit, short circuit, overloads, etc.) are signaled by front-panel LEDs and an audible signal

CD-6208: multi-sources 6 CDs & USB player



- Internal SD memory
- Plays WAV, MP3, and WMA audio files
- Stores up to 6 CDs
- · Stereo output (XLR and RCA), mono (XLR), coaxial and optical

PB-6207: 24VDC battery charger



· A display lets you control the voltage and current for charging batteries.

DPA-150Q: Class-D digital amp 4x150W



DPS-240D: Class-D digital amp 2x240W



- DPA & DPS digital amps with efficiency better than 90% for less heat dissipation, noise, and weight compared to traditional analog amps
- Includes 2 audio inputs, including one priority input to cut the current program so you can broadcast a priority message by dry contact, for example
- The ON/OFF switch can be controlled remotely using a dry contact



PUBLIC ADDRESS

- Up to 160 zones or zone groups, plus general calls and chime generation
- Up to 1 km away from the system with a single CAT5/6 cable, thanks to RS-422 / CAN BUS communication
- Volume control: MIC / auxiliary input / monitoring speaker / chime

ALIM 24VDC 1.25A:



PX-6216: 14x8 digital audio matrix up to 32 mic stations



- This DSP-based 14 x 8 digital audio matrix is configured, controlled and monitored by a PC via the MS-6800 custom system control software.
- The PX-6216 is designed to provide professional quality sound and intelligibility with the high performance required for mass notification.
- This matrix offers up to 8 priority levels per fade output (via its modulation detection system).
- MIC/LINE inputs with 7-band EQ, input/output volume control and mixing.
- 6 presets and control (Preset).
- CD-6208 / TU-6200 / ARM-911A type external source control...

- 8 balanced audio outputs
- High S/N ratio
- Good dynamic range without compression
- The system offers a cost-effective solution for background broadcasting and mic calls.
- Supports full two-channel stereo sound
- 4 RJ45 ports for multi-zone call microphone expandable up to 32 via the RME-6108
- 8 mic/line inputs (2 with phantom power)
- 2 unbalanced line inputs

Model	PX-6216	
Output	0dBV balanced	
Inputs	EM, TIMER, RM: -10dB balanced / LINE 1-8: -10dB balanced MIC 1-8: -50dB balanced / LINE 9, 10: -10dB unbalanced	
Bandwidth ±3dB	20 to 20,000Hz	
THD	LINE < 0,01% / MIC < 0,1%	
Signal/Noise	LINE > 85dB / MIC > 60 B	
Max Signal/Noise	> 100dB (+8dBV input)	
Phantom power source	1, 2 : 24VDC	
Priority	RM1 > RM2 > RM3 > RM4 > BGM	
Communication	LINK IN/OUT: RS-485 (Max. 1km) / RM: RS-422 (Max. 1km) / Source: RS-422 (Max. 12m)	
Operating temperature	-10°C ~ 40°C	
Power source	24VDC, 1A	
Dimensions (WxHxD)	482 x 88 x 280mm · 2U	
Weight	4.3kg	



Rear panel

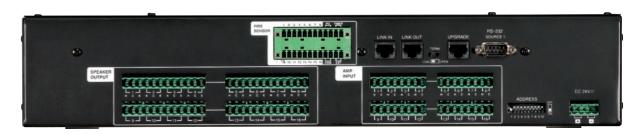
ECS-6216MS: 16-zone extension



• Lets you add up to 16 zones using a single CAT5 cable connection. Move the extension up to 1km away using the connection and the 8-BUS system.

• Up to 9 ECS-6216MSs can be connected to the 6800 System for a total of 160 zones.

Model		ECS-6216MS	
Zones		16	
Communication	Link In/Out	RS-485 (Max. 1km)	
Communication	Source	RS-232 (Max. 12m)	
Operating temperat	ure	-10°C ~ 40°C	
Power source		24VDC, 600mA	
Dimensions (WxHxI	0)	482 x 88 x 280mm · 2U	
Weight		4,3kg	



Rear panel

DIB-6000: PC USB interface



- The USB interface allows a Windows® PC to communicate with the 6800 System. It converts the PC's USB output into RS-485.
- This means the system can be entirely operated and monitored at distances up to 1km.
- The DIB-6000 features a source input and an adjustablelevel mic input that can be given priority. The Mic input can be used to record announcements on the PC.

Model	DIB-6000	
Interface	USB	
Communication	RS-485 (Max. 1km)	
Operating temperature	-10°C ~ 40°C	
Power source	USB 5VDC	
Dimensions (LxPxH)	140 x 43 x 140mm	
Weight	0,74kg	
MIC IN balanced to LINE OUT balanced		
Sensitivity	-6odB	
THD	< 0.5%	
Bandwidth	70 to 10,000Hz	
Signal / Noise	>50dB	
LINE IN unbalanced to LINE OUT balanced		
Sensitivity	+1,4dB	
THD	< 0,2%	
Bandwidth	40 to 20,000Hz	
Signal / Noise	> 80dB	
LINE IN balanced to LINE OUT unbalanced		
Sensitivity	+1,4dB	
THD	< 0,2%	
Bandwidth	40 to 20,000Hz	
Signal / Noise	> 80dB	



Rear panel

RME-6108: mic station extension



- Lets you add 8 RM-6800 selective call mic stations.
- 4 RME-6108 can be used for a total of up to 32 stations in the 6800 System.
- Manage station priorities using the system management software.

Model	RME-6108	
Channels	8	
Communication	RS-422 (Max. 1km)	
Operating temperature	-10°C ~ 40°C	
Power source	24VDC	
Dimensions (WxHxD)	482 x 44 x 280mm · 1U	
Weight	2,8kg	



Rear panel

RM-6808: system Mic station

- Multi-system selective call mic station
- Up to 160 zones or zone groups, plus general calls and chime
- Up to 1 km away from the system with a single CAT5/6 cable, thanks to RS-422 / CAN BUS communication
- Zone group configuration for the 6800/6100 system is carried out directly with the MS-6800 system management software.
- 0 ~ 9 Keys, All, Talk, Chime buttons
- 2.43" OLED display
- Output level indicator
- · Monitoring speaker
- Volume control: MIC / auxiliary input / monitoring speaker / chime
- Balanced odB audio output and 16 dry-contact remote controls for RM-916/RM-616 mode
- DC 24V power input





RM-6800 Rear panel

PM-9208: speaker line monitor, 8 zones



- It provides audible and visualmonitoring of up to 8 single-channel amplifiers orspeaker lines.
- 8 x 8-segment LED displays monitor up to 8 amplifier outputs or speaker lines, with 5-step attenuation to match different amplifier levels.
- A built-in speaker allows monitoring of the selected channel and features 4-step attenuation. The speaker is passive (no internal amplifier) and the LED display requires 24VDC (power supply not included).
- 8-Channel Monitor Panel
- 10 Segments LED Meter for Each Channel
- Built-In Monitor Speaker
- Channel Selector Switches
- LED Indication on Each Switch
- Monitors 8 70/100V Lines
- 24VDC Operation Only
- Rack Mount (2U)
- Power Supply Not Included

Model	PM-9208	
Inputs	8 x 100V / 70V	
LED display	8 outputs (simultaneous)	
Attenuator	5 positions	
Output power	Max 15W	
Frequency response	32 to 16,000	
Operating temperature	-10°C ~ 40°C	
Power source	24VDC	
Dimensions (WxHxD)	482 x 88 x 280mm · 2U	
Weight	3,8kg	



Rear panel

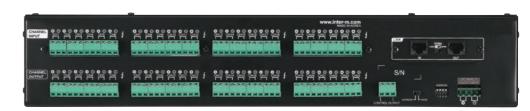
SC-6224: loudspeaker line control



- Test up to 24 loudspeaker lines automatically at a configurable, regular interval.
- Line failures (open circuit, short circuit, overloads, etc.) are signaled by front-panel LEDs and an audible signal.

PUBLIC ADDRESS

Model	SC-6224	
Line impedance test	20Ω - 3kΩ	
Test duration / channel	<100ms	
Test interval	5-200min	
Channels	24	
Operating temperature	-10°C ~ 40°C	
Power source	24VDC, 200mA	
Dimensions (WxHxD)	482 x 88 x 280mm · 2U	
Weight	4.4kg	



Rear panel

AFD-6218: amps control unit



- Control unit lets you switch to a backup amp.
- Control up to 8 amps simultaneously.
- An adjustable-interval test controls connected amps automatically.
- Front-panel LEDs let you monitor amp status directly.
- Failures can also be viewed in the system software.

Model	AFD-6218	
Amp inputs	8 + 1 safety amp	
Amp outputs	8 + 1 safety amp	
Audio inputs	8	
Operating temperature	-10°C ~ 40°C	
Power source	24VDC, 170mA	
Dimensions (WxHxD)	482 x 88 x 280mm · 2U	
Weight	4kq	



Rear panel

CD-6208: multi-sources 6 CDs & USB player



- Professional multi-source USB/CD player with internal
- Plays WAV, MP3, and WMA audio files.
- High-quality storage of up to 6 CDs. Controls are easily accessible on front panel or through the RS-232 port.
- Features output in stereo (XLR and RCA), mono (XLR), coaxial and optical.
- Device is operable using AMX and CRESTRON systems via an RS-232 port.

Model	CD-6208	
Discs and formats	CD / CD-R / CD-RW · Audio CD - MP3 - WMA	
Outputs	2 x XLR L/R - 1 XLR mono - RCA - 2 SPDIF (optical, analog)	
Bandwidth	20 to 20,000Hz ±0.5dB	
T.H.D	< 0.003%	
Signal / Noise	>100dB	
Memories	1 to 5 = 1GB ; 6 = 3GB (total 8GB)	
Consumption power	27	
Power source	230VAC - 50Hz	
Dimensions (WxHxD)	482 x 88 x 280mm · 2U	
Weight	5.3kg	



Rear panel

6800 system components
6800 system components

PB-6207: 24VDC battery charger



• The PB-6207 is a unit for recharging the battery to insure that the battery's maximum charge capacity is achieved.

BATTERY AUTO RECHARGING

It charges with maximum 3A, when it close to full charging (26.4V) the electric current will be reduced up to 10mA~20mA for maintaining a full charging.

· VOLTAGE/CURRENT DISPLAY

Front LCD displays status of power distribution (Voltmeter/Amperemeter).

• PC MONITORING

The charging voltage and current can be monitored by window program of 6800 System.

Model	PB-6207	
Full charge voltage	26.4V	
Starting current	3A Max.	
Operating temperature	-10°C ~ 40°C	
Power source	230VAC · 50/60Hz	
Dimensions (WxHxD)	482 x 88 x 280mm · 2U	
Weight	6kg	



Rear panel

DPA-150Q: Class-D 4x150W - 100V - 24V DC digital amp DPS-240D: Class-D 2x240W - 100V - 24V DC digital amp



- DPA & DPS are Class-D digital ampilfiers with efficiency better than 90% for less heat dissipation, noise, and weight compared to traditional analog amps.
- They include 2 audio inputs, including one priority input to cut the current program so you can broadcast a priority message by dry contact, for example.
- The ON/OFF switch can be controlled remotely using a dry contact.
- Front-panel LEDs let you see amp status instantly.
- These amplifiers are fitted with a 24VDC supply terminal block for use on booster batteries.

Model	DPA-150Q	DPS-240D
RMS Power	4 X 150W	2 x 240W
Bandwidth (1W, ±3dB)	50 to 20,000Hz	60 to 20,000Hz
100V impedance	66.7Ω	41.6Ω
70V impedance	32.7Ω	20.4Ω
Input sensitivity	1V/10kΩ	
THD	<0.2%	< 0.5%
Signal / Noise	>100dB	>100dB
Operating temperature	-10°C ~ 40°C	
Power source	AC 220 - 240V · 50/60Hz - DC 24V	
Dimensions (WxHxD)	482 x 88 x 367mm · 2U	482 × 88 × 371mm · 2U
Weight	6,8kg	7.4kg



DPA-150Q rear panel



DPS-240D rear panel

ALIM 24VDC 1.25A

220V/24VDC - 1.25A - 30W power supply



- A constant voltage switching power supply necessary for some devices that require an external power supply.
- Connects directly to a mains using a 3-point IEC cable and provides constant 24V voltage for a maximum power of 30W.

Model	ALIM 24VDC 1.25A
Input	90-260VAC
Output	24VDC
Power	30W
Operating temperature	-10°C ~ 70°C
Dimensions (WxHxD)	93 × 35 × 49mm
Weight	275g

Which 6800 System component requires the ALIM 24VDC 1.25A?

Model	ALIM 24VDC 1.25A
PM-9208	•
RME-6108	•
PX-6216	•
ECS-6216MS	•
AFD-6218	•
SC-6224	•
RM-6800	•

PA example: BUILDING

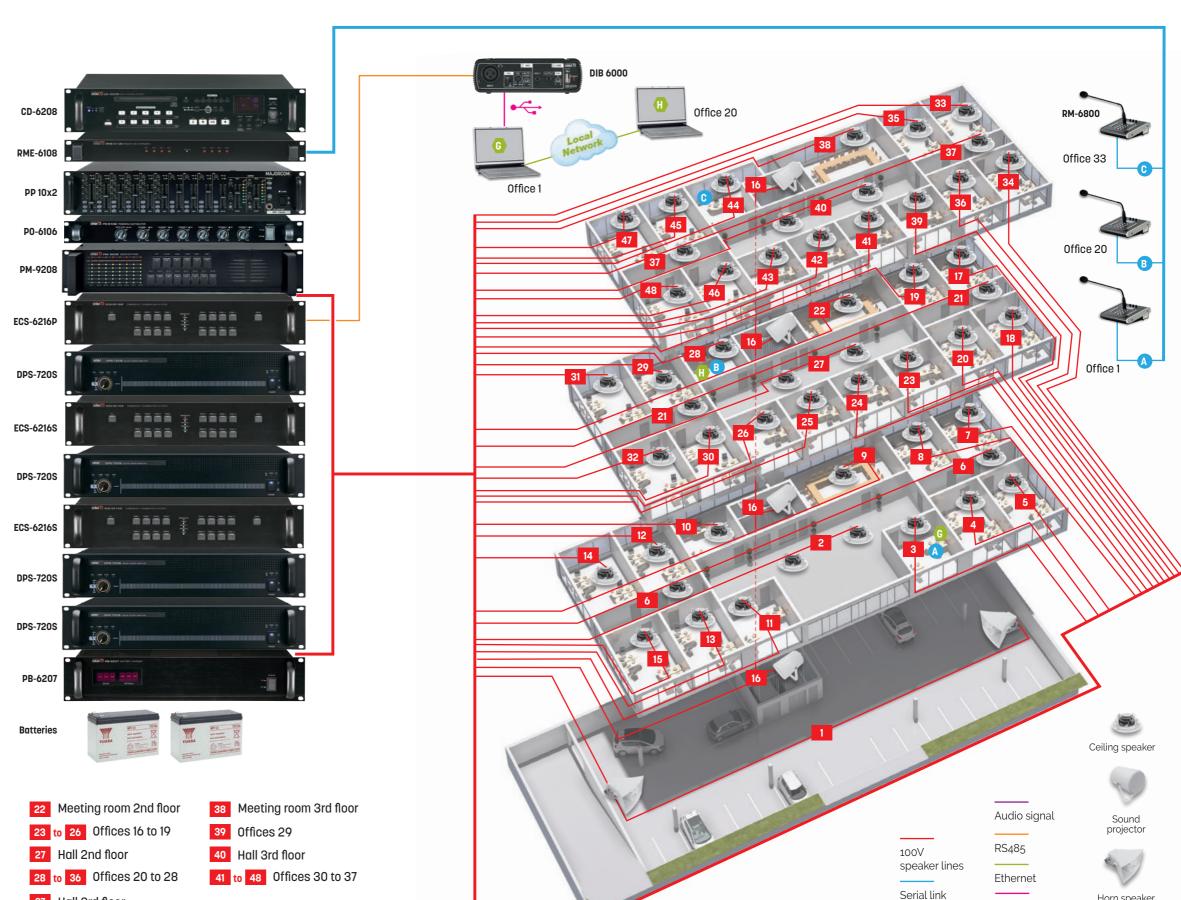
Horn speaker

USB

+ Audio signal

Selective Call System

- Configuration and operation are simple and efficient thanks to a Windows® interface.
- · Ideal for large areas with multi-zone broadcasting such as office buildings, schools, hospitals, transportation centres, penal institutions, and a variety of commercial and businesses establishments.
- · Offering flexible, upgradable voice communications, the 6100 System can be extended from 16 to 160 call zones.
- 1 source and 16 call stations can be connected to the system. Multiple signals can be transmitted over long distances via the digital BUS using a TCP/IP network or fibre optics up to 15km.



- 1 Parking
- 2 Hall 1st floor
- 3 to 5 Offices 1 to 3
- 6 Hall 1st floor
- 7 8 Offices 4 & 5
- 9 Meeting room 1st floor
- 10 to 15 Offices 6 to 11
- 16 Stairs
- 17 to 20 Offices 12 to 15
- 21 Hall 2nd floor
- 37 Hall 3rd floor

PUBLIC ADDRESS

ECS-6216P: main matrix unit



- Provides 16 call zones.
- Communicates with system elements via a CAT₅ cable on 1 BUS to make installation easier.
- Uses 2 RS-232 interfaces to operate audio sources such as a CD player or tuner.

PM-9208: speaker line monitor



- Its high fidelity loudspeaker allows you to listen to up to 8 loudspeaker lines.
- LEDs allow you to visually monitor each speaker line.

PP 10x2 : 10 inputs/2 outputs preamplifiermixer



- Rack-mounting preamplifier fitted with 10 inputs and 2 outputs. Each input has a display of modulation presence.
- Trim and tonal setting on each input (except CH7 to CH10).
- 2 outputs with 2-band equalization. A bar graph on each output allows to display the modulation level.

PB-6207: 24VDC battery charger



 A display lets you control the voltage and current for charging batteries.

ECS-6216S: extension module for the ECS-6216P



• Lets you extend the system to up to 160 zones.

DIB-6000: PC USB interface



- \bullet Allows a Windows® PC to communicate with the 6800 System
- This means the system can be fully operated and monitored up to 1km away
- Features a source input and an adjustable-level mic that can be given priority

RME-6108: Mic station extension



- Lets you add 8 RM-6800 selective call mic stations
- 4 RME-6108 can be used for a total of up to 32 stations

CD-6208: multi-sources 6 CDs & USB player



- Internal SD memory
- Plays WAV, MP3, and WMA audio files
- Stores up to 6 CDs
- Stereo output (XLR and RCA), mono (XLR), coaxial and optical

DPS-720S: 720W Class-D digital amplifier - 100V - 24VDC



- The DPS-720S is a 2U, single channel, 720W power Class D digital amplifier with over 90% efficiency.
- Thus, it allows the reduction of heat dissipation, noise and weight compared to traditional analog amps.
- This amplifier has 2 audio inputs including a priority input allowing the current program to be cut off for the broadcast of a priority message by dry contact, for example.



- Up to 160 zones or zone groups, plus general calls and chime generation
- Up to 1 km away from the system with a single CAT5/6 cable, thanks to RS-422 / CAN BUS communication
- Volume control: MIC / auxiliary input / monitoring speaker / chime

ALIM 24VDC 1.25A:

220V/24VDC -1.25A - 30W power supply



ECS-6216P: main matrix unit

ECS-6216S: extension module for the ECS-6216P



- The ECS-6216P is the main matrix unit for the 6100 System. It provides 16 call zones. A USB interface (DIB 6000) lets you control and configure the system using a PC. Manage up to 160 call zones using the ECS-6216S exten-
- Connects to 2 selective call mic stations by default. Connect to up to 16 stations using the RME-6108 extensions.
- •The ECS-6216P communicates with 6100 System elements through a CAT5 cable on 1 BUS to make installa-
- Two RS-232 interfaces operate audio sources such as a CD player, tuner, etc.



• The ECS-6216S is the extension module for the ECS-

6216P, letting you extend the system by 16 zones.

• Create up to 160 zones by daisy-chaining units.

Model ECS-6216P		ECS-6216P	ECS-6216S	
Priority		EMERGENCY > TIMER > RM 1 > RM 2 > MAIN		
Zones		16		
	Link In/Out	RS-485 (Max. 1k	m)	
Communication	RM	RS-422 (Max. 1km)		
	Source	RS-422 (Max. 12m)		
Operating temperatu	re	-10°C ~ 40°C		
Power source		24VDC		
Dimensions (WxHxD)	1	482 x 88 x 280mm · 2U		
Weight		4.3kg		





ECS-6216P rear panel

ECS-6216S rear panel

DIB-6000: PC USB interface



- The USB interface allows a Windows® PC to communicate with the 6800 System. It converts the PC's USB output into RS-485.
- This means the system can be entirely operated and monitored at distances up to 1km.
- The DIB-6000 features a source input and an adjustablelevel mic input that can be given priority. The Mic input can be used to record announcements on the PC.

Model	DIB-6000
Interface	USB
Communication	RS-485 (Max. 1km)
Operating temperature	-10°C ~ 40°C
Power source	USB 5VDC
Dimensions (LxPxH)	140 x 43 x 140mm
Weight	0,74kg
MIC IN balanced to LINE OUT balance	ced Control of the Co
Sensitivity	-6odB
THD	< 0,5%
Bandwidth	70 to 10,000Hz
Signal / Noise	>50dB
LINE IN unbalanced to LINE OUT ba	lanced
Sensitivity	+1,4dB
THD	< 0,2%
Bandwidth	40 to 20,000Hz
Signal / Noise	>8odB
LINE IN balanced to LINE OUT unba	anced
Sensitivity	+1,4dB
THD	< 0,2%
Bandwidth	40 to 20,000Hz
Signal / Noise	>80dB



Rear panel

PM-9208: speaker line monitor, 8 zones



- It provides audible and visualmonitoring of up to 8 single-channel amplifiers orspeaker lines.
- 8 x 8-segment LED displays monitor up to 8 amplifier outputs or speaker lines, with 5-step attenuation to match different amplifier levels.
- · A built-in speaker allows monitoring of the selected channel and features 4-step attenuation. The speaker is passive (no internal amplifier) and the LED display requires 24VDC (power supply not included).
- 8-Channel Monitor Panel
- 10 Segments LED Meter for Each Channel
- Built-In Monitor Speaker
- · Channel Selector Switches
- LED Indication on Each Switch
- Monitors 8 70/100V Lines
- 24VDC Operation Only
- Rack Mount (2U)
- Power Supply Not Included

Model	PM-9208
Inputs	8 x 100V / 70V
LED display	8 outputs (simultaneous)
Attenuator	5 positions
Output power	Max 1.5W
Frequency response	32 to 16,000
Operating temperature	-10°C ~ 40°C
Power source	24VDC
Dimensions (WxHxD)	482 x 88 x 280mm · 2U
Weight	3,8kg



Rear panel

RME-6108: mic station extension



- Lets you add 8 RM-6800 selective call mic stations.
- 4 RME-6108 can be used for a total of up to 32 stations in the 6800 System.
- Manage station priorities using the system management software.

PUBLIC ADDRESS

Model	RME-6108
Channels	8
Communication	RS-422 (Max. 1km)
Operating temperature	-10°C ~ 40°C
Power source	24VDC
Dimensions (WxHxD)	482 x 44 x 280mm · 1U
Weight	2,8kg



Rear panel

RM-6808: system Mic station

- · Multi-system selective call mic station
- Up to 160 zones or zone groups, plus general calls and chime
- Up to 1 km away from the system with a single CAT5/6 cable, thanks to RS-422 / CAN BUS communication
- Zone group configuration for the 6800/6100 system is carried out directly with the MS-6800 system management software.
- 0 ~ 9 Keys, All, Talk, Chime buttons
- 2.43" OLED display
- Output level indicator
- · Monitoring speaker
- Volume control: MIC / auxiliary input / monitoring speaker / chime
- Balanced odB audio output and 16 dry-contact remote controls for RM-916/RM-616 mode
- DC 24V power input





RM-6800 Rear panel

PP 10x2: 10 inputs/2 outputs preamplifier-mixer



- Rack-mounting preamplifier fitted with 10 inputs and 2 outputs. Each input has a display of modulation presence.
- 10 inputs correspond to the following:
- 6 Mic/Line inputs (CH1 to CH6) which 2 priorities and fitted with a Phantom power supply.
- 4 Line inputs (CH7 to CH10).
- 1 top priority odB input.

- Trim and tonal setting on each input (except CH7 to CH10).
- 2 outputs with 2-band equalization. A bar graph on each output allows to display the modulation level.
- Record output, needful for many applications.
- Possibility of emergency power supply of 24VDC in case of power failure.

Model	PP 10x2
Bandwidth	20 to 20,000Hz
Input sensitivity	6 Mic/Line input balanced -60/0dB 4 unbalanced Line inputs 0dB 1 top priority input 0dB 1 record output 2 balanced outputs 0dB
T.H.D	< 0,2%
Input equalizer	±12dB @ 80Hz, 2.5kHz and 12kHz
Signal / Noise	> 70dB
Power source	230VAC - 50Hz / 24VDC / 16W
Dimensions (WxHxD)	482 x 88 x 320mm · 2U
Weight	5.3kg



Rear panel

CD-6208: multi-sources 6 CDs & USB player



- Professional multi-source USB/CD player with internal
- Plays WAV, MP3, and WMA audio files.
- High-quality storage of up to 6 CDs. Controls are easily accessible on front panel or through the RS-232 port.
- Features output in stereo (XLR and RCA), mono (XLR), coaxial and optical.
- Device is operable using AMX and CRESTRON systems via an RS-232 port.

Model	CD-6208	
Discs and formats	CD / CD-R / CD-RW · Audio CD - MP3 - WMA	
Outputs	2 x XLR L/R - 1 XLR mono - RCA - 2 SPDIF (optical, analog)	
Bandwidth	20 to 20,000Hz ±0.5dB	
T.H.D	< 0.003%	
Signal / Noise	>100dB	
Memories	1 to 5 = 1GB ; 6 = 3GB (total 8GB)	
Consumption power	27	
Power source	230VAC - 50Hz	
Dimensions (WxHxD)	482 x 88 x 280mm · 2U	
Weight	5.3kg	



Rear panel

PB-6207: 24VDC battery charger



• The PB-6207 is a unit for recharging the battery to insure that the battery's maximum charge capacity is achieved.

BATTERY AUTO RECHARGING

It charges with maximum 3A, when it close to full charging (26.4V) the electric current will be reduced up to 10mA~20mA for maintaining a full charging.

· VOLTAGE/CURRENT DISPLAY

Front LCD displays status of power distribution (Voltmeter/ Amperemeter).

• PC MONITORING

The charging voltage and current can be monitored by window program of 6800 System.

Model	PB-6207
Full charge voltage	26.4V
Starting current	3A Max.
Operating temperature	-10°C ~ 40°C
Power source	230VAC · 50/60Hz
Dimensions (WxHxD)	482 x 88 x 280mm · 2U
Weight	6kg



Rear panel

DPS-720S: 720W Class-D digital amp - 100V - 24VDC



- The DPS-720S is a 2U, single channel, 720W power Class-D digital amplifier with over 90% efficiency.
- It allows the reduction of heat dissipation, noise and weight compared to traditional analog amps...
- This amp includes 2 audio inputs, including one priority input to cut the current program so you can broadcast a priority message by dry contact, for example.
- Front-panel LEDs let you see amp status instantly.
- Fitted with a 24VDC supply terminal block for use on booster batteries.

Model	DDC 7000
Model	DPS-720S
RMS Power	720W
Bandwidth (1W, ±3dB)	60 to 20,000Hz
100V impedance	13.9Ω
70V impedance	10,2Ω
Input sensitivity	1V/10kΩ
THD (AES17,1/8 Puissance)	< 0,5%
Signal / Noise (20kHz LPF)	>100dB
Operating temperature	-10°C ~ 40°C
Power source	AC 220 - 240V · 50/60Hz - DC 24V
Consumption	250W
Dimensions (WxHxD)	482 × 88 × 424mm
Weight	7,96kg



Rear panel

ALIM 24VDC 1.25A

220V/24VDC - 1.25A - 30W power supply



- A constant voltage switching power supply necessary for some devices that require an external power supply.
- Connects directly to a mains using a 3-point IEC cable and provides constant 24V voltage for a maximum power of 30W.

Model	ALIM 24VDC 1.25A
Input	90-260VAC
Output	24VDC
Power	30W
Operating temperature	-10°C ~ 70°C
Dimensions (WxHxD)	93 × 35 × 49mm
Weight	275g

Which 6100 System component requires the ALIM 24VDC 1.25A?

Model	ALIM 24VDC 1.25A
ECS-6216S	•
ECS-6216P	•
RME-6108	•
RM-6800	•
PM-9208	•

MXCW Conference System



Total freedom

• The MXCW conference system offers all the features expected of a conference system for up to 125 participants, with the convenience of encrypted digital HF transmission.

• It eliminates the use of cables for off-site meetings, in rooms where seats are not assigned, as well as in listed buildings where it is not possible to pierce the walls or the furniture.

• Proven interference detection and avoidance technology provides reliable transmission without signal loss, and robust encryption of audio signals ensures confidentiality of meeting content.

• Each HF conference unit is powered by an intelligent lithium-ion rechargeable battery, whose residual charge in hours and minutes can be viewed remotely and in real time.



Wireless conference system, complete, reliable, scalable, easy to install.

The system natively integrates **voting management** with 2, 3 or 5 buttons, with display of the result on the chairman station and on the Web interface.





The system has **simultaneous translation** mode and can handle up to 8 channels using dedicated equipment.



Innovative interference detection technology avoids wireless issues before they are even noticed.



Ouick setup

MXCW Conference System

Last minute meetings are inevitable. The MXCW system deploys quickly and self-configures in minutes.



Works in any room

From flexible meeting spaces to high profile historic venues, MXCW goes anywhere your meetings take you.



Nothing else to bring

With only three core system components, MXCW ensures you always have the right equipment for the next important discussion.



Tackle even the most complex meeting needs with onboard features including voting, agenda management, and interpretation.



A dedicated, high-quality loudspeaker at each unit provides clear, intelligible audio for everyone involved.

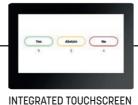
MXCW Conference System components

MXCW640: wireless touchscreen conference unit

- Chairman, Delegate, Ambient Mic, Listener and Remote Caller roles
- Dual Delegate role allows two participants to share one conference unit
- 4.3-inch / 110mm capacitive touchscreen display to view meeting controls, speak/request list,
- 2 channel selectors, each with a 3.5mm headphone jack
- Battery life of up to 11 hours

Shown with MXC416-C 16" Gooseneck Microphone









VIEW VOTING **RESULTS ON SCREENS**

SPEAKER LIST FOR **REAL TIME MEETING** MANAGEMENT



- Controls up to 125 wireless conference units
- Automated frequency coordination
- Interference detection & avoidance
- AES-128 wireless encryption
- Dante[™] digital networking enables routing of 10 audio channels in/out over Ethernet to any Dante-equipped device



MXCW Conference System

SB930: intelligent rechargeable li-ion battery

· Networked Charging Station for up to 10 SB930 batteries

- Fully charges 10 batteries in 4 hours
- Remotely monitor charge levels in hours and minutes
- Integrated test button and 5-segment LED to display charge
- Storage mode protects batteries by storing them at a safe charge level that preserves battery health over time



MXCWNCS-E: networked charging

0

Gooseneck microphones

- · Series of Microflex multipin gooseneck microphones for use with MXCW conference units only.
- · Built-in CommShield® technology provides improved immunity to RF noise emitted by mobile phones or tablets.
- Available Dualflex gooseneck accommodates shared use or standing speakers
- · Choice of 6"/15cm, 16"/40cm, 20"/50cm lengths.
- Built-in bi-color (red/green) LED illuminates when mic is active.
- The standard cardioid directivity ensures precise sound pick-up on the voice, and attenuates the ambient noise of the room. If difficult acoustic conditions require additional directivity control, the mini shotgun capsule is also available.

Monitor and control

MXCW Conference System includes an intuitive and powerful browser-based control interface for management of all system features, including audio levels,RF settings and more.



Adjust audio output levels and route Dante™ audio wherever required. A total of two analog and 10 Dante™ audio channels are available.

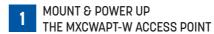


Real time monitoring of wireless system health, channel availability, and frequency management settings give you the confidence for a meeting free of interruptions and lost productivity.

Easy to deploy

- The all-in-one-design of MXCW Conference System means meetings can happen anywhere.
- · Automated frequency coordination with interference detection and avoidance, minimizes any complicated set up. This also enables meetings to run more smoothly without a technician present...
- Setting up your next meeting is as simple as three steps:







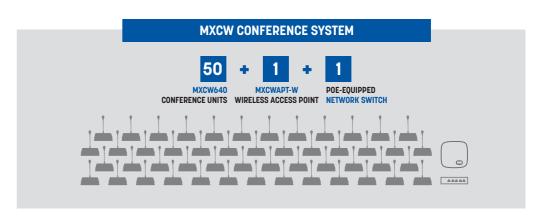
EACH DELEGATE UNIT

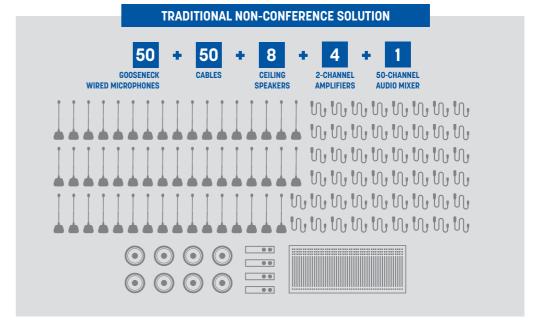


DEPLOY & POWER ON DELEGATE UNITS WHERE NEEDED

Tackle any space

Need to outfit a meeting space with audio the day before a big meeting with 50 people? No problem, with MXCW Conference System. Each participant gets his own microphone, loudspeaker, and control, right in front of him. It is the winning solution compared to the complexity of conventional equipment.



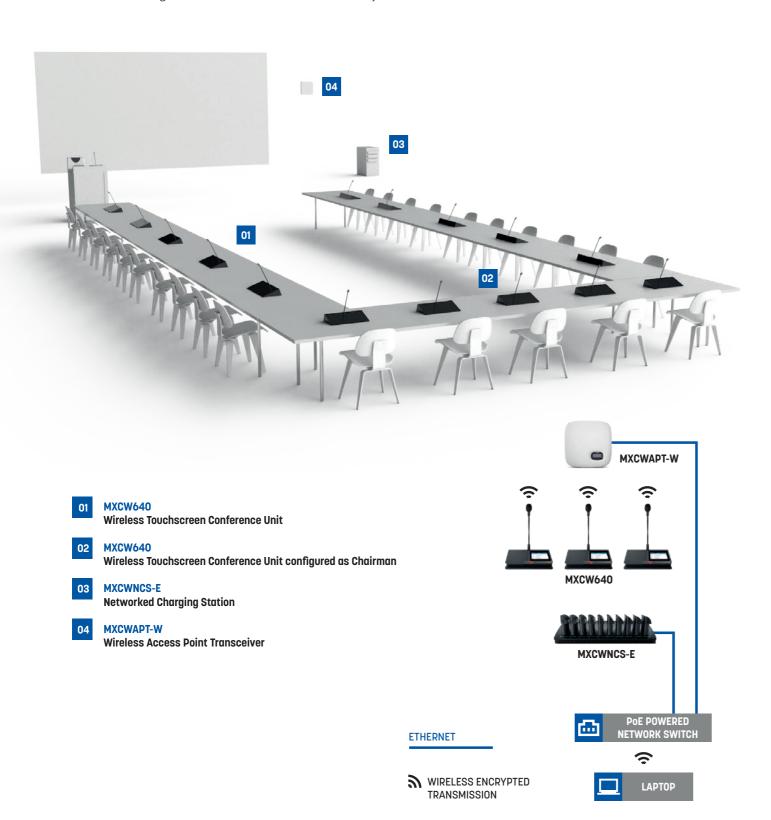


Application: BOARDROOM

PUBLIC ADDRESS

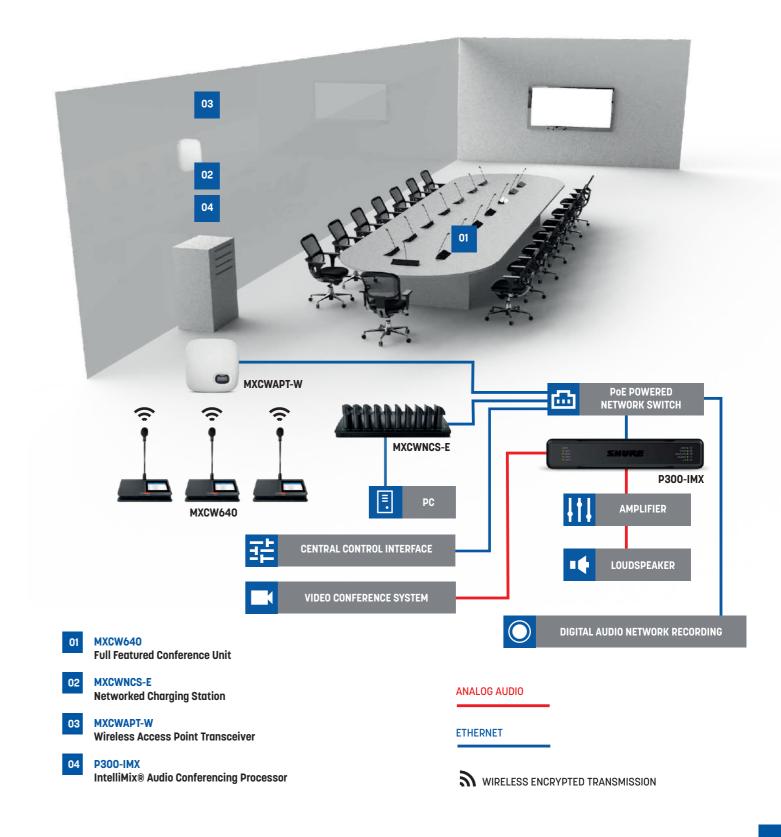
Presentation - Panel Discussion - Q&A

- Off-site meetings can be an expensive waste of time if attendees cannot fully participate in the discussion. Typical in-room sound systems are only designed to amplify the presenter's voice, and miss the contributions of other participants.
- MXCW Conference System is a versatile audio solution that extends full coverage to every attendee without the labor of routing and securing audio cables.
- Network monitoring allows a technician to monitor battery levels from a PC or tablet (IOS/Android).



Discussion - Conferencing - Collaboration - Presentation

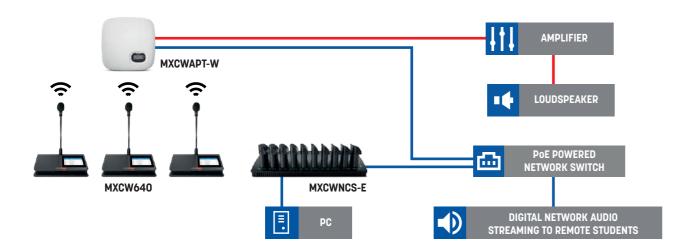
- In boardrooms with long tables, it can be difficult to hear people seated at the far end. With Microflex Complete Wireless, each participant has their own conference unit with an integrated microphone and loudspeaker so that everyone can hear each other perfectly.
- Wireless convenience means there are no holes to drill and the system can be put away when not needed.
- Robust encryption keeps sensitive meeting content secure.



Presentation - Discussion - Remote Campus

- At seminars and training events, attendees need to be able to understand complex information and ask questions comfortably, while the instructor needs to know that learning is successful.
- MXCW Conference System makes it easy for attendees to hear clearly, ask questions, and respond to instructor polls.
- The system can connect to third-party streaming equipment to include remote participants.
- Wireless convenience allows flexible seating to be reconfigured without moving cables.





MXCW640

Wireless Touchscreen Conference Unit

Wireless Access Point Transceiver

MXCWNCS-E

Networked Charging Station

Liaison AUDIO

ETHERNET

WIRELESS ENCRYPTED TRANSMISSION

MXCW640: touchscreen wireless conference station



Wireless digital conference station with high-resolution color touchscreen configurable in modes. chairman, single delegate, double delegate, interpreter, room microphone, listener and outside call.

- · The unit incorporates speaking and function buttons, a gooseneck microphone connector, a loudspeaker, two channel selectors, an NFC card reader and a touch screen allowing numerous functionalities (control of microphone, conference control, voting).
- 4.3"/110mm capacitive touchscreen for voting or viewing speaker information, etc.
- 2 channel selectors, each with a 3.5mm headphone jack.
- · Participant identification by NFC card.
- 3.5mm connector to add an external participant via smartphone.
- Mini-USB port for off-site battery charging.
- Autonomy > 11 h Lithium-Ion SB930 battery included.
- · Audio encryption.

Model	
GOOSENECK MIC INPUT	
Nominal Input Level	-6odBV
Frequency Response	20Hz to 20kHz
THD	0,04% typical
Dynamic Range	112dBA
Equivalent Input Noise	-117dBV (A-weighted), typical
Input Impedance	26kΩ - Unbalanced input
ANALOG AUDIO OUTPUT	
SPEAKER	
Nominal Output Level	72dB SPL @ 0,5m
Maximum Output Level	89dB SPL @ 0,5m 3% of DHT + noise
Frequency Response	220Hz to 15kHz
THD	1% typical
Dynamic Range	94dBA
HEADPHONES OUTPUT	
Maximum Output Level	2,1dBV
Frequency Response	100Hz to 22kHz
THD	0.04%, typical
Dynamic Range	101dBA
Load Impedance	>8Ω, typical
Configuration	Dual mono
Connector	TRRS 3,5mm Jack
RF	
WLAN Standard	IEEE 802.11a,g
RF Frequency Bands	5GHz U-NII 1, U-NII 2 D.F.S & U-NII 2 Extended D.F.S.
Output Power	1mW (Low), 5mW (Medium), 13mW (High), 25mW (Max)
Antenna Type	Internal Bi-level Dual-Band PIFA

MXCW640	
POWER	
Battery Type	SB930 - Lithium-Ion
Voltage	3V to 4,2V
Capacity	35Wh - 9600mAh
USB	
Input voltage range	4,5 to 5,5V
Power consumption	Maximum 10W
Recommanded cable	28 AWG/1 P + 22 AWG/2 C, < 1.5 m
USER INTERFACE	
Display Type	Color TFT LCD with Capacitive TouchScreen
Display Size	4.3" (109.2mm)
Display Resolution	480 x 272 (128 ppi)
MECHANICAL	
Dimensions (WxHxD)	257,5 x 70,2 x 148mm
Weight	1.21kg with battery
Material	Molded Plastic, Die Casted Aluminmum



MXCW Conference System components

SB930: rechargeable battery for conference station

- The SB930 rechargeable battery powers the MXCW640 wireless conference unit for over 11 hours.
- · LED indicators on the battery show charging status quickly and
- · Charging in the MXCWNCS-E network charging station takes only 1.5 hours for a 50% charge and 4 hours for a 100% charge.
- Included with MXCW640
- · 3-cell battery with Smart Lithium-Ion technology
- Remote monitoring of remaining battery life in hours and minutes



Model	SB930
Material	Molded plastic
Dimensions (WxHxD)	65 x 101,5 x 31mm
Weight	184g

MXCWNCS-E: 10-batteries networked charging station



- The MXCNCS is a network charging station allowing the charging of ten Lithium-Ion SB930 batteries in four hours.
- It has LED bargraphs displaying the charge status of each battery and an RJ45 port for controlling the charge remotely.
- Charge 10 batteries to 50% in 1.5 hours, to 100% in 4 hours.
- · Storage mode to extend battery life when system is not
- · Rack or wall mounting kit included.

Model	
NETWORK	
Interface	Ethernet Gigabit - Dante digital audio
Speed	10 / 100Mbps
Addressing Capability	DHCP or Manual IP address
Cable Type	Cat5e or upper
Connector	1x RJ45
LED	Status (Green) / Link Speed (Amber)

MXCWNCS-E	
USER INTERFACE	
Charge	5 LEDs per bay for charging indication
Ethernet	2x LED
Status	1x LED - Power, Reset, Network Reset, Storage Mode
MECHANICAL	
Dimensions (WxHxD)	438,9 x 72,4 x 193,5mm
Weight	2,825kg
Material	Molded Plastic, Steel
Mounting Type	Tabletop, wall mount or rack (4U rackspace required)



MXCWAPT-W: wireless access point transceiver

- The MXCWAPT-W access point manages audio routing, frequency coordination and system control for up to 125 MXCW640 wireless conference units.
- Thanks to its real-time frequency scanner, it automatically selects the best channel in the 2.4 GHz and 5 GHz frequency bands (including the spectrum subject to DFS) and switches the channels to avoid any potential interference.
- The access point has both Dante™ and analog audio inputs and outputs, and uses a single Ethernet connection for power, audio, and control.
- Bidirectional HF link allowing audio channels to be transported in both directions and ensuring real-time control of all parameters.
- · AES-128 encryption to ensure the confidentiality of mee-
- Dante[™] digital network with 10 inputs and 10 outputs.
- · Analog audio input and output on XLR.
- Built-in matrix for managing Dante[™] and analog inputs/ outputs; Management of groups of MXCW640 stations.
- High-cut, low-cut and AGC filters available on each input.



PUBLIC ADDRESS

Model		
ANALOG AUDIO INPUT		
Maximum Input Level	24,9dBV Line - odB Gain	
Muximoni inpot Level	10,3dBV Aux - odB Gain	
Frequency Response	22Hz to 20kHz	
THD	0,03% typical Line - 0dB Gain	
Dynamic range	115dBA / 112dBA Line/Aux - odB Gain	
Connector	XLR-3-pin female	
ANALOG AUDIO OUTPUT		
Maximum Output Level	4,3dBV (Dante & analog Gain odB)	
Frequency Response	1Hz to 20kHz	
THD	0,01 % typical	
Dynamic range	100dBA (Dante & analog Gain odB)	
Load Impedance	> 600Ω	
Connector	XLR-3-pin male	
RF		
WLAN Standard	IEEE 802.11a,g	
RF Frequency Bands	2,4GHz ISM - 5 GHz U-NII 1, U-NII 2 D.F.S & U-NII 2 Extended D.F.S.	
Output Power	1 mW (Low), 5 mW (Medium), 13 mW (High), 25 mW (Max)	
Antenna Type	Internal Bi-level Dual-Band PIFA	
NETWORK		
Interface	Ethernet Gigabit - Dante digital audio	
Link Speed	10 / 100 / 1000Mbps	
Addressing Capability	DHCP or Manual IP address	
Cable type	Cat5e or upper	
Connector	1x RJ45	
LED	Status (Green) / Link Speed (Amber)	

MXCWAPT-W	
POWER	
Туре	PoE (Power over Ethernet), Class 0
Power consumption	12.95W (max), 6.5W (typical)
USER INTERFACE	
Display Type	Monochrome FFSTN LCD
Display Size	46,7 x 18,8mm
Display Resolution	152 x 78 (78ppi)
LED Status Indication	Power, Network Audio, RF
Reset	Pushbutton for Network/Factory Reset
MECHANICAL	
Dimensions (WxHxD)	242,5 × 47,8 × 241,8mm
Weight	1.15kg
Material	Molded Plastic, Die-casted Aluminum
Mounting Type	Wall or ceiling bracket



MXCW Conference System components

Gooseneck microphones for MXCW640 station



MCXW640	equipped	with	MXC406-MS gooseneck	

Model	MXC406-MS	MXC416-C	MXC416DF-C	MXC420-C	MXC420DF-C
Capsule	Mini Shotgun	R185B Cardioid			
Connector	Microflex multipin				
Hose	15cm	40cm	DualFlex 40cm	50cm	DualFlex 50cm
Delivered with windscreen	no	yes			

FLIGHT-MXCW-T10

Flight touring for 10 MXCW stations

- Flight case specially designed for the MXCW wireless conference system.
- It can contain 10 stations equipped with their gooseneck, the access point, the charger with mains pre-cabling, and the cabling.
- A roller tray is available as an option.





FLIGHT-MXCW-I10 FLIGHT-MXCW-I20

Flights installation for 10 ou 20 MXCW stations

- Wheeled flight cases specially designed for the fixed installation of the MXCW wireless conference system.
- Their design makes it easy to move the system from one room to another when necessary.
- They contain several drawers for storing 10 sets (FLIGHT-MXCW-I10) or 20 MXCW sets (FLIGHT-MXCW-I20), equipped with their gooseneck, access point, chargers and cabling.



PUBLIC ADDRESS

ACOUSTIC



Omnidirectional speaker

- Recognized since 1992 and protected by an international patent, so far the omnidirectional speakers created by MAJORCOM have not been equalled by any other speaker as regards to fitting large areas with PA particularly in the large-scale industry.
- Faced with marketing catch phrases such as "directional loudspeaker with an exceptional coverage surface", "wide-dispersion sphere", "space technology speaker" and "wide-dispersion and ceiling mounted and...directional speaker", MAJORCOM had to re-establish the reality of physics laws on sites.
- Thus, we were led to carry out comparison tests between the most famous trade names products. Those tests were performed under the same setting up conditions.
- The efficiency of MAJORCOM omnidirectional products was confirmed upon the three following points: **Sound quality:** a quality sound can be played without any kind of device,

Homogeneous coverage: the patented reflector is the obvious and most efficient solution to reach a homogeneous and substantial coverage surface,

Optimal intelligibility: the RASTI measures showed that our products met the intelligibility requirements in any kind of situation.

- Thus, it could have been noted that the sound projector-typed products, spheres or usual ceiling-mounted speakers defined as having exceptional coverage capacities keep on being directional products with a low dispersion capacity.
- Therefore, using such products for substantial areas produce public address systems with successions of "surges", and "gaps" to the detriment of the listening comfort and intelligibility.

Qualities of omnidirectional speakers

GROUND COVERAGE

- · For the same power and set up at the same height, these speakers (figure S1) guarantee a 3 to 5 times wider coverage than standard speakers, sound projectors, spheres, etc. (figure S2).
- Thanks to their original design and the presence of a reflector, these speakers are provided with a 360° horizontal and 160° vertical directivity.



S1

OMNIDIRECTIONALITY AND REVERBERATION

- · To improve intelligibility in a reverberating environment, the speaker-listener distance has to be reduced.
- · Now, the distribution of the sound energy in a large diffusion angle enables to bring the omnidirectional speakers closer to the listeners without bothering them. This is absolutely not the case for standard directional speakers.

QUALITY OF THE SOUND MESSAGE

- The intelligibility of a sound message is up to 60% provided by treble frequencies.
- · With standard speakers, trebles are present with other frequencies only over a small ground surface (S2).
- For the omnidirectional speakers, treble frequencies are distributed as well as other frequencies, over the whole S1 surface which is 3 to 5 times higher than S2.



IMC 300T/VA

2-way Omnidirectional speaker - 30W LEN 54 24

Patented omnidirectionality

Created by MAJORCOM and protected by an international patent, this powerful omnidirectional speaker is specifically adapted to the sound systems of large and very large volumes with loud noise levels: shopping centres, sports halls, ice rinks, swimming pools, airports, etc. Equipped with a heavy-duty, 16cm 2-way speaker and 30W a high-performance 100V line transformer, the IMC 300T/VA has a near Hi-Fi quality.

AUDIO QUALITY

It broadcasts quality sound without any frills.

SOUND COVERAGE

The patented reflector has earned the reputation of being the most efficient solution for achieving a large and homogeneous coverage zone (3 to 5 times larger than traditional enclosures, sound projectors, etc.).

OPTIMAL INTELLIGIBILITY

RASTI measurements have shown that our products respond in all cases to the intelligibility requirements of safety standard EN-5424 (Type A).

• 3 steel mounting slings (80cm) make it possible to suspend it securely.

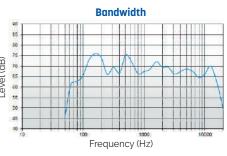
• Optional specific RAL painting available : PEINT OMNI (minimum 6 pcs).

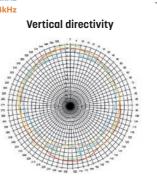
Model	IMC 300T/VA
Body & grill	Metal
Nominal power	30W
Nominal Impedance	330Ω
Power 100V Line	30/20/10W
Impedance	330/500/1,000Ω
Bandwidth	60Hz - 20kHz
Sensitivity (1W/1m)	84dB
SPL MAX 1m	98.8dB
Directivity (H-V) @ 500Hz	360° - 360°
Directivity (H-V) @ 1kHz	360° - 360°
Directivity (H-V) @ 2kHz	200° - 200°
Directivity (H-V) @ 4kHz	275° - 275°
Speaker	6.5" - 2 ways
Cone	Protected paper
Dimensions [mm]	Ø480/Ø370 x (H)260
Weight	4.5kg
Operating temperature	-15 to +55°C
Protection Index	IP54
Color	White



PUBLIC ADDRESS







1kHz

2kHz

Horizontal directivity

IMC 250T EN

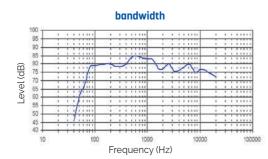
2-way omnidirectional spherical speaker - 30W

SOUND COVERAGE

The patented reflector has earned the reputation of being the most efficient solution for achieving a large and homogeneous coverage zone (3 to 5 times larger than traditional enclosures, sound projectors, etc.).

• Public address for large surface areas such as hypermarkets, halls, shopping centres, multi-purpose rooms...





Model	IMC 250T EN
Speaker	6.5" - 2-way
Body and reflector	ABS / Metal
Nominal power	30W
Peak power	40W
100V line power	10/20/30W
Bandwidth	70 to 20,000Hz
Sensitivity 1W / 1m	90dB
Directivity @ 1kHz	360° horizontal / 160° vertical
Recommended height of installation	4m
Average coverage	200m² @ 4m high
Dimensions (mm)	parabol: Ø 400 / Ø 250 - H 250
Weight	3.5kg
EN Norm standard	60849

CSE 56T VA

6W Ceiling Speaker EN 54 24

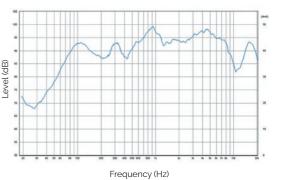
- The 6W powered speaker is equipped with a 130mm full-range loudspeaker and a 100V transformer with 3 power adjustments 6W, 3W and 1.5W.
- Thanks to an innovative air flow system, the CSE 56T VA provides sound characteristics which are attributed to a conventional bass
- An extremely flat construction method allows a low mounting depth of only 70mm, with less than 1kg product weight.
- For additional reliability the speaker is impregnated against wetness.
- Quick and easy mounting with spring clamps and short tension distance. Perfectly suitable for installations where the installation depth is very limited. This speaker is suitable for a ceiling strength of about
- Optional specific RAL painting available : **PEINT PLAFONNIER** (minimum 25 pcs).
- Optional metalic fire dome available: FD CSE 56T VA

Model	CSE 56T VA
Speaker	5"
Body & grill	Metal, plastic PET contact protection
Nominal power	6W
Nominal Impedance	666Ω
Power 100V Line	6/3/1,5W
Impedance	1,667 / 3,333 / 6,667Ω
Bandwidth	104 - 17,200Hz
Sensitivity (1W/1m)	86,8dB
SPL MAX 1m	98,3dB
Directivity (H-V) @ 500Hz	180°
Directivity (H-V) @ 1kHz	180°
Directivity (H-V) @ 2kHz	140°
Directivity (H-V) @ 4kHz	85°
Cone	Coated paper
Dimensions	Ø 181,5 x D 65mm (181,5 x 91,5mm fire dome)
Ceiling Cut-out	Ø 156mm
Weight	0,51kg (0,71kg with fire dome)
Operating temperature	-10°C / +55°C
Protection Index	IP 21C
Color	RAL 9016

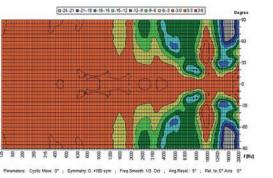








Polar diagrams



P 101T

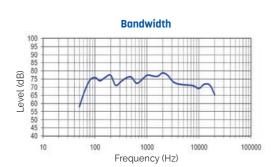
1-way ceiling speaker 6W

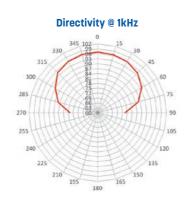
- ullet Ceiling speaker with high quality 100V transformer integrating most decorations.
- The sound quality and the price make this product an element of choice to achieve a so-called economical sound system.











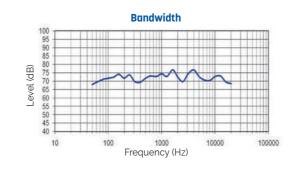
Model	P 101T
Speaker	4"
Body & grill	ABS / Metal
Nominal power	6W
Peak power	10W
100V line power	3/6W
Bandwidth	85 to 15,000Hz
Sensitivity 1W / 1m	87dB
Directivity @ 1kHz	90°
Dimensions (Ø x D)	174 x 60mm
Ceiling Cut-out	Ø 155mm
Weight	0,5kg

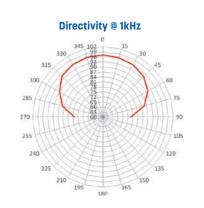
P 25T

1-way ceiling speaker 15W for wet places

- ABS ceiling lights fitted with a plastic loudspeaker, specially adapted for sound systems in bathrooms, swimming pools, saunas, etc.
- Supplied with a remote 100V line transformer in an IP 55
- Optional specific RAL painting available : **PEINT PLAFONNIER** (minimum 14 pcs).







Model	P 25T
Speaker	5" - Plastic
Body & grill	ABS
Nominal power	15W
100V line power	5/7/15W
Bandwidth	50 to 20,000Hz
Sensitivity 1W / 1m	82dB
Directivity @ 1kHz	90°
Dimensions (Ø x D)	190 x 90mm
Ceiling Cut-out	Ø 145mm
IP 55 Box dimensions	80 x 80 x 50mm
Weight	HP: 0,450kg - Box: 0,500kg

P 25

30W - 8 Ω 1-way ceiling speaker for wet places

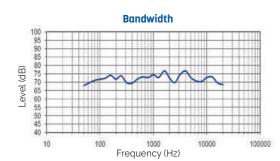
- ABS ceiling lights fitted with a plastic loudspeaker, specially adapted for sound systems in bathrooms, swimming pools, saunas, etc.
- Optional specific RAL painting available : **PEINT** PLAFONNIER (minimum 14 pcs).

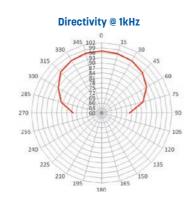












Model	P 25
Speaker	5" - Plastic
Body & grill	ABS
Nominal power	30W
100V line power	40W
Bandwidth	50 to 20,000Hz
Sensitivity 1W / 1m	82dB
Directivity @ 1kHz	90°
Dimensions (Ø x D)	190 x 90mm
Ceiling Cut-out	Ø 145mm
Weight	0,450kg

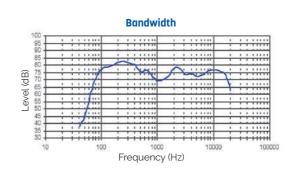
EC 6 **6W Ceiling Speaker**

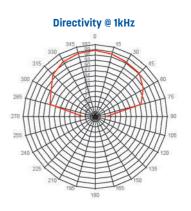
- Ceiling speaker with high quality 100V line transformer fits in most decorations.
- Its fixation allows it to be easily mounted on 35mm walls or ceilings.











Model	EC 6
Speaker	5" - Bicone
Body & grill	Metal / Epoxy
Nominal power	6W
Peak power	10W
Power 100V Line	15/3/6W
Bandwidth	90 to 16,000Hz
Sensitivity (1W/1m)	godB
Directivity @ 1kHz	90°
Dimensions (Ø x D)	200 x 75mm
Ceiling Cut-out	Ø 165mm
Weight	1,3kg

EC 6TC

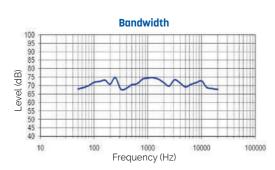
2-way ceiling speaker 20W - 100V - 8Ω

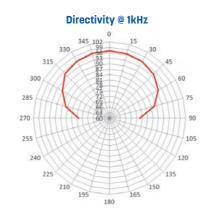
 Ceiling speaker with a fireproof cover fitted with a 5" diameter 2-way plastic loudspeaker and a 100V line transformer.











Model	EC 6TC
Speaker	5" - 2-way
Body & grill	ABS / Metal
Nominal power	20W
Peak power	30W
100V line power	2.5/5/10/20W - 8Ω
Bandwidth	100 to 20,000Hz
Sensitivity 1W / 1m	89dB
Directivity @ 1kHz	90°
Dimensions (Ø x D)	203 x 145mm
Ceiling Cut-out	Ø 170mm
Weight	1,8kg

P 802T-W

2-way ceiling speaker 20W - 16 Ω - White P 802T-B

P 802T-W black edition

- Loudspeakers with an 8" enforced polypropylene woofer and 1" tweeter for an exceptional sound reproduction. These speakers are ideal for the distribution of microphone calls and background music at a higher volume level.
- Thanks to a steel grill and ABS housing, they can fit in most of interior. With their 100V transformer line with 2.5/5/10/20W power taps and a 16 Ω connection, you can adjust the SPL level for all applications you need.
- Easy to install with only 3 screws and a magnetic grill.



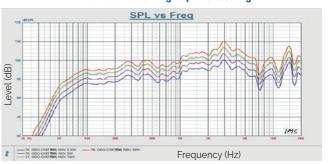




Bandwidth and impedance



Bandwidth according to power setting



Model	P 802T-W / P 802T-B
Speaker	Woofer: 8" polypropylene + tweeter 1"
Body & grill	ABS plastic and steel
Nominal power	30W
Peak power	45W
100V line power	2.5 / 5 / 10 / 20W - 16Ω
Bandwidth	50 to 20,000Hz
Sensitivity 1W / 1m	88dB
Directivity @ 1kHz	180°
Dimensions without grill (Ø x D)	272 x 105mm
Ceiling Cut-out	Ø 248mm
Weight	1,86kg

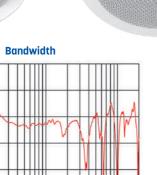
P 515T VA

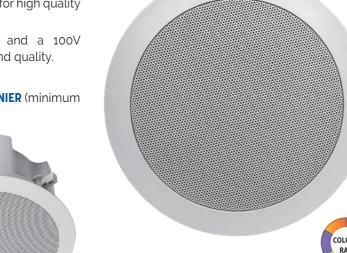
2-Way Ceiling Speaker - 15W LEN 54 24

- P 515T VA is a 2 way bass reflex ceiling speaker suitable for high quality installation.
- Fitted with a 5" speaker, a neodymium tweeter and a 100V transformer with 4 power taps, it offers a very high sound quality.
- Easy installation via screw mounting system.
- Optional specific RAL painting available : **PEINT PLAFONNIER** (minimum 25 pcs).

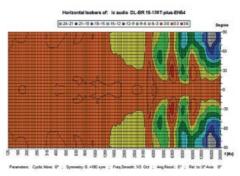








Polar diagrams



Model	P 515T VA
Body & grill	ABS
Nominal power	15W
Nominal Impedance	667Ω
Power 100V Line	15 / 7.5 / 3.75 / 1.9W
Impedance	667 / 1,333 / 2,667 / 5,263Ω
Bandwidth	100 - 22.800Hz
Sensitivity (1W/1m)	86,2dB
SPL MAX 1m	g8dB
Directivity (H-V) @ 500Hz	180°
Directivity (H-V) @ 1kHz	180°
Directivity (H-V) @ 2kHz	145°
Directivity (H-V) @ 4kHz	95°
Speaker	5"
Dimensions (mm)	Ø 213 x P 152
Ceiling Cut-out	Ø 178mm
Weight	1,73kg
Operating temperature	-10°C ~+55°C
Protection Index	IP 21C
Color	RAL 9016

P 630T VA

2-Way Ceiling Speaker - 30W EN 54 24

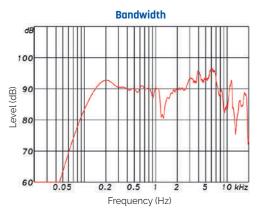
- P 630T VA is a 2 way bass reflex ceiling speaker suitable for high quality installation.
- Fitted with a 6.5" speaker, a neodymium tweeter and a 100V transformer with 4 power taps, it offers a very high
- Easy installation via screw mounting system.
- Optional specific RAL painting available : **PEINT** PLAFONNIER (minimum 14 pcs).



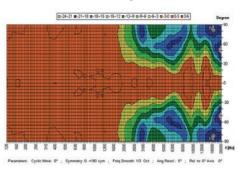




Model	P 630T VA
Body & grill	ABS
Nominal power	30W
Nominal Impedance	333Ω
Power 100V Line	30 / 15 / 7.5 / 3.75W
Impedance	333 / 667 / 1,333 / 2,667Ω
Bandwidth	87 - 19,300Hz
Sensitivity (1W/1m)	8g,8dB
SPL MAX 1m	110,2dB
Directivity (H-V) @ 500Hz	180°
Directivity (H-V) @ 1kHz	180°
Directivity (H-V) @ 2kHz	115°
Directivity (H-V) @ 4kHz	62°
Speaker	6.5"
Dimensions (mm)	Ø 239,5 x D 176,5
Ceiling Cut-out	Ø 210mm
Weight	2,27kg
Operating temperature	-10°C ~+55°C
Protection Index	IP 21C
Color	RAL 9016



Polar diagrams



P 860T VA

2-Way Ceiling Speaker - 60W EN 54 24

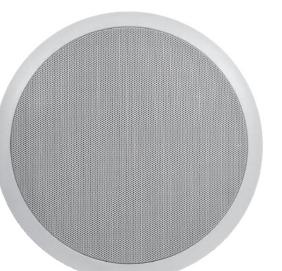
- P 860T VA is a 2 way bass reflex ceiling speaker suitable for high quality installation.
- Fitted with a 8" speaker, a neodymium tweeter and a 100V transformer with 4 power taps, it offers a very high sound
- Easy installation via screw mounting system.
- Optional specific RAL painting available : **PEINT** PLAFONNIER (minimum 14 pcs).

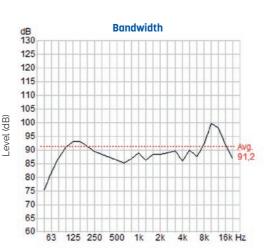




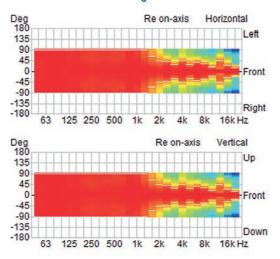


Model	P 860T VA
Body & grill	Metal
Nominal power	6oW
Nominal Impedance	167Ω
Power 100V Line	60 / 30 / 15 / 7.5W
Impedance	167 / 333 / 667 / 1,333Ω
Bandwidth	50 - 24,000Hz
Sensitivity (1W/1m)	91,2dB
SPL MAX 1m	110,7dB
Directivity (H-V) @ 500Hz	180°
Directivity (H-V) @ 1kHz	165°
Directivity (H-V) @ 2kHz	130°
Directivity (H-V) @ 4kHz	80°
Speaker	8"
Dimensions (mm)	Ø 319 x D 254
Ceiling Cut-out	Ø 302mm
Weight	4.7kg
Operating temperature	-10°C ~+55°C
Protection Index	IP 21C
Color	RAL 9016





Polar diagrams



P 325T

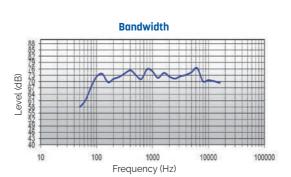
2-way fiberglass ceiling speaker - 15W

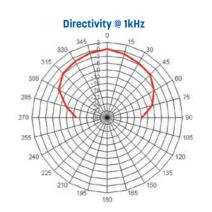
• Ceiling speaker equipped with a 6.5" 2-way fibreglass loudspeaker and a 100V high quality transformer.











Model	P 325T
Speaker	6.5" - 2-way - fiberglass
Body & grill	ABS / Aluminium
Nominal power	15W
100V line power	5/7.5/15W
Bandwidth	90 to 16,000Hz
Sensitivity 1W / 1m	87dB
Directivity @ 1kHz	90°
Dimensions (Ø x D)	226 x 115mm
Ceiling Cut-out	Ø 194mm
Weight	1,5kg

CS-430F

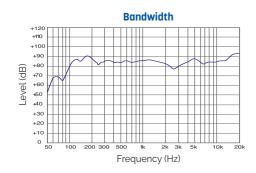
2-way bass reflex ceiling speaker - 30W - 8 Ω

- 2-way bass reflex ceiling speaker with premium grade 4" transductor, 1/2" dome tweeter and 100V transformer.
- Transformer taps rotary switch directly reachable under the front grill.
- Graceful design and easy installation.
- Suitable for high quality installation as: conference room, exhibition room, restaurant...









Model	CS-430F
Speaker	4" - 1/2" dome Tweeter
Body & grill	ABS
Nominal power	30W
Peak Power	30W
100V line power	7.5/15/30W - 8Ω
Frequency response	100 to 20,000Hz
Sensibility 1 W / 1 m	84dB
Power tap	Euroblock Terminal
Dimensions (Ø x D)	230 x 168mm
Ceiling Cut-out	Ø 205mm
Weight	1,8kg

PSUB 120T

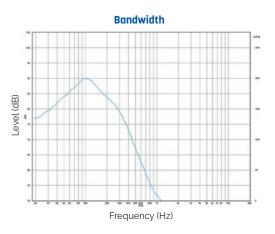
120W Ceiling subwoofer

- This 120W powered subwoofer is equipped with a 200mm highperformance system featuring 4 power adjustments 120/60/30/15W.
- PSUB 120T offers an amazing deep bass response which gives your voice alarm installation a rich sound quality.
- Power tappings are easily set at the front of the speaker, a low impedance operation at 40hm is also possible. The crossover frequency is set to 135Hz. You can change the phase 180° by a switch at the front. To make things perfect the metal housing in RAL 9016 guarantees long-term durability.
- Protection class IP 21C secures the speaker against the risks of environmental influences. The speaker chassis is impregnated against wetness. Easy installation via screw mounting system. Perfectly suitable for installations where high sound quality is demanded.
- Optional specific RAL painting available : PEINT PLAFONNIER (minimum 14 pcs).









Model	PSUB 120T
Body & grill	ABS / Metal
Nominal power	120W
Nominal Impedance	83Ω
Power 100V Line	120 / 60 / 30 / 15W
Impedance	83 / 167 / 333 / 667Ω - 4Ω
Bandwidth	32 - 280Hz
Sensitivity (1W/1m)	87dB
SPL MAX 1m	107,8dB
Dimensions (mm)	Ø 319 x P 250
Ceiling Cut-out	Ø 302mm
Weight	6,4kg
Operating temperature	-10°C ~+55°C
Protection Index	IP 21C
Color	RAL 9016

Wall-mount speaker

M-INVISI-10W

10W Lay-In Ceiling-Tile Speaker



- Build-in speaker for false ceilings
- Invisible (hidden speaker)
- Tool-free ultra-fast Installation (< 2 minutes)
- Modular (easy to move)
- Standard dimensions : 600 x 600 mm ceiling tile
- Monobloc ceiling tile structure



• Thanks to its invisible design, the M-INVISI-10W speaker fits in harmoniously into any space while delivering high-quality sound.

- Installation is child's play, with an ultra-fast, tool-free method taking less than 2 minutes!
- With standard dimensions (600 x 600 mm),

M-INVISI-10+W adapts easily to most ceiling configurations, ensuring maximum compatibility.

- Its modular design makes it easy to move to suit your needs.
- The one-piece structure ensures a solid and secure installation, guaranteeing long-term durability.



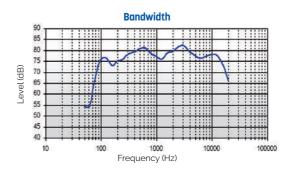
Model	M-INVISI-10W
Nominal power	10 W
Power 100V Line	10 / 6 / 3 W
Frequency range	70 Hz to 20 kHz
SPL (1W/1m)	94 dB
Directivity (-6dB)	166°
Color	White
Material	Metal
Dimensions	600 x 600 mm
Weight	3,8 kg
Connector	Screwless connectors

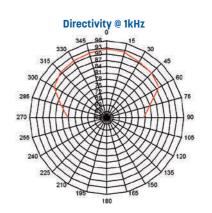
CB 200W

4W wood enclosure wall-mount speaker

- Excellent sound quality
- Easy to install
- Durable
- Multi tapping available with volume control







Model	CB 200W
Speaker	1 way - bicone
Body & grill	Wood / Fabric
Nominal power	4W
100V line power	0,125/0,25/0,5/1/2/4W
Bandwidth	100 to 15,000Hz
Sensitivity 1W / 1m	93dB
Directivity @ 1kHz	100°
Dimensions (WxHxD)	250 x 200 x 88mm
Weight	1,83kg

Wall-mount speakers

CB 56T VA

6W Wall mount Speaker

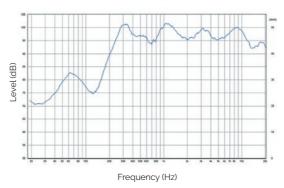
EN 54 24

- The 6W powered speaker is equipped with a 165mm fullrange loudspeaker and a 100V transformer with 3 power adjustments 6/3/1.5W.
- The high-density, shock-resistant MDF wood housing in white provides a low resonance sound. A sturdy front grille made of steel guarantees enduring stability.
- For additional reliability, a 2 pin-ceramic block, a thermal fuse is provided and the speaker chassis is impregnated against
- The speaker is also secured with the high protection class IP54 against the security risks of environmental influences.
- The proven spring clamp on the rear plate ensures a quick mounting on walls.

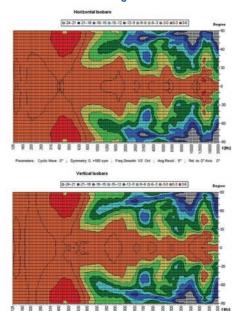


Model	CB 56T VA	
Body & grill	MDF, Steel	
Nominal power	6W	
Nominal Impedance	1,667Ω	
Power 100V Line	6 / 3 / 1.5W	
Impedance	1,667 / 3,333 / 6,667Ω	
Bandwidth	197 - 21 900Hz	
Sensitivity (1W/1m)	93dB	
SPL MAX 1m	100.8dB	
Directivity (H-V) @ 500Hz	180°	
Directivity (H-V) @ 1kHz	160°	
Directivity (H-V) @ 2kHz	125°	
Directivity (H-V) @ 4kHz	89°	
Speaker	5"	
Cone	Paper	
Dimensions (WxHxD)	254 x 195 x 81mm	
Weight	1,95kg	
Operating temperature	-10 to +55°C	
Protection Index	IP54	
Color	White	

Bandwidth



Polar diagrams



BB 202T - BB 202TB

2-way Wall mount Speakers - 15W/100V - 20W/8 Ω

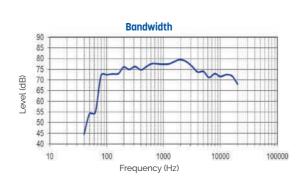
- These Hi-Fi quality 2-way wall speakers are appropriate for broadcasting music and voice in small and medium-sized installations: reception halls, restaurants, pubs, meeting rooms, shopping malls...
- They are equipped with a swiveling fastener, clip-type terminals and a 100V line or 8Ω power selector.

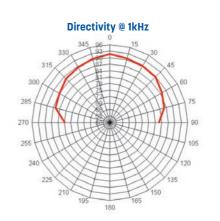




BB 202T (White)

BB 202TB (Black)





Model	BB 202T / BB 202TB
Speaker	4" + tweeter
Body & grill	ABS / Metal
Nominal power	15W
Peak power	30W
100V line power	5/7/15W · 20W 8Ω
Bandwidth	80 to 18,000Hz
Sensitivity 1W / 1m	88dB
Directivity @ 1kHz	110°
Dimensions (WxHxD)	130 x 190 x 115mm
Weight	1,7kg

BB 501W - BB 501B

2-way Wall mount Speakers - 30W - 100V - 8Ω

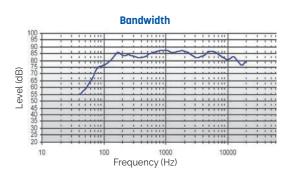


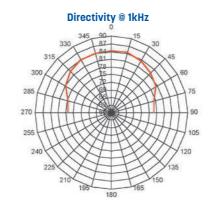




BB 501B (Black)

- These Hi-Fi quality 2-way wall speakers are appropriate for broadcasting music and voice in small and mediumsized installations: reception halls, restaurants, pubs, meeting rooms, shopping malls...
- They are equipped with a swiveling fastener, clip-type terminals and a 100V line or 8Ω power selector.
- They can be installed both indoors and outdoors.

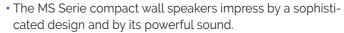




Model	BB 501W / BB 501B		
Speaker	5" - Plastic Diaphram + tweeter		
Body & grill	ABS / Aluminium		
Nominal power	30W		
Peak power	45W		
100V line power	5/10/20/30W·8Ω		
Bandwidth	63 to 20,000Hz		
Sensitivity 1W / 1m	91dB		
Directivity @ 1kHz	95° H x 165° V		
Dimensions (WxHxD) (mm)	155 x 261 x 170/200 with bracket		
Weight	1,7kg		

MS 530TB VA - MS 530TW VA

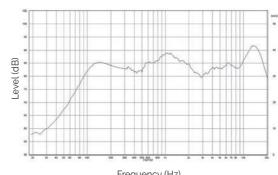
2-way Wall mount Speakers - 30W EN 54 24



- Perfectly suitable for installations where high sound quality is
- The 30W powered speaker is equipped with a high quality 2-way system and a 100V transformer with 3 power adjust-
- The impact-resistant, UV-resistant ABS plastic housing assures enduring stability.
- For additional reliability, a thermal fuse and a wetness impregnation of the speaker is provided.
- The speaker is also secured with protection class IP 65 against the risks of environmental influences.

Model	MS 530TB VA - MS 530TW VA
Body & grill	ABS
Nominal power	30W
Nominal Impedance	333Ω
Power 100V Line	30 / 15 / 7.5/ 3.75W
Impedance	333 / 667 / 1,333 / 4,000Ω
Bandwidth	50 - 23 500Hz
Sensitivity (1W/1m)	85dB
SPL MAX 1m	105,6dB
Directivity (H-V) @ 500Hz	360° - 360°
Directivity (H-V) @ 1kHz	200° - 160°
Directivity (H-V) @ 2kHz	130° - 100°
Directivity (H-V) @ 4kHz	120° - 40°
Speaker	5"
Dimensions (WxHxD)	160 x 262 x 153 mm
Weight	2,5kg
Operating temperature	-25°C ~+70°C
Protection Index	IP 65 - IK 09
Color	MS 530TB VA: Black / MS 530TW VA: White

Bandwidth



Frequency (Hz)

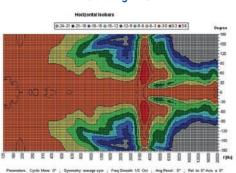


MS 530TB VA (Black)



MS 530TW VA (White)

Polar diagrams



D-24-21 m-21-18 m-18-15 D-15-12 m-12-9 m-8-6 D-6-3 m-30 m03 m36

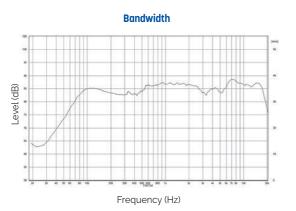
MS 650TB VA - MS 650TW VA

2-way Wall mount Speakers - 50W EN 54 24

- The MS Serie compact wall speakers impress by a sophisticated design and by its powerful sound.
- needed..
- system and a 100V transformer with 3 power adjustments.
- enduring stability.
- tion of the speaker is provided.



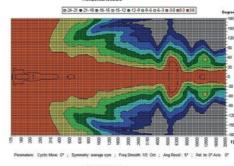
Model	MS 650TB VA - MS 650TW VA
Body & grill	ABS
Nominal power	50W
Nominal Impedance	200Ω
Power 100V Line	50 / 25 / 12,5 / 6,25W
Impedance	200 / 400 / 800 / 1600Ω
Bandwidth	52 - 25,000Hz
Sensitivity (1W/1m)	88,8dB
SPL MAX 1m	105,1dB
Directivity (H-V) @ 500Hz	360° x 360°
Directivity (H-V) @ 1kHz	200° x 155°
Directivity (H-V) @ 2kHz	110° x 120°
Directivity (H-V) @ 4kHz	80° x 25°
Speaker	6"
Dimensions (WxHxD)	205 x 330 x 192 mm
Weight	3,65kg
Operating temperature	-25°C ~+70°C
Protection Index	IP 65 - IK 09
Color	MS 650TB VA: Black / MS 650TW VA: White

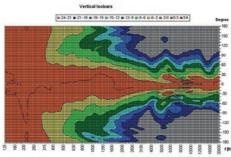




MS 650TW VA (White)

Polar diagrams





WS-15T/W-30T/W-50T/W-80T/W

Indoor/outdoor compact wall mount speakers 15-30-50-80W - 8 Ω - white

WS-15T/B-30T/B-50T/B-80T/B

WS-15/W-30T/W- 50T/W- 80T/W black editions











• WS Series is the Installation Speaker which is weather resistant and it also brightens the venue with its elegant design. The speakers can be used in various applications from small-sized venues to mid/large-sized venues. To be specific, it particularly fits in facilities that high quality of background music is playing a crucial role (cafes and hotel lobby etc.), educational facilities(auditorium and conference room etc.) and cultural facilities(exhibition hall etc.)

- WS Series is composed of 4 models from 2.5" Full-Range unit installed compact-sized WS-15T to 6.5" 2way model WS-80T.
- The Series has been applied with newly developed Full-Range unit, HF driver and LF driver unit to provide high-power clear sound without distortion. Moreover, 2way model adopts asymmetric horn design to over audience area perfectly.
- With the speaker taps on the rear panel of the every WS Series model, 100V line/70V line and low impedance (8 Ω) output can be adjusted.
- WS Series has obtained IP rate of 54 which enables to be used in various indoor and outdoor applications.



Model			WS-15T	WS-30T	WS-50T	WS-80T
Туре			2.5" 1 way full range 4" 2 way passive 5" 2 way passive 6.5" 2 way passi			
Enclosure Material		ABS RESIN				
	Continu	Jous (AES Std)	15W	30W	50W	8oW
Power	Progra	m:+3dB	30W	6oW	100W	160W
	Peak: +	-6dB	6oW	120W	200W	320W
Nominal I	mpedance				8Ω	
Frequency	/ Range (-1	OdB)	110Hz~20,000Hz 100Hz ~20,000Hz			
Sensitivity	y 1W / 1m (dB)	84dB	85dB	87dB	90dB
Maximum	SPL		102dB	106dB 110dB 115dB		
Directivity	(1kHz)		90°	90° Horizontal: 120° (Near Field) , 60° (Far Field) Vertical: +20° to -40° (on axis)		rtical: +20° to -40° (on axis)
Tunnafaun	Т	70V	15/10/5/3W	30/15/7.5/3.8/1.9W	50/25/13/6.5/3.3W	80/40/20/10/5W
Transform	ier laps	100V	15/10/5/3W	30/15/7.5/3.8W	50/25/13/6.5W	80/40/20/10/5W
Connectors		2P screw terminal				
Dimension	ns (WxHxD)	92 x 120 x 114mm 139 x 210 x 129mm 173 x 250 x 150mm 210 x 311 x 169mm		210 x 311 x 169mm	
Weight 0,9kg		0,9kg	1,72kg	2,37kg	3,57kg	
IP Rating				IP54		

Active speakers

MS-80LT

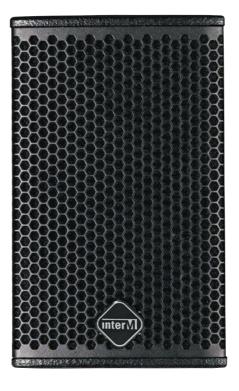
2-Way Passive Compact Loudspeaker - 80W **MSB-80**

U Bracket (optional)

- The MS-80LT is a compact full-range 2-way loudspeaker. Its woofer comes from the famous Italian acoustic manufacturer Faital PRO to offer you increased audio quality.
- It is designed for music broadcasting and voice reproduction for commercial applications such as shops, restaurants, hotels, reception areas and
- It integrates a titanium high-frequency transducer with protection circuitry in a perfectly balanced package with excellent audio performance.
- Absorbing sound box made of very robust and environmentally friendly eucalyptus.
- Secure and recessed housing to ANSI standards.







MSB-80: optional U bracket



Model		MS-80LT		
Туре		5" 2-Way Passive High Impedance		
Enclosure	Material	15mm Eucalyptus		
_ Continuous (AES Std)		8oW		
Power Rating	Program:+3dB	160W		
Kutilig	Peak: +6dB	320W		
Nominal II	mpedance	8Ω		
Frequency	y Response (-10dB)	60Hz-20kHz		
Sensitivit	tivity (1 m/1 W) (dB) 88dB			
SPL Max 113dB		113dB		
Directivity (1kHz)		120° Conical		
Transformer Taps (70V/100V)		Low Impedance: 8Ω High Impedance : 62Ω (70V), 125Ω , 250Ω , 500Ω , $1k\Omega$, $2k\Omega$ (100V)		
Recomme	nded High-Pass Filter	60Hz 12dB/Oct.		
LF Driver		5" Woofer (FaitalPRO)		
HF Driver		1.35" Soft Dome Tweeter Titanium(CIC ADA) driver		
Connectors		Screw Type Terminal		
Fittings		MSB-80 Optional - U bracket - 3x M6 (6mm)		
Dimension	ns (WxHxD)	152x250x209.5mm		
Weight 3.8kg		3.8kg		

AS-630R

Set of 2 speakers (1 active + 1 passive) 2 x 30W









PUBLIC ADDRESS

Active speaker rear panel

Infra-red remote control

- AS-630R speakers set includes a 6" driver and a 1.5"
- The integrated amplification provide a power of 2x30W. She had 2 audio inputs for all odB audio signal allow you to connect for example one video projector a mixing console.
- The provided infra-red remote control allow you to control most of setting for an easier use.
- The RS-232 port allow management of the speaker from an automation device.
- This pair of speakers is perfectly suited to the following applications: class room, meeting room, projection room, in addition of television.

Model	ASR-630R		
Input power	2 x 30W @ 8Ω		
Input sensitivity	0.350V		
Frequency response	80Hz - 16kHz/1W, ±3dB		
THD	1kHz/1W, 0.1%		
S/N ratio	85dB		
Channel Isolation	> 65dB		
Amplification style	D class		
Indicating type	Power / Signal		
Protection type	Over temperature protection, overload protection, mute switch		
Bass adjustment	±10dB		
Treble adjustment	±10dB		
Input type	Euroblock balance, stereo 3.5mm jack		
RS232	Euroblock RS232 Input		
VCA	Euroblock VCA Input		
Remote control	Infra-red Remote control		
Power source	~110V-240V 50/60Hz		
Dimensions (WxHxD)	216 × 295 × 245mm		
Weight	6.5kg (pair)		

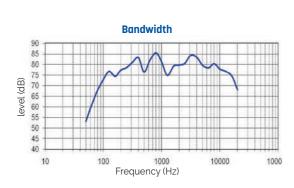
Sound projector

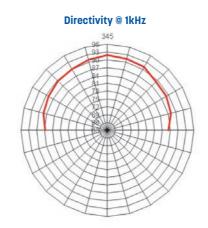
IMPI 120T

1-way indoor/outdoor sound projector - 10W

- Standard quality sound projector equipped with a 100V line transformer, 2.5/5/10W.
- Can be used indoors or outdoors.







Model	IMPI 120T
Speaker	5"
Body & grill	ABS / Metal
Nominal power	10W
100V line power	2.5/5/10W
Bandwidth	130 to 15,000Hz
Sensitivity 1W / 1m	91dB
Directivity @ 1kHz	90°
Dimensions (Ø x L)	138 x 205mm
Weight	1,6kg
Protection rating	IP55

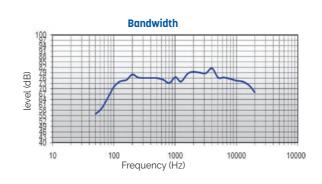
IMPI 330T

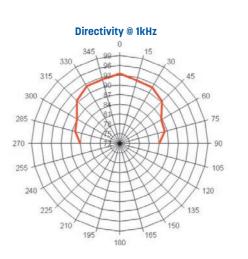
1-way indoor/outdoor sound projector - 10W

- Aluminium sound projector recommended for all types of indoor or outdoor public places
- Equipped with a 5" speaker, their extended frequency response allows it to broadcast either music or voice messages.









Model	IMPI 330T
Speaker	5"
Body & grill	Aluminium
Nominal power	10W
100V line power	2.5/5/10W
Bandwidth	130 to 15,000Hz
Sensitivity 1W / 1m	g1dB
Directivity @ 1kHz	90°
Dimensions (Ø x L)	138 x 225mm
Weight	2,15kg
Protection rating	IP55

Sound projector

IMPI 330T VA

10W Indoor/outdoor sound projector EN 54 24

Compliant with the international standards relative to public address and evacuation installations (EN 54-24 Type B and ISO 7240-24), this sound projector is recommended for the equipment of all types of public places such as train stations, pedestrian streets, car parks etc.

QUALITY SPEECH AND MUSIC REPRODUCTION

Equipped with a 12cm diameter loudspeaker, its frequency response makes it possible to broadcast highquality music and information messages.

EASY TO INSTALL

A solid aluminium bracket is provided to facilitate the installation and orientation of the projector in almost all positions. It is possible to mount the bracket first and then the sound projector.

WITHSTANDS ALL KINDS OF WEATHER

Made of extruded aluminium, it can be installed indoors or outdoors (IP55) and blends in with most surroundings.

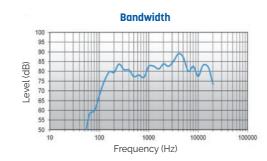
• Optional specific RAL painting available : PEINT PROJECTEUR (minimum 15 pcs).

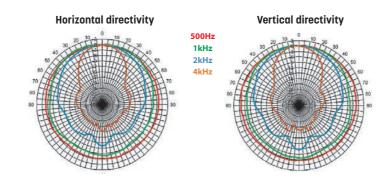
Model	IMPI 330T VA
Body & grill	Aluminium
Nominal power	10W
Nominal Impedance	1kΩ
Power 100V Line	10 / 5 / 2.5W
Impedance	1/2/4kΩ
Bandwidth	120Hz - 20kHz
Sensitivity (1W/1m)	95dB
SPL MAX 1m	103dB
Directivity (H-V) @ 500Hz	360° - 360°
Directivity (H-V) @ 1kHz	240° - 260°
Directivity (H-V) @ 2kHz	115° - 115°
Directivity (H-V) @ 4kHz	54° - 54°
Speaker	5"
Cone	Plastic
Dimensions [mm]	Ø138 x (D)225
Weight	2.5kg
Operating temperature	-25 to +70°C
Protection Index	IP55
Color	White











SP0T2010-EN5424

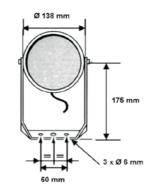
20W sound projector

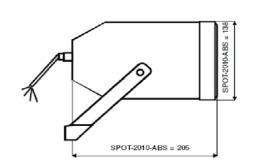




- High intelligibility
- Protection index IP 55
- Inconspicuous & multipurpose
- Easy and quick installation
- The SPOT2010-EN5424 is a 20W sound projector fitted with a dual cone loudspeaker.
- Its fixing device facilitates its orientation and ensures an easy and quick installation: wall- or ceiling mounting.
- · Made out of ABS, it is weatherproof, shock and corrosion resistant. Therefore, it can be installed in any type of environment







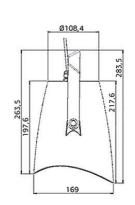
Model	SP0T2010-EN5424
Nominal power	20 W
Power 100V Line	20 / 10 / 5 W
Frequency range	110 – 17 000 Hz
Impedance	20 W : 0.5 kΩ / 10 W : 1 kΩ / 5 W : 1.8 kΩ
Sensitivity (1W/1m)	100 dB
SPL Max 1m	112 dB / 20W
Directivity (-6dB)	500 Hz : 180° 4 KHz : 75°
Speaker	Ø 12,5 cm dual cone
Dimensions	Ø 138 x 205 mm
Fixed centre distance	2 x 60 mm
Weight	1.6 kg
Material	ABS + Alu grid
Protection rating	IP55
Color	White
Connexion	Block terminals

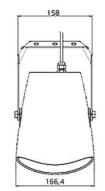
Bi-directional sound projector

IMPI 520T VA

20W Design Sound Projector EN 54 24

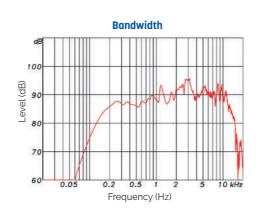
- The 20W design speaker with an amazing concave shape is equipped with a 130mm full-range speaker and a 100V transformer with 3 power adjustments 20/10/5W.
- Acoustically the design loudspeaker convinces at all levels. Thanks to a smart phase-shifting and a high-quality midrange resonator, the speaker offers a sound characteristic that is matching a 2-way system.
- In addition, the very wide dispersion ensures a comprehensive sound.
- A robust, ABS plastic housing in RAL9016 and a stable aluminium mounting bracket guarantee a durable installation.
- The cable is fed via a cable gland (PG11). The integrated 2x2-pole ceramic block and thermal fuse as well as the moisture impregnation of the loudspeaker ensure additional safety.



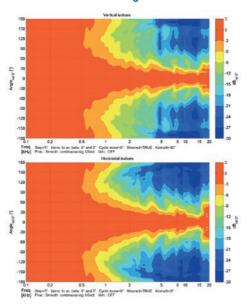


Model	IMPI 520T VA
Body & grill	ABS, Aluminium
Nominal power	20W
Nominal Impedance	500Ω
Power 100V Line	20 / 10 / 5W
Impedance	500 / 1,000 / 2,000Ω
Bandwidth	142 - 14 300Hz
Sensitivity (1W/1m)	88,4dB
SPL MAX 1m	100dB
Directivity (H-V) @ 500Hz	360°
Directivity (H-V) @ 1kHz	155° - 220°
Directivity (H-V) @ 2kHz	95° - 85°
Directivity (H-V) @ 4kHz	80° - 85°
Speaker	5"
Cone	PP polypropylene
Dimensions (WxDxH)	166,4 x 283,5 x 169mm
Weight	1,76kg
Operating temperature	-25 to +70°C
Protection Index	IP65
Color	RAL 9016





Polar diagrams



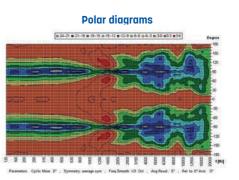
IMPI 2510T VA

10W bi-directional sound projector EN 54 24

- The 10W powered speaker is equipped with two 130mm fullrange loudspeakers and a 100V line transformer with 4 power adjustments.
- A robust powder coated aluminum housing in RAL 9010, and a vandal-resistant feet ensure a permanent installation of this speaker.
- For additional reliability, a 2x2 pin-ceramic block and a thermal fuse is provided and the speaker chassis is impregnated against wetness.
- Optional specific RAL painting available : **PEINT DUAL** (minimum 25



Frequency (Hz)



Model	IMPI 2510T VA
Body & grill	Aluminium
Nominal power	10W
Nominal Impedance	1,000Ω
Power 100V Line	10 / 6 / 3 / 1,5W
Impedance	1,000 / 1,667 / 3,333 / 6,667Ω
Bandwidth	237 - 12 400Hz
Sensitivity (1W/1m)	89.6dB
SPL MAX 1m	95.3dB
Directivity (H-V) @ 500Hz	2 x 130°
Directivity (H-V) @ 1kHz	2 x 150°
Directivity (H-V) @ 2kHz	2 x 145°
Directivity (H-V) @ 4kHz	2 x 75°
Speaker	2 × 5"
Cone	Coated paper
Dimensions (WxDxH)	197 x 161 x 166mm
Weight	2,35kg
Operating temperature	-25 to +70°C
Protection Index	IP65
Color	RAL 9010

Spherical speaker

SPJ-52WHBS

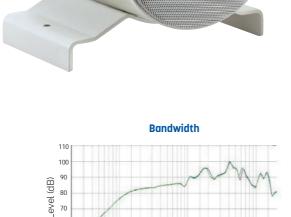
2-way bi-directional sound projector - 20W EN 54 24

- Excellent reproduction of voice and music
- Built-in connector and connection cables
- For installation on the ceiling or on the wall
- Protection from water and dust, IP66
- The SPJ-52WHBS is a powerful, 20-W bidirectional sound projector designed for the high-quality reproduction of voice and music.
- It can be used inside or outside. The two opposing speakers are perfect for applications such as metro stations, train stations, parking garages, and make it possible to cut the number of speakers in half.
- The SPJ-52WHBS is equipped with a ceramic terminal block, a thermal fuse and wires that can withstand high temperatures.

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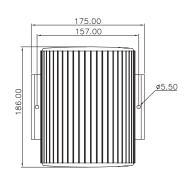
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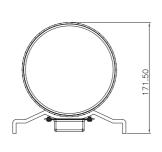
Model	SPJ-52WHBS
Body & grill	Aluminium
Nominal power	20W
Nominal Impedance	500Ω
Power 100V Line	20 / 10 / 5W
Impedance	500 / 1,000 / 2,000Ω
Bandwidth	120Hz - 20,000Hz
Sensitivity (1W/1m)	88dB
SPL MAX 1m	100dB
Directivity (H-V) @ 500Hz	360°
Directivity (H-V) @ 1kHz	320°
Directivity (H-V) @ 2kHz	200°
Directivity (H-V) @ 4kHz	80°
Speaker	2 x 5"
Cone	Paper composite
Dimensions	Ø 146 x 186mm
Weight	3.2kg
Operating temperature	-20 to +70°C
Protection Index	IP66





Frequency (Hz)



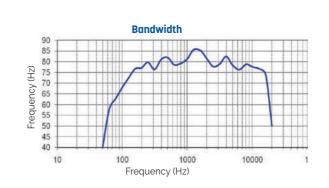


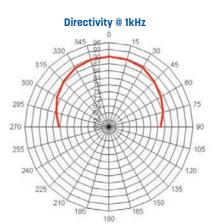
B 150T

10W spherical speaker

- Spherical loudspeaker designed for use in public areas, shops, halls, supermarkets...
- It is equipped with a bicone 5" speaker and a 100V line transformer.
- This loudspeaker designed to be suspended includes a 1m cable and a safety steel rope.







Model	B 150T
Speaker	5"
Body & grill	ABS
Nominal power	10W
100V line power	2.5/5/10W
Bandwidth	150 to 15,000Hz
Sensitivity 1W / 1m	92dB
Directivity @ 1kHz	90°
Dimensions (Ø)	180mm
Weight	1,350kg

Pendant speakers

B 250T EN

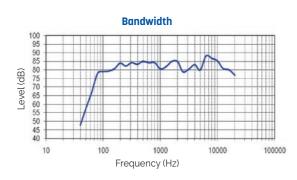
2-way spherical speaker - 15W

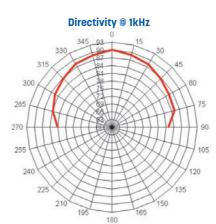
- Spherical loudspeaker designed for use in public areas, shops, halls, supermarkets...
- It is equipped with two speakers, a 6.5" midrange transducer and a coaxial tweeter, which provide excellent acoustic quality.
- Suspended from a ceiling using a safety cable.
- Optional specific RAL painting available : PEINT **SPHERE** (minimum 12 pcs).









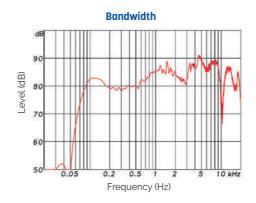


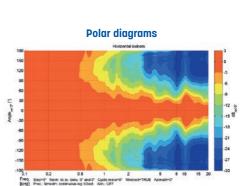
Model	B 250T EN
Speaker	6.5" - 2-way
Body & grill	ABS
Nominal power	15W
100V line power	5/7/15W
Bandwidth	75 to 20,000Hz
Sensitivity 1W / 1m	91dB
Directivity @ 1kHz	90°
Dimensions (Ø)	250mm
Weight	1,6kg
EN standard	60849

B 420TW VA - B 420TB VA

20W Design Pendant Speakers EN 54 24

- The 20W pendant speaker is equipped with a 100mm 2-way bass reflex system and offers powerful sound with a wide and homogeneous dispersion.
- The B 420T VA has a 100V transformer with 4 power adjustments, these can be easily adjusted by a rotary switch on the top of the sphere. Low impedance operation is also possible.
- The impact-resistant, UV-resistant ABS plastic housing guarantees lasting stability.
- Additional operational safety is provided by the 2x2-pole ceramic terminal block, a thermal fuse, a PG screw connection integrated into the canopy and the moisture impregnation of the loudspeaker.
- The loudspeaker is protected against the risks of environmental influences with protection class IP65.





0	NEW
B 420TW VA (Whi	te)
diagrams	

B 420TB VA (Black)

Model	B 420TW VA - B 420TB VA	
Body & grill	ABS, Aluminium	
Nominal power	20W	
Nominal Impedance	500Ω	
Power 100V Line	20 / 10 / 5 / 2,5W	
Impedance	500 / 1,000 / 2,000 / 4,000Ω	
Bandwidth	70 - 22,000Hz	
Sensitivity (1W/1m)	83.9dB	
SPL MAX 1m	96.9dB	
Directivity (H-V) @ 500Hz	360°	
Directivity (H-V) @ 1kHz	160°	
Directivity (H-V) @ 2kHz	102°	
Directivity (H-V) @ 4kHz	86°	
Speaker	4"	
Cone	PP polypropylene	
Dimensions	Ø 189,4 x H 231mm	
Weight	2,02kg	
Operating temperature	-10 to +55°C	
Protection Index	IP65	
Color	B 420TW VA : White / B 420TB VA : Black	

Pendant speakers

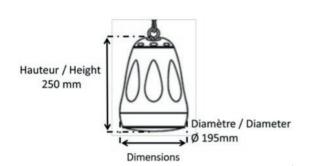
PEND-3025B-EN

30W Pendant Speaker



- Very good sound coverage : broadcast angle > 150°
- Dynamic sound : 5" full range driver
- Discrete and smooth design: aerodynamic shape, black matt
- Easy and quick installation : cable with carabiners, Euroblock terminal & potentiometer
- This black pendant loudspeaker is composed of a 5" full range driver which guarantees a very good intelligibility of both your safety messages and your background music.
- It is ideal for spaces with high ceiling.
- Its installation remains easy with its Euroblock connector and its strong cable supplied with carabiners.





Model	PEND-3025B-EN
Nominal power	30 W
Impedance	30 W : 333 Ω / 15 W : 666 Ω / 7,5 W : 1333 Ω / 3,8 w : 2630 Ω
Power 100V Line	30 / 15 / 7.5 / 3,8 W + 8 Ω (adjustable with potentiometer)
Bandwidth	110 Hz - 20 kHz
Sensitivity (1W/1m)	85 dB
SPL MAX 1m	98 dB
Speaker	5" full range driver
Directivity (H-V) @ 500 Hz	360°
Directivity (H-V) @ 1 kHz	146,5°
Directivity (H-V) @ 2 kHz	82,5°
Directivity (H-V) @ 4 kHz	76.5°
Dimensions	Ø 195 x H 250 mm
Weight	2,2 kg
Operating temperature	-10°C à +55°C
Material	ABS
Protection Index	IP21 (resistant to humidity)
Color	Black
Accessories	Fixation cable + carabiners

B 652T-W - B 652T-B 2-way pendant speakers

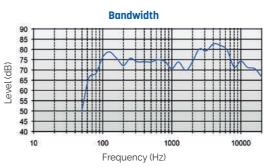
32W

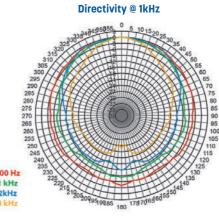


Connector and hook system



- These ultra-design pendant speakers are recommended for installation without ceiling where a highquality broadcasting is required. They blend in with all lighting equipment on the current market.
- Their coaxial 2-way 6.5" woofer with silk dome make outstanding speakers adapted for intelligible music and voice reproduction.
- Ideally suited for restaurant such facilities, shop mall, medium sized surfaces, they are available on black or white for a perfect integration.
- They are provided with a safety rope GRIPPLE® type, ceramic terminal and cover with rubber cable gland.





Model	B 652T-W / B 652T-B
Connector aSpeaker	2-way 6.5" coaxial
Material	ABS fibreglass reinforced / Aluminium
Colour	White: B 625T-W / Black: B 652T-B
Nominal Impedance	16Ω
Nominal power	32W
100V line power	4 / 8 / 16 / 32W
Bandwidth	80 to 22,000Hz
Sensibility 1W / 1m	90dB
SPL max	105dB
Crossover frequency	3kHz
Terminal	10mm² ceramic terminal
Dimensions (ØxH)	256 x 315mm
Weight	3.2kg
Regulation	UL 1480 UEAY, UL 2239, CE, RoHS

Column speaker

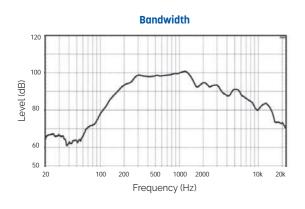
Column speaker

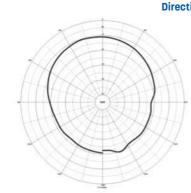
CU-440F

40W indoor column speaker

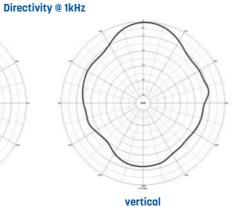
- This column speaker intended for indoor use is specially designed for places with difficult acoustics such as churches, halls, etc.
- With its rotary power selector, this column provides an effective solution to the intelligibility of the spoken message.
- Its wall mounting bracket offers the possibility of optimizing its orientation.







horizontal



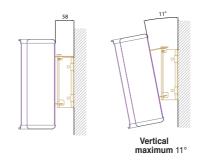
Model	CU-440F
Body	Body, top & bottom Cover: ABS
Grill	Metal
Driver	4"
Nominal power	40W
Power 100V Line	20/40W
Impedance	250/500Ω
Bandwidth (-10dB)	135Hz ~ 13,700Hz
Sensitivity (1W/1m/1KHz)	g2dB
SPL Max	108dB
Directivity HxV (1KHz)	195° x 52°
Directivity HxV (4KHz)	112° × 15°
Dimensions (WxHxD)	156 x 600 x 129mm
Weight	4,76kg
Certification	KS
Accessory	Wall mounting bracket included

CU-9030

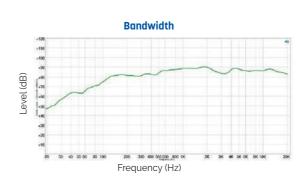
30W Outdoor 2-Way Column Speaker

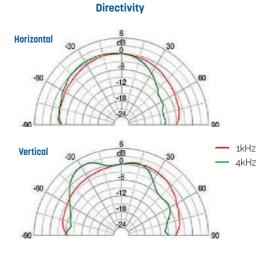
- The CU-9030 is a high-performance column speaker specialized in demanding environments.
- It is equipped with a high-performance speaker driver that enables clear voice transmission from a distance.
- It is designed to be durable with a waterproof and dust-proof design (IP65), an aluminium body and a galvanized steel grille.
- Therefore, it can be applied to special facilities such as brine, port facilities that need to cope with corrosion, and factories that require dust prevention.
- Its fixing bracket offers the possibility to optimize the orientation.





Fixing Bracket





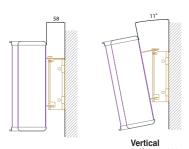
Model	CU-9030
Enclosure and grill material	Aluminium / Zn-plating
Nominal power	30W
Power 100V line	30/15W
Impedance	330/660Ω
Frequency Range (-10dB)	15Hz ~ 20kHz
Sensitivity (1W/1m, 1kHz)	88dB
SPL Max	106dB
Directivity HxV (1KHz)	180° / 175°
Directivity HxV (4KHz)	130° / 110°
Dimensions (WxHxD)	160 x 320 x 125mm
Weight	3.09kg
Weather Resistance	IP65

Column speaker

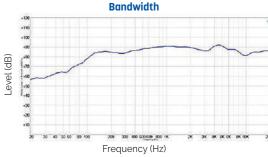
CU-9060

60W Outdoor 2-Way Column Speaker

- The CU-9060 is a high-performance column speaker specialized in demanding environments.
- It is equipped with a high-performance speaker driver that enables clear voice transmission from a distance.
- It is designed to be durable with a waterproof and dust-proof design (IP65), an aluminium body and a galvanized steel grille.
- Therefore, it can be applied to special facilities such as brine, port facilities that need to cope with corrosion, and factories that require dust prevention.
- Its fixing bracket offers the possibility to optimize the orientation.



Fixing Bracket





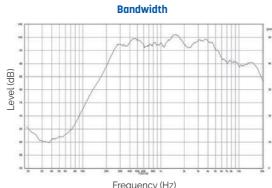
Model	CU-9060	
Enclosure and grill material	Aluminium / Zn-plating	
Nominal power	6oW	
Power 100V line	60/30W	
Impedance	166/330Ω	
Frequency Range (-10dB)	105Hz ~ 20kHz	
Sensitivity (1W/1m, 1kHz)	90dB	
SPL Max	110dB	
Directivity HxV (1KHz)	180° / 90°	
Directivity HxV (4KHz)	120° / 40°	
Dimensions (WxHxD)	160 x 450 x 125mm	
Weight	4.66kg	
Weather Resistance	IP65	

CU 320T VA

20W Sound Column



- The 20W powered speaker is equipped with four 77mm full-range loudspeaker chassis and a 100V transformer with 4 power adjust-
- The powder coated and shock-resistant aluminium housing in RAL 9006 guarantees long-term stability.
- For additional reliability, a 2 pin-ceramic block, a thermal fuse is provided and the speaker chassis is impregnated against wetness.
- Furthermore sturdy cable glands 2 x PG9 are also provided.
- The speaker is also secured with the high protection class IP66 against the security risks of environmental influences
- Optional specific RAL painting available : PEINT CU (minimum 25



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Model	CU 320T VA
Body & grill	Aluminium
Nominal power	20W
Nominal Impedance	500Ω
Power 100V Line	20 / 15 / 10 / 5W
Impedance	500 / 667 / 1,000 / 2,000Ω
Bandwidth	147 - 23 500Hz
Sensitivity (1W/1m)	92,5dB
SPL MAX 1m	100,3dB
Directivity (H-V) @ 500Hz	360° - 124°
Directivity (H-V) @ 1kHz	188° - 65°
Directivity (H-V) @ 2kHz	149° - 38°
Directivity (H-V) @ 4kHz	86° - 14°
Speaker	4×3"
Dimensions (WxHxD)	510 x 100 x 92 mm
Weight	2,9kg
Operating temperature	-25°C ~+70°C
Protection Index	IP66 - IK 08
Color	RAL 9006



Polar diagrams

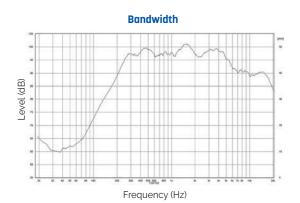
CU 350T VA

50W Sound Column



- The 50W powered speaker is equipped with eight 77mm full-range loudspeaker chassis and a 100V transformer with 4 power adjustments.
- The powder coated and shock-resistant aluminium housing in RAL 9006 guarantees long-term stability.
- For additional reliability, a 2 pin-ceramic block, a thermal fuse is provided and the speaker chassis is impregnated against wetness.
- Furthermore sturdy cable glands 2 x PG9 are also provided.
- The speaker is also secured with the high protection class IP66 against the security risks of environmental influences.
- Optional specific RAL painting available : **PEINT CU** (minimum 25 pcs).







Model	CU 350T VA
Body & grill	Aluminium
Nominal power	50W
Nominal Impedance	200Ω
Power 100V Line	50 / 30 / 15 / 7.5W
Impedance	200 / 333 / 667 / 1,333Ω
Bandwidth	110 - 18,000Hz
Sensitivity (1W/1m)	94,7dB
SPL MAX 1m	102.8dB
Directivity (H-V) @ 500Hz	360° - 73°
Directivity (H-V) @ 1kHz	186° - 33°
Directivity (H-V) @ 2kHz	173° - 17°
Directivity (H-V) @ 4kHz	98° - 6°
Speaker	8 x 3"
Dimensions (WxHxD)	100 x 971 x 92mm
Weight	5,2kg
Operating temperature	-25°C ~+70°C
Protection Index	IP66 - IK 08
Color	RAL 9006

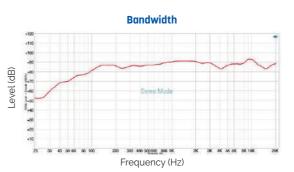
CU-7060-B - CU-7060-W

Dual 4" 2-way indoor column speakers Ω 8 - W06

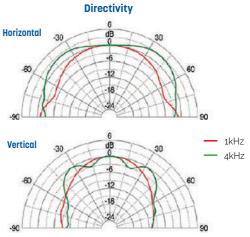
- The CU-7060 are indoor column speakers specialized for places where rich sound pressure and high quality music reproduction are required.
- Designed to minimize driver-to-driver interference, they deliver clear and rich sound with high-frequency and low-loss professional-quality audio.
- They are suitable for indoor space such as churches, halls, restaurants, etc.











Horizontal	-30 dB	30	
80/	12	60	
.90 H	1	so	
Vertical	30 dB	30 — 1kHz — 4kHz	
-80 X	-8 -12 -18	60	
-90		so	

Model		CU-7060-B	CU-7060-W		
Туре		Dual 4" 2-way column speaker			
Body & grill		MDF/Metal			
Color		Black	White		
Nominal power		60	60W		
100V line power		30W - 330Ω / 60W - 166Ω / 60W - 8Ω			
Bandwidth (-10dB)		100 to 20,000Hz			
Sensitivity (1 m/1 W, 1 kH)		92dB			
SPL Max		111dB			
1kHz		140° horizontal	140° horizontal x 100° vertical		
Directivity	4kHz	180° horizontal x 106° vertical			
Connectors		4P Screw	4P Screw Terminal		
Dimensions (WxHxD)		130 x 420 x 195mm			
Weight (kg)		5.42	2kg		
Accessorie prov	rided	Fixing b	pracket		

Column speakers

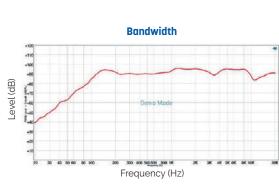
CU-7120-B - CU-7120-W

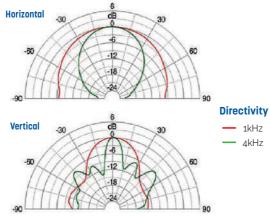
Dual 4" 2-way indoor column speakers 120W - 8Ω

- The CU-7120 are indoor column speakers specialized for places where rich sound pressure and high quality music reproduction are required.
- Designed to minimize driver-to-driver interference, they deliver clear and rich sound with high-frequency and low-loss professional-quality audio.
- They are suitable for indoor space such as churches, halls, restaurants, etc.









Model		CU-7120-B	CU-7120-W		
Туре		Dual 4" 2-way column speaker			
Body & grill		MDF/	Metal		
Color		Black	White		
Nominal power (W)		120	120W		
100V line power		60W - 166Ω / 120W	60W - 166Ω / 120W - 83Ω / 120W - 8Ω		
Bandwidth (-10dB)		95 to 20,000Hz			
Sensitivity (1 m/1 W, 1 kH)		94dB			
SPL Max 116dB		dB			
Nive estimitus 1kHz		150° horizonta	150° horizontal x 50° vertical		
Directivity	4kHz	70° horizontal x 20° vertical			
Connectors		4P Screw Terminal			
Dimensions (WxHxD) 130 x 620 x 195mm		x 195mm			
Weight (kg)		8,02	2kg		
Accessorie provi	ided	Fixing b	pracket		

M-RC-COMPACT-02

40W compact speaker



- Moisture resistant- IP 32
- High intelligibility
- Superior acoustic quality
- · Easy and quick installation
- Unique design







- The M-RC-Compact-02 is an aluminium 40W speaker.
- Its ellipsoid shape makes it possible to reduce diffraction phenomena and to homogenize the acoustic radiation, thus keeping a high opening angle up to 4000 Hz. This feature ensures wider coverage of the audience area over the whole speech dedicated frequency band.
- With its unique design and its acoustical performances, it is adapted to all environments.
- Its ball-type fixing device facilitates its orientation and ensures simple and rapid installation.
- Optional specific RAL painting available : **PEINT COMPACT** (minimum 25 pcs).

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Model	M-RC-COMPACT-02	
Nominal power	40 W	
Frequency range	100Hz – 20kHz	
Impedance	250 Ω	
SPL (1W/1m)	89 dB	
SPL max	107 dB	
Directivity (-6dB)	160°	
Color	Aluminium grey RAL 9006	
Material	Aluminium, metal grid	
Dimensions	139 x 160 x 280 mm	
Weight	3.4 kg	
Protection Index	IP32	
Acoustic load	Bass reflex	
Accessory	Kneecap mount included	

Compact column speakers

High efficiency sound projector

CH-420

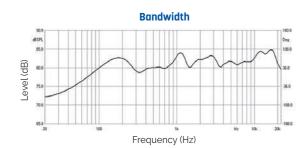
20W High efficiency sound projector

CH-430

30W High efficiency sound projector

- Excellent durability and clarity by adopting a synthetic resin structure
- Indoor and outdoor use with water repellent treatment
- Structure that can be easily attached to the wall by adjusting the orientation angle to 240° vertically and 135° to the left and right
- IP54





Model		CH-420	CH-430	
Туре		4" Horn Speaker		
Input Power 10	0V	20/10W	30/15W	
Impedance 100V		500Ω/1kΩ	330/660Ω	
Frequency Res	requency Response (-10dB) 110Hz ~ 12,000Hz 110Hz ~ 20,000Hz		110Hz ~ 20,000Hz	
Frequency Range (-20%)		100Hz ~ 18,000Hz	90Hz ~ 20,000Hz	
Sensitivity (1W	/1m, 1kHz)	93dB	94dB	
SPL max [Cont]	106dB	109dB	
Nominal Dispersion	1kHz	110° × 180°	110° × 170°	
(conical) 4kHz		50° × 30°	40° × 30°	
Dimensions (W	/xHxD)	291 x 154 x 364mm		
Weight		3,4kg	3.5kg	
Weather Resis	tance	IP	54	

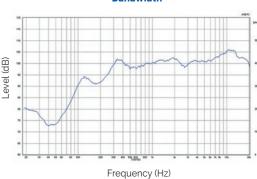
CS 532T VA

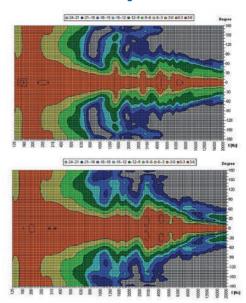
2-Way Horn Speaker - 30W

- The 30W powered 2-way speaker is equipped with a 100V line transformer with 4 power adjustments 30/15/7.5/3.75W.
- The impact-resistant ABS housing in RAL 7035 guarantees long-term stability.
- For additional reliability, a ceramic block and a thermal fuse is provided.
- The speaker is also secured with the high protection class IP66 against the security risks of environmental influences. Mounting by stainless aluminum universal mount.



Bandwidth





Body & grill	ABS
Nominal power	100W
Nominal Impedance	100Ω
Power 100V Line	100 / 50 / 25W
Impedance	100 / 200 / 400Ω
Bandwidth	280 to 9,000Hz
Sensitivity (1W/1m)	98.1dB
SPL MAX 1m	112dB
Directivity (H-V) @ 500Hz	58° - 35°
Directivity (H-V) @ 1kHz	35° - 25°
Directivity (H-V) @ 2kHz	40° - 20°
Directivity (H-V) @ 4kHz	54° - 15°
Speaker	5" + Driver
Dimensions (WxDxH)	315 x 305 x 350mm
Weight	16kg
Operating temperature	-25 to +70°C
Protection Index	IP66
Color	White
Couleur	RAL 9016
	*

CS 532T VA

High efficiency sound projector

CS-5HTBS

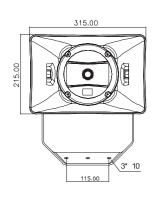
2-Way Horn Speaker - 30W

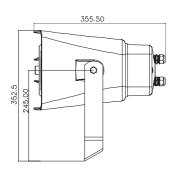
₄EN 54 24

- The CS-5HTBS long-range enclosure is equipped with a 2-way system, thereby providing a wide fre-quency range and high sensitivity, making it ideal for the high-quality reproduction of voice and music..
- With its controlled-directivity acoustical horn and two transducers, one for low frequencies and the other for high, this unique rectangular enclosure produces amazingly pure sound..
- The horn is waterproof and can be used in high-humidity environments. It is therefore suitable for outdoor use such as sports fields, stadiums, theme parks, exhibition halls and air terminals, as well as for applications used in P.A and evacuation systems.

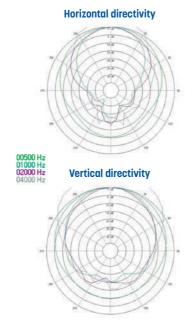


Model	OO FUTDO
Model	CS-5HTBS
Body & grill	ABS fireproof
Nominal power	30W
Nominal Impedance	333Ω
Power 100V Line	30 / 15 / 7.5 / 3.75W
Impedance	333 / 666 / 1,333 / 2,667Ω
Bandwidth	120Hz - 20,000Hz
Sensitivity (1W/1m)	g6dB
SPL MAX 1m	111dB
Directivity (H-V) @ 500Hz	140° - 180°
Directivity (H-V) @ 1kHz	60° - 100°
Directivity (H-V) @ 2kHz	90° - 90°
Directivity (H-V) @ 4kHz	90° - 140°
Speaker	6" + 2,5" driver
Dimensions (WxDxH)	315 x 355 x 215mm
Weight	4,65kg
Operating temperature	-25 to +70°C
Protection Index	IP66
Color	White





				Band	dwidth		
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	100			1	NNW	VV~	M
$\widehat{\mathbb{D}}$	90				1 V 1		100
9	80						
Level (dB)	70		/				-
ڀّ	60						
	50						
	40 2	0	100	500 1	1000	10000	20000
			F	requen	cy (Hz)		



CS-6HT60BS

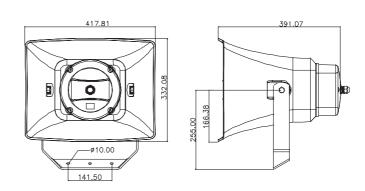
2-Way Horn Speaker - 60W

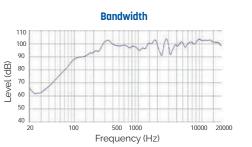
EN 54 24

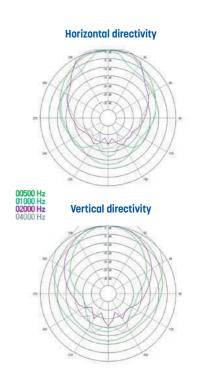
- The CS-5HTBS long-range enclosure is equipped with a 2-way system, thereby providing a wide fre-quency range and high sensitivity, making it ideal for the high-quality reproduction of voice and music..
- With its controlled-directivity acoustical horn and two transducers, one for low frequencies and the other for high, this unique rectangular enclosure produces amazingly pure sound..
- The horn is waterproof and can be used in high-humidity environments. It is therefore suitable for outdoor use such as sports fields, stadiums, theme parks, exhibition halls and air terminals, as well as for applications used in P.A and evacuation systems.



Model	CS-6HT60BS
Body & grill	ABS fireproof
Nominal power	6oW
Nominal Impedance	167Ω
Power 100V Line	60 / 30 / 15 / 7.5W
Impedance	167 / 333 / 666 / 1,333Ω
Bandwidth	100Hz - 20kHz
Sensitivity (1W/1m)	98dB
SPL MAX 1m	113dB
Directivity (H-V) @ 500Hz	100° - 140°
Directivity (H-V) @ 1kHz	40° - 70°
Directivity (H-V) @ 2kHz	80° - 90°
Directivity (H-V) @ 4kHz	80° - 150°
Speaker	6,5" + tweeter 2,5"
Dimensions (WxDxH)	(L)332 x (P)391 x (H)418
Weight	7.05kg
Operating temperature	-25 to +70°C
Protection Index	IP66
Color	White





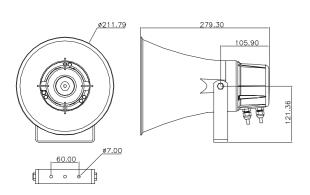


PHS-81T30BS 30W Horn Speaker



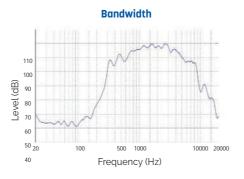
- High performance enclosure
- High-quality vocal reproduction
- Protection from water and dust, IP66
- The high-performance horn speaker faithfully reproduces speech with excellent sound distribution and can be used in a wide range of outdoor applications. The perfect solution for sports fields, parks, factories and outdoor pools
- The speaker is equipped with a ceramic terminal block, a thermal fuse and wires that can withstand high temperatures.
- Included is a U-shaped, stainless steel universal mount and screws (both AISI 316) for flexible installation.

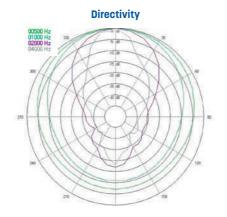
Model	PHS-81T30BS
Body & grill	ABS fireproof
Nominal power	30W
Nominal Impedance	333Ω
Power 100V Line	30 / 15 / 7,5 / 3,75W
Impedance	333 / 666 / 1,333 / 2,667Ω
Bandwidth	340Hz - 9kHz
Sensitivity (1W/1m)	108dB
SPL MAX 1m	123dB
Directivity (H-V) @ 500Hz	200°
Directivity (H-V) @ 1kHz	120°
Directivity (H-V) @ 2kHz	60°
Directivity (H-V) @ 4kHz	30°
Dimensions [mm]	Ø212 x 280
Weight	2,05kg
Operating temperature	-25 to +70°C
Protection Index	IP66
Color	White









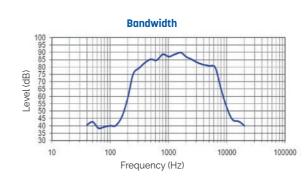


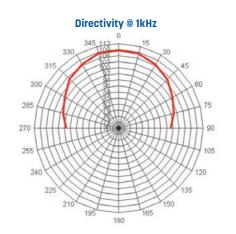
HS-50

50W High efficiency outdoor metal horn speaker

- This horn speaker allows high level sound distribution indoor or outdoor.
- It is specially recommended for outdoor public address such as camping sites, beaches, ski resorts... and particularly indicated for noisy industrial environments.
- It is UV and water resistant.







Model	HS-50
Material	Painted aluminium
Nominal power	50W
Peak power	55W
100V line power	25W / 400Ω 50W / 200Ω · 8Ω
Bandwidth (Hz)	380 to 6,500Hz
Sensitivity 1W / 1m	108dB
Directivity @ 1kHz	60°
Dimensions	320 x 350mm
Weight	3
Protection Index	IP66

Power loudspeaker

TU 100T VA

100W Horn speaker

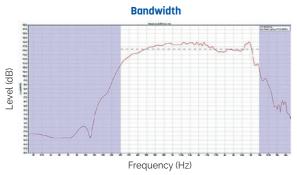
₄EN 54 24

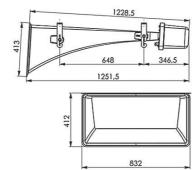
• The boundary horn speaker TU 100T VA has been developed for areas with extreme high ambient noise and is suitable for indoor and outdoor application, such as tunnels.

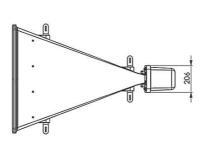
• It is built to withstand corrosive atmospheric contaminants, high moisture levels and temperature extremes. The horn provides an enormous sound pressure level, a very balanced frequency response and also a very low distortion.

• The TU 100T VA with a flame retardant plastic housing (UL 94 V-0) in black and IP 65 protection is also equipped with a ceramic terminal and thermal fuse. The high quality 100W horn driver offers a high performance CCAR voice coil. Furthermore sturdy cable glands 2 x PG13,5 are also provided.

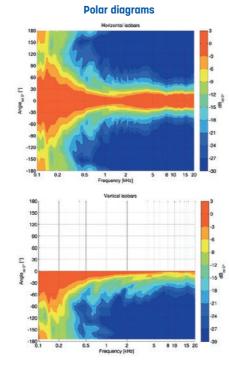
- Sturdy installation by rust-free V4A (A4) stainless steel brackets and screws.
- This horn speaker provides intelligible voice notifications over great distance, resulting in a lower number of loudspeakers which are required. The product is a certified voice alarm speaker according EN 54-24 and there is no additional equalizer needed to meet the frequency response requirements according EN 54-24.







Model	TU 100T VA
Material	ABS
Nominal power	100W
Nominal Impedance	100Ω
Power 100V Line	100 / 50 / 25W
Impedance	100 / 200 / 400Ω
Bandwidth	280 to 9,000Hz
Sensitivity (1W/1m)	113.9dB
SPL MAX 1m	131.9dB
Directivity (H-V) @ 500Hz	58° - 35°
Directivity (H-V) @ 1kHz	35° - 25°
Directivity (H-V) @ 2kHz	40° - 20°
Directivity (H-V) @ 4kHz	54° - 15°
Dimensions (WxDxH)	315 x 305 x 350mm
Weight	16kg
Operating temperature	-25 to +70°C
Protection Index	IP65



PS 8150T/W VA - PS 8150T/B VA

2-Way Horn Speakers - 150W

EN 54 24

- This 2-way coaxial horn speaker is designed for booth outdoor and outdoor applications!
- EN 54-24 certified, it delivers a superb foreground music.
- The PS 8150T VA delivers a smooth and powerful beam type sound for a large range of venues, such as airports, mega-stores, stadiums and many more.
- The 150W powered professional speaker is equipped with an impressing 2-way bassreflex system, consisting of an 8" woofer and a high performance HF-driver with crossover at 2.5kHz.
- The speaker offers 3 different 100V power tappings 150/75/38W, low impedeance operation is also possible.
- The sturdy high-impact ABS housing in white with metal hexagon-shaped aluminium grill offers IP66 enclosure protection.
- · Connection is easily done by a screw-terminal at the rear of the speaker, protected by a cover plate with 2 x PG11 cable
- The metal mounting bracket with adjustable inclination enables simple and safe installation. A safety rope is included in the delivery.

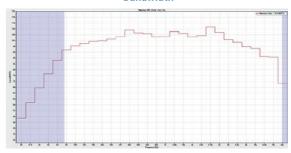
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PUBLIC ADDRESS

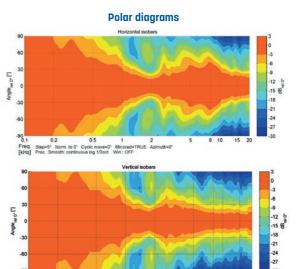
PS 81501/W VA (White)



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Frequency (Hz)

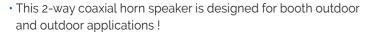


Model	PS 8150T/W VA - PS 8150T/B VA
Body & grill	ABS, Aluminium
Nominal power	150W
Nominal Impedance	67Ω
Power 100V Line	150 / 75 / 38W
Impedance	67 / 133 / 263Ω
Bandwidth	75 - 20,000Hz
Sensitivity (1W/1m)	96,7dB
SPL MAX 1m	116.8dB
Directivity (H-V) @ 500Hz	170° - 180°
Directivity (H-V) @ 1kHz	79° - 80°
Directivity (H-V) @ 2kHz	50° - 62°
Directivity (H-V) @ 4kHz	85° - 70°
Speaker	8" + Driver
Cone	PP polypropylene
Dimensions (WxHxD)	315 x 305 x 350mm
Weight	11,85kg
Operating temperature	-25 to +70°C
Protection Index	IP66

PS 8250T/W VA - PS 8250T/B VA

2-Way Horn Speakers - 250W





- EN 54-24 certified, it delivers a superb foreground music.
- The PS 8250T VA delivers a smooth and powerful beam type sound for a large range of venues, such as airports, mega-stores, stadiums and many more.
- The 250W powered professional speaker is equipped with an impressing 2-way bassreflex system, consisting of a 12" woofer and a high performance HF-driver with crossover at 2.5kHz.
- The speaker offers 3 different 100V power tapings 250/125/63W, low impedance operation is also possible.
- The sturdy high-impact ABS housing with metal hexagon-shaped aluminium grille offers IP66 enclosure protection.
- Connection is easily done by a screw-terminal at the rear of the speaker, protected by a cover plate with 2 x PG11 cable glands.
- The metal mounting bracket with adjustable inclination enables simple and safe installation. A safety rope is included in the delivery.

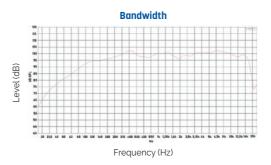
Model	PS 8250T/W VA - PS 8250T/B VA
Body & grill	ABS, Aluminium
Nominal power	250 W
Nominal Impedance	40 Ω
Power 100V Line	250 / 125 / 63 W (80 Ω)
Impedance	40 / 80 / 158 Ω
Bandwidth	75 - 20,000Hz
Sensitivity (1W/1m)	98,5 dB
SPL MAX 1m	122.5 dB
Directivity (H-V) @ 500Hz	138° - 152°
Directivity (H-V) @ 1kHz	60° - 70°
Directivity (H-V) @ 2kHz	90° - 110°
Directivity (H-V) @ 4kHz	80° - 70°
Speaker	12" + Driver
Cone	PP polypropylene
Dimensions (WxHxD)	390 x 425 x 418 mm
Weight	18,9 kg
Operating temperature	-25 to +70°C
Protection Index	IP 66
Color	White / Black

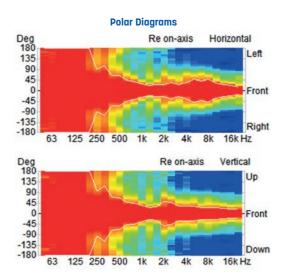


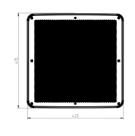


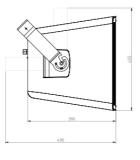


PS 8250T/B VA (Black)



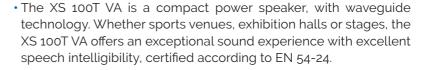


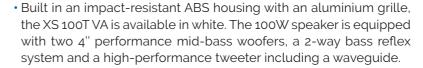




XS 100T VA

Compact Power Speaker 25/50/100 W

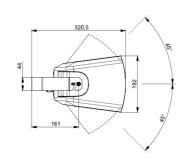


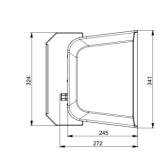


 A tweeter switch provides a 4dB boost for possible sound correction in near-wall and near-ceiling installations. The loudspeaker offers 4 different 100V power adjustments. Low-impedance operation is also possible.

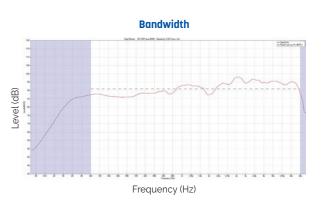


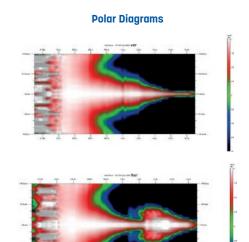
- The loudspeaker is weatherproof with IP66 protection rating. A sturdy aluminium bracket ensures flexible mounting, indoors as well as outdoors.
- This loudspeaker is also available as a professional line array (XS 100T VA ARRAY).





Model	XS 100T VA
Power	25/50/100 W
Impedance (100V)	100/200/400 or 1x4 Ω
Bandwidth	49-22.000 Hz
SPL, Pmax/4m	95,1 dB
Sensitivity (1W/1m)	86,3 dB
Directivity (H-V) -6dB, 500Hz	160° - 230°
Directivity (H-V) -6dB, 1KHz	65° - 140°
Directivity (H-V) -6dB, 2KHz	120° - 100°
Directivity (H-V) -6dB, 4KHz	145° - 68°
Dimensions	341 x 245 x 192 mm
IP Rating	IP66
Weight	6,5 kg
Temperature range	-25 / +70 °C
Mounting	Mounting bracket (included)
Connector	Screw terminal
Terminal diameter	2,3 mm
Maximum cable passage	4 mm²
Colour	White





Power loudspeaker

IX8HT

2-way passive speaker 115/225W - 100V / 8Ω

- Sturdy ABS speaker for installations requiring high powers such as swimming pools, sports halls and showrooms...
- This 8" 2-way compact model, using an Eminence woofer that guarantees its quality and durability, offers clear and powerful sound in 100V line or 8Ω .



FICHE SPEAKON NL4

Input and link by SPEAKON male 4 pole

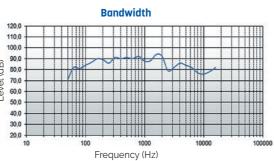


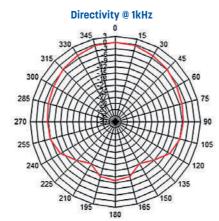


FIX SPE Wall fixing







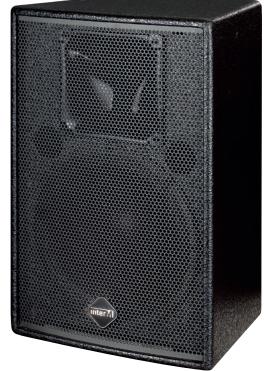


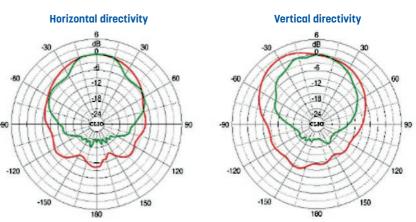
Model	IX8HT
Speaker	8" Eminence woofer + driver 1.35" titanium
Body & grill	ABS
Nominal power	225W
100V line power	115/225W
Bandwidth	60 to 20,000Hz
Sensitivity 1W / 1m	99dB
Directivity @ 1kHz	go° Horizontal / 60° Vertical
Dimensions (WxHxD)	270 x 430 x 260mm
Weight	7.9kg
Fixing	FIX SPE en option, sur demande

SO-10T

10" 2-Way Passive Multi-Purpose Loudspeaker 250W - 100V - 8Ω

- The SQ-10T is a 2-way point source type speaker that can be used in a variety of applications.
- With its wide and dynamic frequency response the SQ-10T accurately reproduce a wide range of frequency including a tight and powerful base.
- \cdot It can be used as a main PA, as delay or fill boxes as well as stage monitors.
- The enclosure design features multiple rigging points for easy horizontal or vertical mounting and installation convenience and a Pole Mount insert.
- · Applications :
- Sports facilities
- House of worship, churches and cathedrals
- Education classrooms and audio-visual
- Fill speaker
- Delay & Under balcony
- Low profile foot monitor



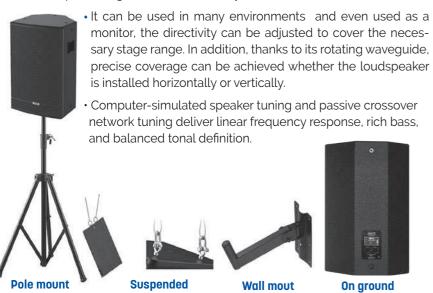


Model	SQ-10T
Driver	LF: 10" – HF: 1.35" Titanium Compression
Rated Power (AES)	250W
Rated Power (Program)	500W
Transformer Taps (70V/100V)	250W/100V - 125W/70V
Frequency Response (-10dB)	64Hz - 20kHz
Sensitivity (1W/1m)	97dB
SPL Max	127dB
Norminal Dispersion (H/V)	70°(narrow)~110°(wide) H/30°(up)~45°(down)V
Nominal Impedance	8Ω
Connectors	2xNL4 speakon
Enclosure Material	15T MDF
Dimensions (WxHxD)	330 x 480 x 330mm
Weight	14.1kg

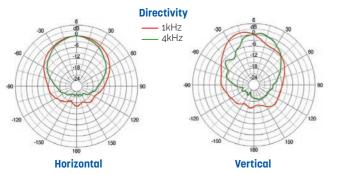
HE-12

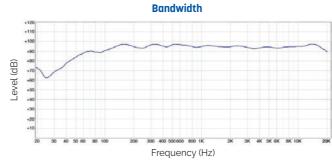
2-way passive multi-purpose compact loudspeaker - 400W

• It's is a passive 2-way loudspeaker with a high-performance woofer and a high-power titanium driver that adapts to a wide frequency range. Its wide bandwidth provides great broadcast clarity.







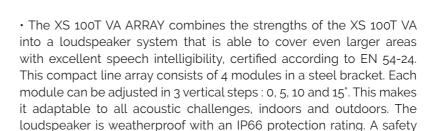


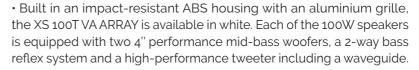
Model	HE 12	
Туре	12" 2Way Passive Point Source	
Frequency Response (±3dB)	107Hz ~ 19kHz	
Frequency Response (-10dB)	51Hz ~ 20kHz	
Rated Power (AES)	400W	
Rated Power (Peak)	1600W	
Sensitivity (1W/1m)	94dB	
Maximum SPL (Peak)	126dB	
Nominal Dispersion	70° (narrow) ~ 110°(wide) H / 30° (up) ~ 45° (down) V	
Nominal Impedance	8Ω	
LF Driver	12" Woofer, 3" voice coil	
HF Driver	1" Tweeter, 2.03" voice coil	
Horn	Asymmetrical Horn (Rotatable)	
Enclosure Material	High-density MDF 15T, Polyurea Coating	
Grill	SECC 1.5t, Powder Coating/BLACK	
Connection	2 X SPEAKON(1+,1-) [Parallel]	
Fittings/Suspension	12xM10 inserts (3xtop, 3xbottom, 2xrear, 2xleft, 2xright)	
Finish	Polyurea Coating	
Dimensions (WxHxD)	380 × 570 × 380mm	
Weight (net)	26,44kg	

XS 100T VA ARRAY

rope is included.

Compact Line Array 4x100 W





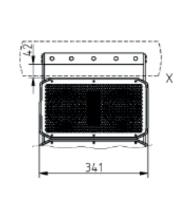
• A tweeter switch provides a 4dB boost for possible sound correction in near-wall and near-ceiling installations. Each loudspeaker offers 4 different 100V power adjustments. Low-impedance operation is also possible.

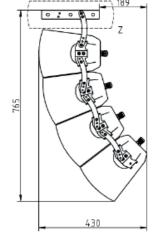


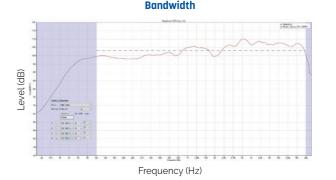




Model	XS 100T VA ARRAY	
Power	4 x 100/50/25 W	
Impedance (100V)	4 x 100/200/400 or 1x4 Ω	
Bandwidth	50-22.000 Hz (Tweeter 0dB)	
Sensitivity (1W/1m)	92 dB	
Directivity (H-V) -6dB, 500Hz	182°- 62°	
Directivity (H-V) -6dB, 1KHz	78° - 30°	
Directivity (H-V) -6dB, 2KHz	82° - 11°	
Directivity (H-V) -6dB, 4KHz	175° - 10°	
Dimensions	0°: 341 x 852 x 274 mm 45°: 341 x 765 x 430 mm	
IP Rating	IP66	
Weight	30 kg	
Mounting	Mounting bracket (included)	
Connector	Screw terminal	
Terminal diameter	2,3 mm	
Maximum cable passage	4 mm²	
Colour	White	



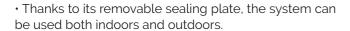




CLA-200: Compact line array 200 W - 8 Ω



- The CLA-200 is a compact speaker system configured with 4 pre-assembled modules with 4 LF cone-type and 12 HF dome tweeters for high power and quality.
- The directivity is easily adjustable. 4 angles can be chosen (15, 30, 45 and 60 degrees) as needed to optimize the sound dispersion angle.
- It can be used in low (8Ω) or high impedance (200W). The optional 100V transformer (CLA-200TR) allows the CLA-200 to be connected to a 100V amplifier when the distance between the speaker and the amplifier is very long.
- The CLA-200 features an input overload protection circuitry.

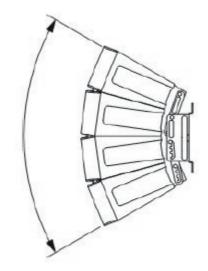




• It can be mounted to the wall or hanged from the ceiling using optional accessories, vertically or horizontally.

APPLICATIONS

- Auditoriums
- Houses of worship
- Stadiums
- Sport facilities



The figure shows the speaker system in 60° mode (factory-preset).

ACCESSORIES (OPTIONAL)



CLA-200CBK

 Wall or ceiling mounting bracket.



CLA-200FRAME

- Rigging frame.
- It allows the speaker to be hanged from the ceiling.



CLA-200TR

• 100V transformer.



When the CLA-200TR matching transformer is installed on the CLA-200 speaker, the optional CLA-200CBK mounting bracket cannot be used.

Model	CLA-200		
Enclosure	Sealed or bass-reflex (removable sealing plate)		
Power Handling Capacity	Continuous pink noise : 200 W Continuous program : 600 W		
Rated Impedance	8Ω		
Sensitivity (1W, 1m)	96dB (60° mode) 97dB (45° mode) 98dB (30° mode) 99dB (15° mode)		
Frequency Response	70 – 20,000Hz (60° mode) 75 – 20,000Hz (45° mode) 80 – 20,000Hz (30° mode) 85 – 20,000Hz (15° mode)		
Crossover Frequency	4kHz		
Directivity Angle	Horizontal : 100° (> 2000Hz) Vertical : 60° (> 800Hz), 45° (> 1.2kHz), 30° (> 1.6kHz), 15° (> 3.2kHz) variable		
Speaker Component	Low frequency : 12cm (5") cone-type × 4 High frequency : balanced dome-type × 12		
Input Terminal	2-pin connector		
Water Protection	IPX4°		
Finish	Polypropylene, black		
Dimensions (WxHxD)	408 x 546 x 342 mm		
Weight	16 kg		
Operating Temperature	-15°C to +50°C		
Accessories (included)	2 x suspension bracket		

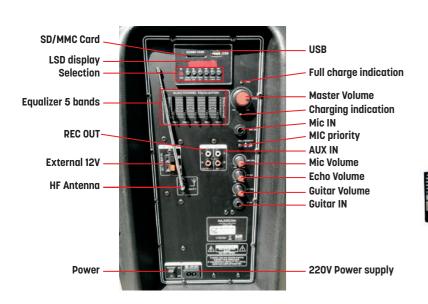
* Install with the every speaker module downward.

100V Transformer

COMBO-1580

15" active portable speaker - 80W

- Combo-1580 is a compact complete sound system with a power of 80W
- It is the perfect companion for all your commercial and sport animations
- Embedding a recharging battery with multiple sources and a 5 bands equalizer
- Including a handset HF microphone (compliant with French standard), an USB/SD card reader, an AM/FM tuner, a priority microphone input and a line input all controllable via its provided remote control
- \bullet It can work on internal battery main power supply as well on 12VDC external supply.





- · 2-way speaker 15"
- ABS enclosure, metallic grill
- Work on battery or 220/240V 50Hz supply
- Battery 2x12V 5.5Ah provided
- Automatic
- Colour LCD display with recording function
- MP3 USB/SD reader
- FM tuner
- Remote control
- 1 handset HF microphone

- 1 microphone Jack 6.35mm input
- 1 guitar input
- 1 Stereo line input
- 1 AUX input
- Adjustable level for each input, Master volume, 5 bands equalizer
- 1 12VDC supply input
- Priority microphone input selectable
- Telescopic handle and castors for easy transport

Model	C0MB0-1580	
Power	8oW	
THD	<1%	
Bandwidth (Hz)	55Hz - 20kHz	
Inputs	LINE - MIC - GUITAR	
Ouput	Line (for recording)	
Power source	5.5Ah internal battery – 12VDC external / 220V ACV external	
Sources	Media reader (USB/SD/TUNER)	
HF	Handset VHF microphone 1775.5MHz	
Dimensions (WxHxD)	480 x 740 x 440mm	
Weight	20kg	

TR 100V

100V Transformer - 8Ω

- Enables the connection of a low impedance loudspeaker on a 100V line.
- So, loudspeakers of impedance 4 or 8Ω and maximum 120W power may be deported over long distances using a 100V line.
- Integrated in a watertight box, it is specially recommended for underwater loudspeakers.





TR 100V

Closure cap

Attenuators

VC 30 / VC 60 / VC 120

30/60/120W attenuators with level reset relay

- 100V line attenuators offering a complete solution for public address.
- They have a 24VDC level reset.
- Supplied with a wall fixing
- Wall mounting available as an option: **BOITIER VC S**

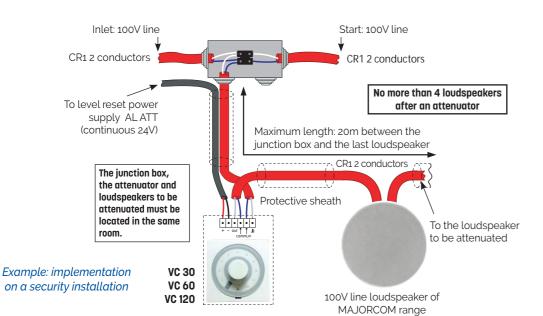






Provided wall fixing plate.

BOITIER VC S: On-wall mounting



Model	VC 30	VC 60	VC 120
Power	30W	60W	120W
Line voltage	100V		
Attenuation	g x 6dB + OFF		
Bandwidth	50 to 20,000Hz		
Level reset	24VDC 20mA		
Material	Fireproof PC		
Colour	White RAL 9003		
Operating temperature	0°C ~ 40°C		
Storage temperature	-20°C ~ 60°C		
Humidity	< 95%		
Dimensions (WxHxD)	86 x 86 x 75.5mm		
Weight	189g 326g		

AL ATT

Level reset supply for VC attenuators



- This device is appropriate for resetting the sound level on loudspeakers fitted with (local or off-set) an attenuator with level reset relay.
- This reset can be controlled by a microphone station (MAGPL) or by a "UGA" for the evacuation message.
- The level reset is made by occurrence or breakdown of the 24V. For any use with EN 54-16 products, reset is made with breakdown. An automatic reset is then necessary due to the absence of electrical power.

PUBLIC ADDRESS

Model	AL ATT
Release	24 or 48V UGA or N.O dry contact
Level reset output	24VDC
Control output	N.O dry contact
Power source	240VAC
Dimensions (WxHxD)	147 x 44 x 129mm
Weight	3kg

P ATT-19100

Panel 6 attenuators 100W 19" 10 Bearings



- 6-way PA volume controls for 482 mm (19») rack installation
- 6 audio transformers for 100 V line technique
- Connection for priority circuit, 6 priority relays (DC 24 V/20 mA)
- Attenuation in 10 steps, position 0 is OFF

- Aluminium front panel
- Available in 3 power classes
- Plug-in screw terminal
- · Wall-mounted PA volume control

Model	P ATT-19100
Frequency range	50-18,000 Hz
Power rating	6 x 100 W
Priority facility	Yes
Dimensions (WxHxD)	484 x 88 x 77 mm
Weight	2kg

Speaker line measurement

IMPE

LCR meter

- It is the essential tool for all sound installations.
- It allows to measure the complex impedance of a line loudspeaker and to know the total power and the state of the line.
- It has 3 measurement frequencies, a protection fuse, two key tips and operates on a 9V battery.



PUBLIC ADDRESS ELECTRONIC



Audio source

CD 5000-B

CD/USB/SD Card/Smartphone + Tuner RDS with Bluetooth



- Double player with an infrared remote control supplied with batteries.
- It has 2 independent sources: a tuner RDS and a CD player/SD Card/USB/Smartphone Bluetooth.
- It has two distinct modulation outputs CD/USB/SD Card/Smartphone Bluetooth and TUNER.
- Playback format: MP3, WMA, WAV.
- USB or SD Card capacity: 128MB to 16GB.
- Bluetooth is a wireless communication technology for short-range reliable and low-energy. It enables the distribution of music wirelessly from a smartphone, tablet, PC.

Model	CD 5000-B
Discs and formats	CD / CD-R / CD-RW · WAV - WMA - MP3
Tuner RDS	FM 87.5MHz/108MHz - AM 522kHz/1611kHz Preselection 30 stations Automatic station search
Inputs	Smartphone/AUX
Outputs	Two odB independent outputs RCA
Bandwidth	20 to 20,000Hz
T.H.D	<1%
Signal / Noise	> 85dB
Memories	No internal memory
Consumption power	45W
Power source	230V - 50/60Hz
Dimensions (WxHxD)	483 x 44 x 280mm
Weight	2.3kg



Rear panel



AFM: outdoor movable radio antenna

· Lets you pick up FM radio stations when there is no reception inside the sound area.

NTU-200

Network Audio Player



- The NTU-200 is a streaming Internet radio tuner that brings you all the audio content from the Internet from your broadband connection to your sound system. Through it users have access to more than 20,000 radio stations, podcasting broadcasters from more than 150 countries.
- Music player for easy navigation and playback through a USB library or music file network that includes support for AAC/AAC +, MP3, WMA, WAV formats.
- "Play To" feature allows media to be broadcast from a PC running Windows 7/8/10 to the unit running in Digital Media Renderer (DMR) mode.
- Digital radio exists, it is called DAB / DAB + for Digital Audio Broadcasting and offers the advantages of digital in terms of sound quality, resistance to disturbances and some small "plus" like the display of titles and sometimes pockets, is the DAB + which was finally chosen for the broadcasting of the Digital Terrestrial Radio (RNT) in France.

- FM Radio with RDS (Radio Data System).
- Aux in for external music sources such as MP3 players, smartphones...
- Large 2.7-inch screen for easy control and clear information display, with up to six lines of text plus status icons.
- Infrared remote control.
- Clock with automatic update function and dual independent alarm.
- · Alarm clock, timer: Sleep / Snooze.
- Multiple network profiles for easy configuration.
- Menu in 13 languages.
- Android smartphone app and IOS: Remote APP / Multi Room, ideal for changing your radio stations remotely with their icons for more visual comfort, increase or decrease the volume of your remote station, start playback of your USB remote to the display of audio tracks and much more.

Model	NTU-200
Ethernet connection / Wireless	Network (TCP/IP), RJ-45 connector / Wifi
Audio output	RCA odBu +/- 3dB
Bandwidth	20 to 20,000 (odBu +/- 3dB)
THD	< 0.5%
Signal to noise ratio	RCA > 70dB
Operating temperature	0°C ~ +40°C
Power consumption	5.6W
Power source	AC 220V, 60Hz / DC13.2V / DC 24V
Dimensions (WxHxD)	482 x 44 x 185mm
Weight	3kg



Rear panel

Audio source

CD-6208

multi-sources 6 CDs & USB player with internal SD memory



- Professional multi-source USB/CD player with internal SD memory.
- Plays WAV, MP3, and WMA audio files.
- High-quality storage of up to 6 CDs. Controls are easily accessible on front panel or through the RS-232 port.
- Features output in stereo (XLR and RCA), mono (XLR), coaxial and optical.
- Device is operable using AMX and CRESTRON systems via an RS-232 port.

Model	CD-6208
Discs and formats	CD / CD-R / CD-RW · Audio CD - MP3 - WMA
Outputs	2 x XLR L/R - 1 XLR mono RCA - 2 SPDIF (optical, analog)
Bandwidth	20 to 20,000Hz ±0.5dB
T.H.D	< 0.003%
Signal / Noise	>100dB
Memories	1 to 5 = 1GB ; 6 = 3GB (total 8GB)
Consumption power	27W
Power source	230VAC - 50Hz
Dimensions (WxHxD)	482 x 88 x 280mm · 2U
Weight	5.3kg



Rear panel

TU-6200

FM/AM Tuner, 40 stations memories, automatic scan, RS-232 protocol, XLR/RCA connector



- Memory of 40 FM/AM frequencies: 40 broadcasting frequencies can be memorized.
- · Auto Scan: Broadcast station can be selected automatically with automatic seek function.
- AMX, Crestron Interface: It supports the control port to integrate with the remote control device such as AMX and CRESTRON control systems for the user assignments.

Model	TU-6200	
Frequency range	FM: 87.5 to 108.0MHz · AM: 522 to 1629kHz	
Max output level	FM: odB · AM: -10dB	
Sensitivity	FM: 2μV · AM: 18μV	
THD	FM: 0.2% · AM: 1%	
S/N ratio	FM: 6odB · AM: 5odB	
Operating temperature	-10°C ~ +40°C	
Power consumption	7W	
Power source	100-120V AC, 220-240V AC, 50/60Hz	
Dimensions (WxHxD)	482 x 88 x 280mm - 2U	
Poids	4.2kg	



Rear panel

Messages reader

ARM-911A

Automatic digital messages reader



- · High fidelity scalable audio for excellent speech intelligibility (MP3,WAV & WMA)
- · Timer scheduled payback (can be used for school ringtones; Evacuation messages; Containment messages; or for automatic message or playlist playback)
- · Fault input monitoring and alarm via 5V reverse DC voltage with a line matching resistor at the EOL
- Scheduled playback of any of the 10 recorded messages and other via web-browser uploadable files
- Balanced audio output (variable output with -50dB/600 Ω mic level, -10dB line and +4dB selector)
- Optically coupled 10 Contact Closure and RS232 for control and status
- · Industrial grade all metal construction, shock and vibration resistant
- · Redundant Flash memory, no battery backup required
- 10 message front panel start selections and status
- · Source level, HPF and EQ adjust via web-browser

- · SD Memory Playback (2GB)
- · Non-Volatile SD Card memory (2GB)
- Multi-message(4) sequencing capability
- Crystal clear 24 bit audio quality
- Over 20 Minutes of audio storage capacity
- Up to 20kHz bandwidth
- Fault output monitoring
- Message playback output monitoring
- Web-browser Configuration
- · Source Priority setup via web-browser
- · Output Level Adjust via web-browser
- Up to 4 Remote paging mics
- Telephone paging trunk input
- · Internal program scheduler
- 24VDC Back up
- Rack mount (1U)
- **ARM-911A** 5 Dry Contact Outputs Contact Outputs 120VAC - 240VAC, 50/60Hz / 24VDC **Power Source** 16W **Power Consumption Operating Temperature** 0°C ~ +40°C 482 x 44 x 280mm · 1U **Dimensions** Weight 3,5kg Signal to Noise Ratio (S/N, 20kHz LPF, A-WTD) **Input Sensitivity** THD (20kHz LPF) -50dBU -50dBu/10kΩ ±3dB Normal: 67dB, Limit: 60dB Normal: 0.06%, Limit: 0.15% AUX 1/2 Normal: 85dB, Limit: 78dB -10dBU -10dBu/10kΩ ±3dB Normal: 0.007%, Limit: 0.02% (CH IN 20 to 20,000Hz +4dBU +4dBu/10kΩ ±3dB Normal: 88dB, Limit: 80dB Normal: 0.005%, Limit: 0.015% @1kHz) +10dBU Normal: 102dB, Limit: 95dB SD CARD -10dBu ±3dB Normal: 94dB, Limit: 87dB Normal: 0.01%, Limit: 0.04% 20 to 18,000Hz (Play MP3, OdBFS 1kHz File) RM IN (@1kHz), odBu/10kΩ ±3dB Normal: 65dB, Limit: 60dB 150 to 18,000Hz Normal: 0.3%, Limit: 0.7% (RM-911D connected) TEL IN -10dBu/10k Ω 100 to 18,000Hz Normal: 85dB, Limit: 78dB Normal: 0.007%, Limit: 0.02% (TEL IN @1KHz) **NETWORK IN** (Play MP3, OdBFS $-10dBu/10k\Omega$ Normal: 85dB, Limit: 78dB Normal: 0.01%, Limit: 0.04% 20 to 18,000Hz 1kHz File @1kHz)



Rear panel

EVP-1010-I: 10 MP3 messages digital player - Impulse mode EVP-1010-P: 10 MP3 messages digital player - Permanent mode



- EVP-1010 messages players are suitable for the venues requiring instant audio playback such as schools, industrial sites, public and private buildings, campsites, shopping centres.
- · Audio files are stored in an SD card for more convenient file management.
- User can play audio files (Total 10 audio files in MP3 format) instantly using Instant Play button on the front panel or Contact Input on the rear panel.

PUBLIC ADDRESS

- Operating mode EVP-1010-I: Impulse mode EVP-1010-P: permanent mode
- Easy management of audio files using an SD card
- 10 instant playback buttons and status lights for intuitive operation
 - 10 control inputs and outputs (dry contact)

Model	EVP-1010-I	EVP-1010-P
Operating mode	Impulse Permanent	
Audio Output Level	odBV	
Bandwidth (±3dB)	20 to 20,000Hz	
S/N (20kHz LPF)	>60dB	
THD (20kHz LPF)	< 0.1%	
Power source	220VAC, 60Hz, 24VDC	
Operating temperature	-10°C~+40°C	
Power consumption	5W	
Dimensions (WxHxD)	482 x 44 x 280mm - 1U	
Weight	2,96kg	



Rear panel

Mic Stations

GD-16-MSG

Message reader





- The GD-16-MSG is a multi-function message reader capable of storing up to 100 different messages.
- It is intended to create events (PPMS messages, actions, etc.) triggered by different devices connected via dry contacts.
- Configuration in just a few clicks via the web interface*.
- Features 16 inputs and 16 outputs.
- Front panel LEDs monitor system status.
- A powerful annual scheduler allows you to schedule broadcasts and set up for each event :
 - Event priority vs. other events
 - Description of the event
 - Playback of a message or message sequence
- Volume management per message

- Activation type (permanent / impulse)
- Trigger play/stop message or sequence
- Activation of one or more outputs





Configuration via web interface

Model	GD-16-MSG
Inputs	16 dry contact inputs
Outputs	6 dry contact outputs + 8 open collector outputs + 2 x 24V power outputs (2 x 150W) + Asymmetric o dB audio output
Connections	Euroblock terminal blocks
Storage	Up to 100 messages WAV / MP3 / OPUS
Network interface	Port Ethernet – RJ45 input (for configuration via web interface)
Audio formats	MP3/WAV/OPUS
Network	Ethernet 10/100M
Power supply	24V DC
Dimensions (L x W x H)	1U / for 19" rack : 483 x 400 x 44mm
Weight	3,1 kg
Material	Metal
Color	Black
Mounting hole spacing	465 mm

^{*} Access to the web interface via a "Wifi" device requires the GD-16-MSG to be connected to a network with a Wifi access point.

MAGPL: general call with chime remote MAGPL-D: general call with chime remote





- General calling Mic station fitted with a momentary press-release key and a quality microphone.
- Its plastic base gives stability and strength.
- Comes with a 1.80 m cable + DIN plug + XLR balanced adapter and remote control..
- MAGPL: chime remote by dry contact or cell for PAM chime (signal in short circuit on stand by)
- MAGPL-D: chime remote by dry contact (signal in open circuit on stand by)

Model	MAGPL / MAGPL-D
Сар	Unidirectional balanced
Remote control for chime	yes
Bandwidth	80 to 12,000Hz
Impedance	600Ω
Sensitivity	-70dB @ 1,000Hz
Hose length	270mm
Cable length	1.80m
Dimensions (WxHxD)	110 x 60 x 160mm
Weight	0.7kg

PUBLIC

Mic Station

Mic Station

RM-01 General call + chime



- General calling Mic station fitted with a quality dynamic microphone.
- With its small-sized microphone cap and strong base, it combines stability and design.
- Fitted with a talk key and a chime key producing a dry contact, it can fit into any kind of installation.

Model	RM-01
Model	RM-UI
Сар	Dynamic unidirectional balanced
Remote control for chime	N.O (Normally Opened)
Bandwidth	100 to 18,000Hz
Impedance	600Ω
Sensitivity	-75dB @ 1,000Hz
Hose length	400mm
Base dimensions (WxHxD)	90 x 45 x 133mm
Weight	1,4kg

RM-05A

5-zone selective call for PA-212/224; PM-236/248/260; PAM-312/336/348



- Station fitted with a high-quality electret microphone equipped with a level adjustment and a LEC volume unit metre.
- Comes with a 2m cable (7 pairs + display) SubD15 connector.
- Only works with PA-212/224; PM-236/248/260; PAM-312/336/348

Model	RM-05A
Сар	Electret unidirectional
Bandwidth	120 to 18,000Hz
Impedance	600Ω
Sensitivity	-45dB @ 1,000Hz
Hose length	400mm
Cable length	2m
Dimensions (WxHxD)	195 x 60 x 205mm
Weight	1.2kg

Mic Station

RM-6800

Compact Mic station for 6800/6100 Systems and PX-6216



- Multi-system selective call mic station
- Up to 160 zones or zone groups, plus general calls and chime generation
- Up to 1 km away from the system with a single CAT5/6 cable, thanks to RS-422 / CAN BUS communication
- Zone group configuration for the 6800/6100 system is carried out directly with the MS-6800 system management software.
- 0 ~ 9 Keys, All, Talk, Chime buttons
- 2.43" OLED display
- Output level indicator
- Monitoring speaker
- Volume control: MIC / auxiliary input / monitoring speaker / chime
- Balanced odB audio output and 16 dry-contact remote controls for RM-916/RM-616 mode
- DC 24V power input



Rear panel

Model	RM-6800
MIC input sensitivity	-50dBV
MIC output level	odBV
S/N MIC (< 22kHz LPF)	>70dB
Mic THD (<22kHz LPF)	< 0,1
MIC frequency response 100Hz±18kHz	odBV ± 3dBV
AUX input sensitivity	-10dBV
AUX output level	odBV
AUX S/N(<22kHz LPF)	>80dB
THD AUX (<22kHz LPF)	< 0,1
AUX Frequency Response 100Hz±18kHz	odBV ± 3dBV
Communication in RM-6024 MODE	RS-422
Communication distance in RM-6024 MODE	MAX : 1km
Communication in NRM-8000A MODE	BUS CAN
Communication distance in NRM-8000A MODE	MAX: 300m
Communication in RM-6016 MODE	Contact
Number of remote control contacts in MODE RM-6016	14 CH
Operating temperature	-10°C ~ +40°C
Power source	24VDC_x000D_ (When used with NRM-8000A MODE, 40VDC)
Power consumption	Max 10W
Dimensions (WxHxD)	200 x 73 x 206mm
Weight	1,29kg

RM-8000

8-zones selective call Mic Station for PX-8000



- MIC Station for use with PX-8000
- · Convenient installation and construction without need of ID setting
- Selection of various chime broadcasting for MIC (PRE/ POST)
- Priorities management (RM1>RM2>RM3>RM4)
- Internal monitor speaker
- RS-422 Communication for long distance

Model	RM-8000
Speech visualization	Yes
Chime remote control	Built-in chime
Number of zones	8
Bandwidth	60 - 15,000Hz
Signal / Noise	>65dB
THD	< 0,05%
Connection	RJ-45
Power source	24VDC, 300mA (supplied from PX-8000)
Dimensions (WxHxD)	200 x 70 x 206mm
Weight	1.5kg

PUBLIC

Mic Station

Mic Station

RM-911D

Table Mic station to trigger the ARM-911A



- The RM-g11D is a remote microphone station featuring a ten-key keypad for message playback selection. Key selection allows activation of pre-recorded message.
- The unit features a unidirectional dynamic microphone with a 14" gooseneck extension.
- An audio signal level meter is provided for displaying the signal levels at the input or output. The unit displays the ready / busy state status via a LED display.
- It can be remote powered from the ARM-911A for a distance up to 300 meters. It requires to be locally powered by an optional 24VDC when installed distance above 300m.
- Talk button can be push to talk or latch on / latch off depending on dip switch setting. A pre-announce and post announce chime is also available with a built-in 1W monitor speaker.
- Easy cat5e wiring (power, audio, communications)
- Broadcast Microphone primary supply
- Microphone Level LED output
- Selectable pre announce chime
- Status display
- 10 message start selections and status
- External Power available (24VDC Adapter)

Model	RM-911D
MIC INPUT (1kHz)	Balanced
Input Sensitivity	-50dBu ±3dB
Signal to Noise Ratio (S/N, 20kHz LPF, A-WTD)	Normal: 65dB / Limit: 60dB
THD (20kHz LPF)	Normal: 0.3%, Limit: 0.7%
Frequency Response (+1/-3dB)	150 to 18,000Hz
Monitor Amp	0.5W 16Ω
Maximum Operable Distance CAT5E (50°C)	Cable resistance ≤ 30Ω: 300m / Cable resistance ≤ 80Ω: 100m
Operating Temperature	-10°C ~ 40°C
Power Source	24VDC (From ARM-911A)
Power Consumption (From ARM-911A DC 24V)	4.8W
Dimensions (WxHxD)	200 x 67 x 206mm
Weight	1,37kg

RM-911W

Wall Mic station to trigger the ARM-911A



- The RM-g11W is a surface wall-mounted remote microphone station featuring a ten-key keypad for message playback selection. Key selection allows activation of pre-recorded message.
- The unit features a unidirectional dynamic tear-drop, push-to-talk hand held microphone with a retractable coil type cable extension.
- An audio signal level meter is provided for displaying the signal levels at the input or output. The unit displays the ready / busy state status via a LED display.
- It can be remote powered from the ARM-911A for a distance up to 300m. It requires to be locally powered

by an optional 24VDC when installed distance above 300m.

PUBLIC ADDRESS

- Easy cat5e wiring (power, audio, communications)
- Broadcast Microphone primary supply
- Microphone Level LED output
- In Use Status display
- 10 message start selections and status
- Up to 4 Remote paging mics can be connected to one ARM-911A
- External Power available (24VDC Adapter)

Model	RM-911W	
MIC INPUT (1kHz)	Unbalanced	
	5 100 500000000000000000000000000000000	
Input Sensitivity	-50dBu ±3dB	
Signal to Noise Ratio (S/N, 20kHz LPF, A-WTD)	Normal: 63dB / Limit: 58dB	
THD (20kHz LPF)	Normal: 0.3%, Limit: 0.7%	
Frequency Response (+1/-3dB)	150 to 18,000Hz	
Monitor Amp	0.5W 16Ω	
Maximum Operable Distance CAT5E (50°C)	Cable resistance ≤ 30Ω: 300m / Cable resistance ≤ 80Ω: 100m	
Operating Temperature	-10°C ~ 40°C	
Power Source	24VDC (From ARM-911A)	
Power Consumption (From ARM-911A DC 24V)	2W	
Dimensions (WxHxD)	261 x 188 x 46mm	
Weight	1,7kg	

DANTE™ Mic Station

RM-N3000

IP Remote Mic Station for NCS System

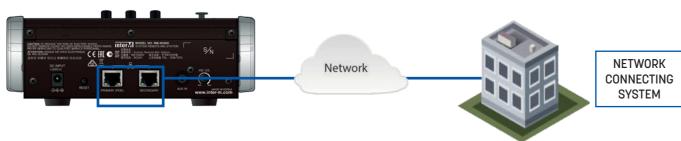
• RM-N3000 is a network only remote MIC station for paging broadcasting to each zone which can network broadcasting by select AOE / VoIP / AVB protocol.

• In addition, users can easily set options, select zone and broadcast with high resolution OLED, 10-KEY button on the front panel.

- MIC/external input (AUX) selectable broadcast
- Automatic chime broadcasting
- · Configurable 5 Preset buttons
- Output LEVEL METER LED
- · Audio output via built-in speaker
- DC 24V (adapter available)
- Supporting VoIP / AVB / AOE streaming
- · Supporting 100 / 1000Mbps
- Supporting DHCP, STATIC IP
- Supporting network bonding (AOE)



• Even if the first network fails, stable broadcasting is possible to the second network due to network redundancy.











- · STATIC/DHCP/ZEROCONFIG
- 100/1000 Network
- Support network bonding (AOE TCP MODE)

Teaming or **bonding** of network interfaces a server is used to combine 2 network interfaces in one virtual network interface. The network interface thus obtained can be configured as a normal network card.

One of the advantages is that in case of failure of a network card, the virtual interface continues to function as if nothing had happened. Another important advantage is that the ability 2 cards forming the virtual network interface can be combined to split the speed of your network connection.

Model	RM-N3000
Input sensitivity	MIC: -50dBV / AUX: -10dBV
Output level	odB
S/N (<22kHz LPF)	MIC > 70dB / AUX > 80dB
THD (<22kHz LPF)	< 0.1%
Bandwidth	100 to 18,000Hz (+/-3dB)
Communication	Ethernet Network (100Mo / 1Go)
Power Source	24VDC
Consumption	Max. 10W
Dimensions (without Mic)	200(X) x 73(H) x 206(D)mm
Operating T°	-10°C ~ +40°C
Weight	1.29kg

ALIM 24VDC 1.25A 220V/24VDC - 1.25A - 30W power supply



DANTE DMIC 3

Dante™ Microphone console

• DANTE DMIC 3 is a Dante-enabled desktop electret condenser gooseneck microphone. Desktop base allows microphones to be used in multipurpose or conferencing rooms, retail stores, or large installations with big distances between the sound sources where digital audio via ethernet is the perfect solution.

• The desktop base includes a 3-pin XLR type input connector for the microphone and a Dante ethernet output connector enabling direct connection to the digital audio network. The user button with integrated red indicator permits advanced local control.

KEY FEATURES

- Dante enabled electret condenser microphone
- Wide dynamic range and frequency response
- Accurate sound reproduction
- Cardioid pattern
- Powered by PoE
- Integrated user switch control on/off
- Red LED indicator when active
- Local rotatory microphone gain control



APPLICATIONS

- Retail Stores
- Bars, clubs and restaurants
- Fitness Centers, hotels, schools

Model	DANTE DMIC 3
Microphone Type	Electret Condenser
Frequency Response	40Hz -16kHz (+0 -0.5dB)
Input Impedance	2.2kΩ
Max Input	odBu
Polar Pattern	Cardioid
Sensitivity	-44dB
Power Requirements	PoE IEEE802.3af
Power Consumption	15W
Dimensions (HxWxD)	370 x 103 x 157mm
Weight	1,3kg





Gooseneck-shaped Microphones

MD-510V

Unidirectional dynamic handheld microphone





- · Unidirectional dynamic microphone with excellent frequency characteristics for voice and instrumental sound reproduction.
- · Suitable for professional vocal by reinforcing mid and bass characteristics.
- Strong durability.

Model	MD-510V
Frequency Response	55Hz ~ 16kHz
Sensitivity	-75dB ±3dB
Impedance	600Ω ±30%
Dimensions	Ø 51 x 174 mm
Weight (without cable)	250g ±10g
Poids	260 g



- Microphone stand with boom arm. Adjustable height, angle and extension. Equipped with a folding tripod ensuring good stability.
- Height adjustment: 960 to 1500mm



MS 94

- Microphone stand for tabletop or console with flange and heavy chrome rod.
- Threads 3/8" and 5/8"
- Dimensions: 110 x100mm
- Weight: 0.43kg



- · Black plastic microphone clip.
- Ø mini.: 28mm

MIC FLEX-400 / MIC FLEX-450 / MIC FLEX-610P

Gooseneck-shaped microphones



MIC FLEX-400

- Dynamic gooseneck-shaped microphone
- Balanced model
- Cardioïd
- Threaded element M10 (8mm long)
- To be mounted at front panel or on microphone stand
- Total length 385mm



MIC FLEX-450

- Gooseneck-shaped dynamic microphone
- Balanced switching
- Cardioïd
- XLR 3-poles connection
- Comes with microphone's wind-screen WS-40
- Total length 450 or 700mm



MIC FLEX-610P

- · Electret gooseneck-shaped microphone with red illuminated ring
- Cardioïd
- Windscreen
- Threaded part: Ø 10mm x 40mm
- \cdot To be mounted at front panel or on microphone stand
- Total length 450mm

Feel free to get in touch with us for any other kind of MIC Flex (lenght, connexion, ...).

Model	MIC FLEX-400	MIC FLEX-450	MIC FLEX-610P
Bandwidth	50 to 12,000Hz	80 to 16,000Hz	100 to 16,000Hz
Sensitivity	-74dB ±3dB	1.4mV/Pa/1kHz	4mV/Pa/1kHz
Impedance @ 1kHz	350Ω	500Ω	1,000Ω
Connection	unplugged cable	XLR	unplugged cable
Dimensions	Ø 56 - L 168mm	Ø 30 - L 450mm	Ø 13/19 - L 450mm
Weight	324g	222g	190g

Boudary Microphone

MEB 102 W

Install boundary layer microphone



- Compact and unobtrusively designed, the boundary layer microphone MEB 102 W (omnidirectional) fits any style of interior and can be easily installed into surfaces such as tables or ceiling tiles.
- Each of them features approved Sennheiser microphone capsule for the best speech intelligibility, and is protected by a rugged housing.
- · Unobtrusive, timeless design
- · Optimized for speech
- Made in Germany

Model	MEB 102 W
Transducer	Pre-polarized condenser microphone
Directivity	Omnidirectional
Frequency response	40Hz ~ 20kHz
Impedance	200Ω
Sensitivity	16mV/Pa
SPL max	125dB
Dynamic range	104dB (A)
Phantom power	24-48V
Connector	XLR 3PM
Dimensions (ØxH)	28.5 x 83mm
Weight	58g

ALIM PHANTOM



· Provides 48V phantom power.

Wireless Microphones

MICRO-HF EW-D MAIN: hand transmitter and digital wireless receiver set MICRO-HF EW-D CRAV: lavalier transmitter and digital wireless receiver set MICRO-HF EW-D CASQ: headphone transmitter and digital wireless receiver set



MICRO-HF EW-D MAIN

MICRO-HF EW-D CRAV

MICRO-HF EW-D CASQ

- Versatile and feature-rich digital wireless system for those who sing, speak or play instruments that allows for seamless product pairing and management via the EW-D Smart Assist App.
- "Digital wireless" eliminates noise, interference and static
- UHF transmission greatly enhances range, reliability and
- · Mobile App streamlines setup and operation and eliminates complicated menus
- Automated setup creates reliable connections with minimal time and effort
- Up to 2,240 selectable frequencies
- Transmission range: up to 100m in an ideal environment (without obstacles)
- · Lithium Ion battery pack delivers up to 12 hours of operation (up to 8 hours of operation with AA batteries)
- 56MHz Bandwidth will allow for up to 90 channels
- Preserves every detail of even the most dynamic performances with 134dB transmitter dynamic range

MICRO-HF EW-D MAIN

• Enjoy state-of-the-art live sound delivered by an ultra-light portable transmitter equipped with Sennheiser's famous e 835 capsule and an integrated mute button.

MICRO-HF EW-D CRAV

- The robust bodypack transmitter with metal housing and the discreet lavalier microphone (cardioid) with excellent voice intelligibility are ideal for everyday use on stage.
- · Cardioid lavalier microphone equipped with a gold-plated connector.

MICRO-HF EW-D CASO

- The robust bodypack transmitter with metal housing and the headset microphone with excellent voice intelligibility are ideal for everyday use on stage.
- Cardioid headband microphone equipped with a gold-plated connector.

Contents of sets

MICRO-HF EW-D MAIN	MICRO-HF EW-D CRAV	MICRO-HF EW-D CASQ
Rack receiver	Rrack receiver	Rack receiver
Handheld transmitter	Bodypack transmitter	Bodypack transmitter
Microphone module	Lavalier microphone	Lavalier microphone
Microphone clamp	• 2 rod antennas	• 2 rod antennas
• 2 rod antennas	Power supply with country adapters	Power supply with country adapters
Power supply with country adapters	· Rackmount set	· Rackmount set
· Rackmount set	• 4 rubber feet	• 4 rubber feet
• 4 rubber feet	· Quick guide	Quick guide
Quick guide	Safety guide	Safety guide
Safety guide	Manufacturer declaration sheet	Manufacturer declaration sheet
Manufacturer declaration sheet		

Wireless Microphones



Wireless Microphones

EW-D CHARGING SET: Charging set for transmitter



• The set includes an L 70 USB charger, 2 BA 70 rechargeable batteries and a power supply for use with the bodypack and the handheld transmitter from the MICRO-HF EW-D series.

MICHF-PRO MAIN: hand transmitter and wireless receiver True Diversity set MICHF-PRO CRAV: clip-on transmitter and wireless receiver True Diversity set MICHF-PRO CASQ: headphones transmitter and wireless receiver True Diversity set







MICHF-PRO MAIN MICHF-PRO CRAV

MICHF-PRO MAIN

- This Set takes user to the front of stage. The micro capsule guarantees a great insensitivity to acoustic clashes with the already legendary head e 835.
- Easy to use, the MICHF-PRO MAIN is ready to use for any presenter.
- Capsule e 835 for high levels on
- Strong insensitivity to the larsen
- "Mute" button for a total control
- Remote synchronization via HF
- Adjustable frequencies by 25kHz steps
- 24MHz band width (13MHz for the E band)
- 8 frequency bands allowing up to 12 presets each
- · Rackmount set included

MICHF-PRO CRAV

- Virtually invisible, this presenter set all-in-one is ideal for stunning presentations.
- The clip-on professional microphone ME 2-2 easily attaches to your clothing, ensuring a faithful and powerful transmission of your voice to captivate your audience.
- Easy-to-use, the MICHF-PRO CRAV is ready to use for the presenter.
- Clip-on microphone almost invisible
- Very high speech intelligibility
- "Mute" button for a total control
- Remote synchronization via HF
- Adjustable frequencies by 25kHz
- 24MHz band width (13MHz for the E band)
- · Rackmount set included

MICHF-PRO CASO

- Lightweight and comfortable, this package offers you a total freedom of movement, the guarantee of an impressive and lively performance.
- The professional cap of the headworn microphone ME 3 delivers a crystal clear sound, even in noisy environments.
- Easy to use, this set is ready to use for the presenter.
- · Hands-free
- Exceptional sound quality
- "Mute" button for a total control
- Remote synchronization via HF
- Adjustable frequencies by 25kHz
- 24MHz band width (13MHz for the E band)
- · Rackmount set included

Source

EW-D EM: rack receiver



1/2 19" rack receiver for use with Evolution Wireless Digital handheld and bodypack transmitters. Versatile and feature-rich digital wireless system for those who sing, speak or play instruments that allows for seamless product pairing and management via the EW-D Smart Assist App. Receive state-of-the-art live sound.

- Digital wireless eliminates noise, interference and static bursts
- UHF transmission greatly enhances range, reliability and
- · Mobile App streamlines setup and operation and eliminates complicated menus
- · Automated setup creates reliable connections with minimal time and effort
- Up to 2,240 selectable frequencies
- 56 MHz Bandwidth will allow for up to 90 channels
- · Preserves every detail of even the most dynamic performances with 134 dB transmitter dynamic range
- All metal housing

DELIVERY INCLUDES

- EW-D EM rack receiver
- 2 rod antennas
- power supply with country adapters
- rackmount set
- · 4 rubber feet
- quick guide
- safety guide
- manufacturer declaration sheet



Rear panel

PM-835: USB, BT, FM, AUX IN, Micro SD Wall Multimedia Plate - 2 x 10W - 8Ω

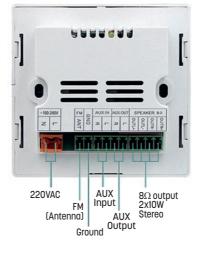
- Standard case 86mm, sleek design with LED screen
- Integrated high efficiency amplifier 2x10W at 8Ω
- Built-in music source: USB, Micro SD, Bluetooth and FM, AUX inputs and outputs
- Can store 20 radio channels, supports automatic and manual search
- Bandwidth: 20Hz ~ 20kHz for an excellent musical effect
- · With IR remote control for more convenient use

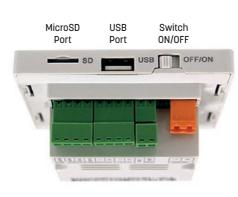




- The PM-835 is a practical and effective wall-mounted multimedia player. With a neat and refined design, this wall plate offers you many audio sources, including FM radio, a micro SD card reader, a Bluetooth receiver, and a USB drive, AUX1 auxiliary input and AUX2 auxiliary output.
- The PM-835 supports the most common audio formats such as MP3, WMA, WAV, AAC, FLAC, etc. and the FM radio can store and store up to 20 radio stations.
- This multimedia player also includes a digital amplifier Class D type which delivers a power of 2x10W RMS with an impedance of 8Ω with a frequency response of 20Hz-20kHz.
- This deck also comes with an infrared remote control for convenient and comfortable use, its LED display screen allows you to see the selected source, time, title and the total number of songs on the screen.

Model	PM-835
Output power	2 X10W
Impedance	8Ω
Harmonic Distortion Rate	≤0.03% (1kHz, 1W, 8Ω)
Signal to Noise ratio	> 81dB
Frequency response	20Hz -20kHz
Max capacity Micro SD card	32GB
Audio Format	MP3, WMA, WAV, AAC, FLAC
Bluetooth	BT2.1+EDR
Power	AC 100-240V/50-60Hz
Dimensions (W x H x D)	86 x 86 x 38mm
IR Remote control	Range 8-12m A +/-60 ° directionality
AUX1 Input Sensitivity	Stereo Unbalanced 0dB
AUX2 Output Sensitivity	Stereo Unbalanced odB





Mounting surface included



In Wall Mounting (optional) **BOITIER PM E**

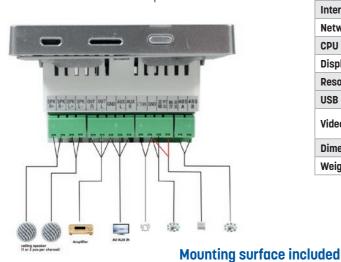




Source

PM-839: USB, BT, FM, AUX IN, Micro SD Wall Multimedia Plate - $2 \times 25W - 8\Omega$

- · Standard 86mm case, sleek design with 4" TFT color touch
- Integrated high efficiency amplifier 2x25 W at 8 Ω .
- · Android 7.1, 1GB memory expandable to 32GB by micro
- Resolution 480*480 IPS.
- · Integrated music sources: micro USB, Micro SD, Bluetooth and applications, AUX input, AUX output and an RS485
- · RJ45 ethernet connection or WIFI.
- · Dry contact On/Off.
- 20Hz ~ 20kHz bandwidth for excellent musical effect.
- The PM-839 is a practical and efficient wall-mounted multimedia player. With a sleek and clean design, this board offers many audio sources (micro SD card reader, Bluetooth receiver, micro USB OTG reader), an AUX input, an AUX output and an RS485 communication port.
- The PM-839 supports the most common audio formats such as MP3, WMA, WAV, AAC, WAW, APE, OGG, etc.
- The PM-839 supports the most common video formats such as MPEG1/2/3/4, RM/RMVB, WMV, MOV, MK, VOB, AVI, 3GP, H264, etc.
- · This multimedia player also integrates a class D digital amplifier which delivers a power of 2x25W RMS under an impedance of 8Ω with a frequency response of 20Hz-20 kHz.
- Its 4" TFT color touch screen display allows for user-friendly and modern operation.
- The PM-839 also comes with an infrared remote control for convenient and comfortable operation.







Model	PM-839
Power output	2 x 25W
Impedance	4/8Ω
THD	≤0.03% (1kHz, 1W, 8Ω)
Signal to noise ratio	> 98dB
Frequency response	20Hz -20kHz
Max micro SD card capacity	8 to 32GB
Audio Format	MP3, WMA, WAV, AAC, WAW, APE,OGG
Bluetooth	BT4.0 / max range 10 meters
Power supply	AC 100-250V/50-60Hz
IR remote control	Range 8-12m at +/- 60° directionality
AUX input/output sensitivity	odB unbalanced stereo
System	Android 7.1 without Google service
Internal memory	1GB
Network	Ethernet RJ45 / WIFI
CPU	Cortex 1.2G (Quad Core)
Display	4" touch screen
Resolution	480*480 IPS
USB	OTG USB 2.0
Video Format	MPEG-1-2-3-4, RM/RMVB, WMV, MOV, MK, VOB, AVI, 3GP, H264, etc.
Dimensions (L x H x P)	86 x 86 x 38 mm
Weight	0.7 kg

In Wall Mounting (optional) **BOITIER PM E**





LM-306

IP (PoE) panel for triggering messages for ARM-911A

LM-306 is a compact 6-button remote control ideal as a user interface keypad in an ARM-911A message control system.



PUBLIC ADDRESS



- Clear and Customizable User Interface: RGB-color, tactile feedback, backlit buttons with custom labeled, removable button caps, allowing simple and intuitive end-user and guest control over facility deployed devices and systems.
- Programming: all you have to do is modify or add the IP address of the ARM-911A assigned to you by your network administrator (this operation must be carried out during commissioning).
- Easy and Cost-effective Installation: compactly fits into standard US, EU and UK 1-gang in-wall box size, allows decorative integration with room deployed user interfaces such as electrical switches. Keypad installation is fast and cost-effective via a single LAN cable providing both power (PoE) and communication connections.

Model	LM-306
Enclosure	1-Gang EU Control Keypad
Ports	1 Ethernet: On an RJ-45 female connector for PoE, device configuration, controland firmware upgrade
General	Default IP Settings DHCP Enable
Power	Source: PoE or 12V DC 2A power supply
Consumption	12V DC, 780mA
Operating T°	0°C ~ 40°C
Stockage T°	-40°C ~ 70°C
Humidity	10% to 90%, RHL without condensation
Accessories	Included: 12V DC power adapter, special tool to remove button caps, standard button label set (8.8 x 8.8mm)
Dimensions (WxHxD)	80 x 80 x 47mm
Weight	100g
Regulatory	CE, UL, RoHs, WEEE

PUBLIC

Source

Source

LM-911A

Wall remote message control plate for the ARM-911A



- It's a wall remote control device to control the ARM-911A's first 4 audio sources in a remote location by synchronizing with the ARM-911A. It connects to the RM contact port of ARM-911A, and uses the RS-422 communication method. By pushing any of the 4 different buttons on the front panel, users can control the first 4 audio sources remotely.
- Connect up to 4 x LM-911A or 4 Paging MIC RM-911A on your ARM-911A
- Dimensions (W×H×D): 114×70×50mm
- Weight: 123g



Automatic digital messages player (see p.148)

ARM-911A

PE LM-8000 flush-mounting plate (included)



BS-LM8000 case enabling surface mounting (optional)



ATT-BOX
Box booking
masonry
(optional)



M-ZR-PPMS

PPMS control panel





- The M-ZR-PPMS is a 4-button box for triggering prerecorded PPMS/PPI/POI messages.
- It is compatible with ARM-911A, EVAMATRIX, EVP-1010-P, NAI-1104 and IP-1015BX products.
- It can trigger up to 4 different messages.
- Each button can be programmed according to the message reader it is associated with in order to broadcast the desired message.
- Each button operates in ON/OFF mode. The first press triggers the message, the second stops it.
- Several M-ZR-PPMS units can be cascaded to meet all your needs.

APPLICATIONS

- Elementary schools
- High schools
- Middle schools
- Boarding schools

Model	M-ZR-PPMS
Number of buttons	4
Connection	Screw-type
Power supply	Without power supply Dry contacts
Dimensions	167 x 88 x 50 mm
Color	Housing : White Lexan : Black and Grey
Material	Shockproof ABS
Weight	0,500 kg

PUBLIC ADDRESS

Source

Source

LM-8000

Animation deck for PX-8000



- Local animation deck with audio In
- For use with PX-8000
- Convenient installation and construction without need of ID setting
- Remote volume control and selection of BGM
- Independent local MIC and BGM broadcasting

- Jut out mounting, classic electric enclosure
- RS-422 Communication for long distance
- Dimensions (WxHxD): 70 x 114 x 52mm
- Embedding dimensions: 50 x 70mm
- Weight: 130g

PE LM-8000 flush-mounting plate (included)



BS-LM8000 case enabling surface mounting (optional)



ATT-BOX
Box booking
masonry
(optional)



BA-MIX

2-Channel Wall-Mounted Audio Mixer

- It allows mixing an unbalanced stereo signal (2xRCA) with a MIC signal (XLR), obtaining a balanced mono output that can be sent to preamplifiers, amplifiers, digital or analog matrices, etc., thus saving inputs to the receiving device.
- The MIC input includes a 2-band equalizer (bass, treble) and can use the talk-over function to fade the RCA line signal when the microphone input exceeds the talk-over detection threshold.



KEY FEATURES

- Unbalanced stereo line input (2xRCA)
- Balanced MIC input with BASS and TREBLE controls and selectable phantom power
- Independent volume controls for LINE and MIC inputs
- Talk-over function available (MIC on LINE)
- External power supply required (15 V DC or 24 V DC)
- Surface mount box included
- Available in white color (RAL 9016)

APPLICATIONS

- Hotels
- Buildings
- RestaurantsShops
- Exhibition centersAnd much more...
- Shopping centers

DA MIV	
BA-MIX	
LINE: -10dBV / 10k Ω • MIC: -40 or -20dBV* / > 1k Ω (*internally selectable)	
odBV / 600Ω (max. +17dBV)	
LINE: 5Hz - 30kHz · MIC: 10Hz - 40kHz	
LINE: < 0.005% • MIC: < 0.01%	
MIC: > 55dB @ 1kHz	
LINE: > 105dB · MIC: > 90dB	
BASS: 100Hz ± 10dB • TREBLE: 10kHz ± 10dB	
-30dB/ 3 s aprox.	
+15VDC	
15VDC or 24VDC (min. 30mA)	
25mA	
86 x 86 x 30mm	
125g	

Optional accessories



Box for surface installation MODULE SAILLIE BA



Wall recessed box BOITIER PM E



MOD TEL 2

Analog telephone interface with messages reader



- It is an easy-to-use interface which combines in a single product functions of a phone line announcer and a digital messages reader.
- When it is connected to a PA system, simply plug the analog telephone line into the product and dial its number to broadcast an announcement from any phone.
- It can broadcast recorded digital messages which can also be triggered from the 6 GPI.
- DTMF messages triggering and many other settings are possible by following simple configurations.
- Audio files can be customized to match the announcement or alert messages required by each institution.
- MP3 or WAV supported digital audio format allows you to broadcast quality messages previously stored in the integrated SD card provided and with the MOD TEL 2.

Model	MOD TEL 2	
Output	1V, 600Ω, balanced	
Output relays	30V, 50mA	
Settings	volum and chime tonality, output level, busy tonality	
Power source	AC 240V - 12 to 24VDC	
Dimensions (WxHxD)	126 x 40 x 115mm	
Weight	0.310kg	



Rear panel

CIA-14

Voice remote control



- This module provides a dry contact (NO or NC) when audio signal is present on its input in order to control for example an amplifier on or off.
- The dry contact release time can be set: 0, 10 or 30 seconds.
- The input is a Mic / line level adjustable and the output is a OdB symmetrical.

Model	CIA-14	
Input	Mic/Line balanced	
Output	odB balanced	
Release time	0, 10 or 30s	
Frequency response	20 to 20, 000Hz	
Power supply	12VDC 500mA	
Dimension (WxHxD)	93x52x27.8mm	
Weight	120g	
Dimension (WxHxD)	93x52x27.8mm	

Digital audio Matrix

PX-6216

14x8 digital audio matrix up to 32 mic stations



- This DSP-based 14 x 8 digital audio matrix is configured, controlled and monitored by a PC via the MS-6800 custom system control software.
- The PX-6216 is designed to provide professional quality sound and intelligibility with the high performance required for mass notification.
- This matrix offers up to 8 priority levels per fade output (via its modulation detection system).
- MIC/LINE inputs with 7-band EQ, input/output volume control and mixing.
- · 6 presets and control (Preset).
- CD-6208 / TU-6200 / ARM-911A type external source control...

- 8 balanced audio outputs
- High S/N ratio
- Good dynamic range without compression
- The system offers a cost-effective solution for background broadcasting and mic calls.
- Supports full two-channel stereo sound
- 4 RJ45 ports for multi-zone call microphone expandable up to 32 via the RME-6108
- 8 mic/line inputs (2 with phantom power)
- 2 unbalanced line inputs

Model	PX-6216		
Output	odBV balanced		
Inputs	EM, TIMER, RM: -10dB balanced / LINE 1-8: -10dB balanced MIC 1-8: -50dB balanced / LINE 9, 10: -10dB unbalanced		
Bandwidth ±3dB	20 to 20,000Hz		
THD	LINE < 0,01% / MIC < 0,1%		
Signal/Noise	LINE > 85dB / MIC > 60 B		
Max Signal/Noise	> 100dB (+8dBV input)		
Phantom power source	1, 2 : 24VDC		
Priority	RM1 > RM2 > RM3 > RM4 > BGM		
Communication	LINK IN/OUT: RS-485 (Max. 1km) / RM: RS-422 (Max. 1km) / Source: RS-422 (Max. 12m)		
Operating temperature	-10°C ~ 40°C		
Power source	24VDC, 1A		
Dimensions (WxHxD)	482 x 88 x 280mm · 2U		
Weight	4.3kg		



Rear panel

PX-6216 compatible equipments and accessories

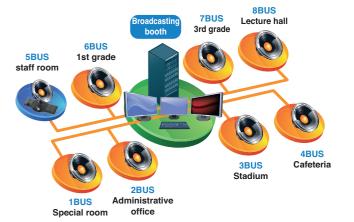


Applications

Educational institutions

Schools, Universities and Colleges, Training facilities

- Educational institutions often need to make scheduled broadcasts and send messages instantly to specific zones over long distances, for instance across a building or campus.
- The PX-6216 matrix allows personalized and scheduled calls to be made in classrooms and thanks to its high quality audio system, it can broadcast, on demand, audio streams in specific areas (classrooms, conference rooms, amphitheatres, etc.).



Public spaces

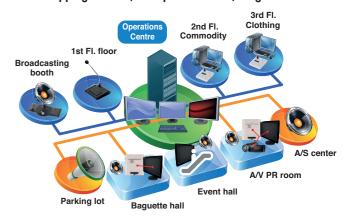
Office buildings, Train stations, Airports, Hospitals...



Some zones of public spaces may require soft background music, while others may need frequent announcements, whether scheduled or live. PX-6216 matrix has a flexible broadcasting and sound source feature, which lets you control the sound source for the entire network, making it the ideal system for use over networks.

Commercial establishments

Shopping centres, Multiplex theatres, Large hotels...



Commercial establishments require various types of background music coming from local sources and specific announcements that vary according to zone. The PX-6216 matrix allows flexible control and broadcasting from various locations, such as the command centre, the information centre, or service centres.

Digital audio Matrix

PX-6120

6x6 amplified Matrix with USB/SD/FM/BLUET00TH



PX-6120

- 6 zone amplified matrix with 6 outputs of 120W.
- 4 audio inputs, 1 integrated source and 1 super priority EMC input.
- MP3/FM/Bluetooth player, 3 mic/line inputs, auxiliary input and EMC priority input.
- 6 amplifier channels that can receive the chosen audio source or input individually, volume control of the zones.
- 6 zone amplified matrix with remote volume control and remote microphone.
- 6 RJ45 connections that can accommodate remote microphones and or wall volume plate up to 200 meters by cat5/6 cable.
- 6 zones of loudspeaker outputs in 100V or 4/8 Ohms.
- 3 switchable XLR balanced mic/line inputs with 48V phantom power.
- 1 auxiliary input and a built-in USB/SD/FM and Bluetooth player can be switched per matrix to one of the 6 zones independently.
- 6-zone selective microphone desk.
- USB/SD/FM audio player and remote control.
- 24V control to trigger an alarm message (editable).



LM-6000

Bluetooth wall control panel

- Communication by CAT 5 cable up to 200 meters.
- · Self-powered directly by the matrix.
- Source selection and volume control.
- Touch panel.
- Up to 6 plates per PX-6120 matrix.
- Dimensions: 86 x 86 mm.

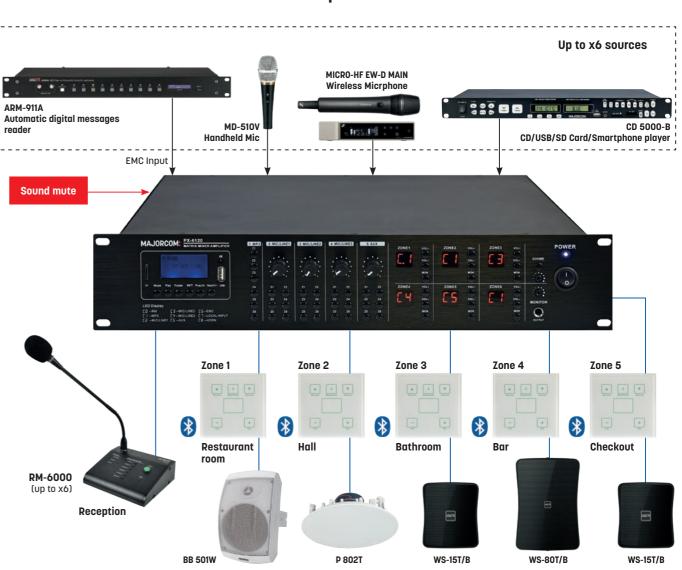




PX-6120 technical specifications

Model	PX-6120	
Zones	6	
Rated output power	6×120W	
Speaker output	100V & 4-8Ω	
Inputs	Mic/line1-3: 2,5mV, balanced XLR input with 48V phantom power, Line 1-2: 250mV, RCA Mute: 250mV, Phoenix connector	
Remote mic	Up to 6 RM-6000 per matrix PX-6120MX	
Wall plate volume/source	Up to 6 LM-6000 per PX-6120MX matrix	
Bandwidth	80Hz - 16,000Hz	
THD	< 0,1%	
S/N ratio	>70dB	
Protection	High temperature, short circuit and overload protection.	
Power source	AC230V or AC110V, 50-60Hz	
Power consumption	900W	
Dimensions (WxHxD)	484 x 88 x 320mm	
Weight	15,5kg	

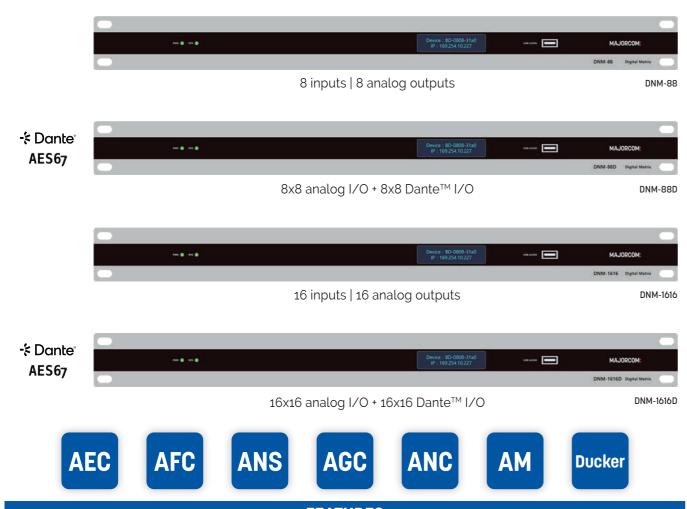
PA example: HOTEL



Digital audio Matrix

DNM-88 · DNM-88D · DNM-1616 · DNM-1616D

Programmable digital audio matrix processors



FEATURES

- DSP processing: 400 MIPS, 1,6 GFLOPS.
- Sampling rate: 48 kHz, ± 100 ppm.
- THD+N: <-94dB @4dBu.
- Input dynamic range: 110dB.
- Output dynamic range: 112dB.
- The processing modules are configurable and freely interchangeable as required.
- 8 units available for in-line operation simultaneous.
- Built-in USB sound card with one input and one output, supporting music playback, recording and soft video conferencing.
- For example: ZOOM, Teams, Tencent meeting, etc.
- Bus-based ACS, waiting time: 512 ms, convergence rate: 60 dB/S, echo cancellation amplitude: 60 dB.
- · AFC (feedback suppression) for independent channels with trap-type algorithm, amplitude of sound transmission gain improvement: 10 dB.

- Noise suppression (ANS), improved ratio S/N of 18 dB.
- Priorities (Ducker).
- Noise gain compensator (ANC).
- Automatic gain sharing mixer (AMC), Automatic gate mixer (Gate Mixer).
- 12-band parametric EQ with 5 filter options.
- Parametric, Lowshelf, Highshelf, Lowpass, Highpass.
- Customizable interface for the end user, up to 30 units with the same interface management; support for camera tracking.
- With 8 GPIO channels.
- With centralized control function, support for: RS232, RS485, UDP three kinds of control mode.

DNM Serie technical specifications

Model	DNM-88	DNM-88D	DNM-1616	DNM-1616D
Processor	ADI SHARC 21489 @450 MHz SIMD	ADI SHARC 21489 @450 MHz SIMD x2	DI SHARC 21489 @450 MHz SIMD	ADI SHARC 21489 @450 MHz SIMD x2
Sampling rate/quantification bits		48K/	24bit	
Number of analog input and output channels	8x8	8x8	16x16	16x16
Number of Dante input and output channels		8x8		16x16
Input gain	0/	3/6/9/12/15/18/21/24/27	7/30 33/36/39/42/45/48 c	lBu
Phantom power supply	+48V/10mA max			
Frequency response (20 ~ 20kHz)	±0.3dB			
Maximum level	+18dBu			
THD+N	<-94dB @4dBu			
Input dynamic range	110dB			
Output dynamic range	112dB			
Channel isolation at 1kHz	108dB			
Input impedance (balanced connection)	5.4ΚΩ			
Output impedance (balanced connection)	600Ω			
System delay	<3ms			
Power supply	AC110~240V, 50Hz/60Hz			
Dimensions (W x D x H)	482x260x45mm			
Weight with packaging	4 KG			



LM-W

Platine murale de contrôle

Programmable IP/PoE wall control panel to control the volume and the choice of sources remotely.

- Gain control / Mute / Presets / Matrixing
- · Built-in or surface-mounted



W-TAB10

10" touch screen

Permet de contrôler le volume, la sélection de la source sonore, lancer des Presets, etc.

- 10/100Mb Ethernet network connection
- POE or external power supply
- 1280x800 px resolution, 16:9 format



RM-8

8 zones remote microphone for DNM-88 & DNM-88D

- · Balanced output audio signal
- Input: 12VDC
- · RS-485



DW-BT

Platine murale Dante et Bluetooth



PUBLIC ADDRESS

Converts analog audio signals, Bluetooth into digital Dante signals.

PoE power supply.

SUPPORT VESA TABLE:

adjustable desk standfor W-TAB10

wall mount or rackfor W-TAB10





SUPPORT VESA MURAL:

PA example: SWIMMING POOL

PUBLIC ADDRESS

PX-8000

8 OdB inputs Matrix - 4 Micro inputs



PX-8000

- · Audio Matrix for the sound system and emergency messages broadcasting
- Priorities management
- Loudspeaker for monitoring
- Numerous audio inputs (Music, Microphone station, local audio Source, Microphone)
- Easy Installation without configuration of ID
- Message recording from a microphone and playback of the message activation by dry contact zone after zone
- Communication via Long distance special RS-422
- · Selectable chimes Broadcasting (PRE/POST announce-
- Control of the tone over the outputs (Bass/ Treble)
- Display of input and output levels

Model	PX-8000	
Audio output	odB (balanced)	
Audio input	-50dB (balanced)	
Bandwidth	BGM: 60Hz ~ 15kHz MICRO: 100Hz ~ 10kHz	
Signal / Noise	BGM > 75dB - MICRO > 65dB	
T.H.D	BGM < 0.05% / MICRO < 0.05%	
Priorities management	MICRO station > DRP > RMI > RM2 > RM3 > RM4 > LM-8000 > BGM Main	
Power source	100~120VAC or 220~240VAC 50/60Hz	
Consumption power	6oW	
Dimensions (WxHxD)	482 x 132 x 380mm · 3U	
Weight	7.5kg	

RM-8000

- MIC Station for use with PX-8000
- Convenient installation and construction without need of ID setting
- · Selection of various chime broadcasting for MIC (PRE/POST)
- Priorities management (RM1>RM2>RM3>RM4)
- Internal monitor speaker
- RS-422 Communication for long distance
- Power source: 24VDC, 300mA (supplied from PX-8000)

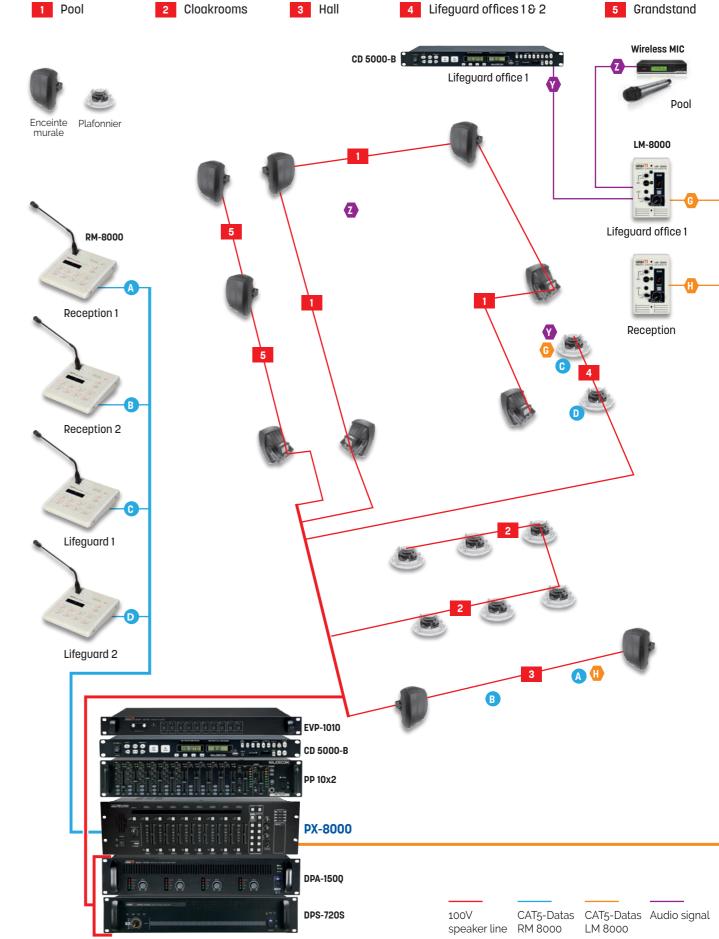
RM-8000

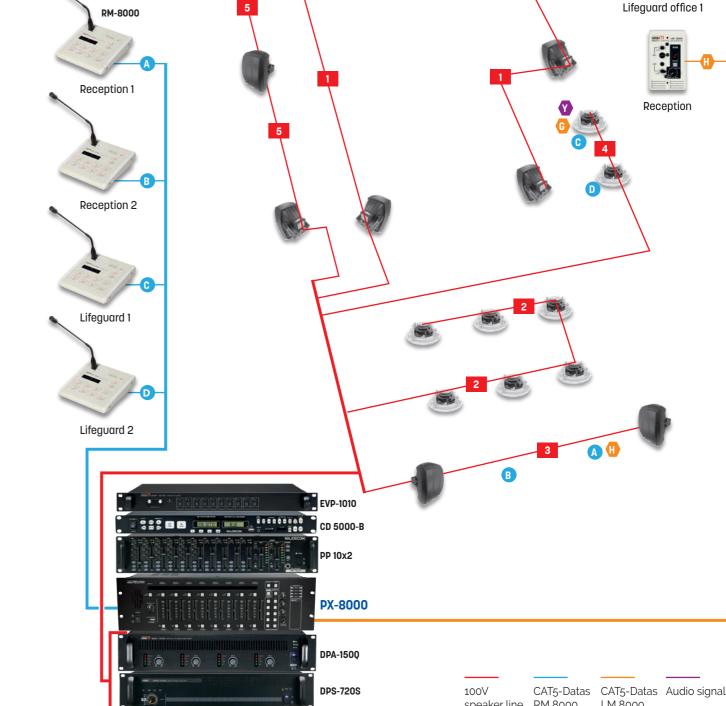
LM-8000

- Dimensions (WxHxD): 200 x 70 x 206mm
- · Weight: 1.5kg

LM-8000

- · Local animation deck with audio In
- For use with PX-8000
- Convenient installation and construction without need of ID setting
- Remote volume control and selection of BGM
- Independent local MIC and BGM broadcasting
- Jut out mounting, classic electric enclosure
- RS-422 Communication for long distance
- Dimensions (WxHxD): 70 x 114 x 52mm
- Embedding dimensions: 50 x 70mm
- · Weight: 130g





Mixer amplifiers

MA-106 / MA-110

60W / 100W mixer amplifiers



- MA-106 / MA-110 are compact 1U size PA amplifiers with rated power of 60W and 100W which are ideal for small rooms such as conference rooms, function rooms, restaurants and cafes.
- · With their exclusively high-efficiency amplification circuitry, the MA-106 / MA-110 are reliable, lightweight and low heat.
- The volume of INPUT1~3 can be controlled separately.
- The input signal from INPUT1~3 is indicated making verification of the operating status of each channel available.
- ${}^{\textstyle \bullet}$ Auto Sleep Mode: Without any input signal for more than 5 minutes, it will automatically enter Auto Sleep Mode, and once the input signal is input again, it will wake up within 0.5 seconds.
- Tone controller (Bass / Treble).
- Outdoor mute control: The mute function can be controlled outdoors and can also be linked to an emergency broadcast.
- · Additional function such as microphone phantom power, TEL IN are possible.

Model		MA-106 MA-110		
RMS Power		60W 100W		
Speaker output/	'impedance	15.5V/4Ω, 25V/10.5Ω, 70V/82Ω, 100V/167Ω 20V/4Ω, 70V/49Ω, 100V/100Ω		
	INPUT 1	-50	dB	
In most	INPUT 2 (MIC)	-50	dB	
Input sensitivity	INPUT 2 (LINE)	-100	dB	
Constitute	INPUT 3	-100	dB	
	TEL IN	0,77	75V	
Bandwidth ±3dE	±3dB 80 to 15,000Hz 80 to 18,000Hz		80 to 18,000Hz	
Signal / Noise INPUT 1, 2 INPUT 3, TEL IN		>60dB		
		> 70dB		
Tone Control BASS (100Hz)		±12dB	±10dB	
TREBLE (10kHz)		±12dB	±10dB	
Operating tempe	erature	-10°C ~ +40°C		
Power consump	tion	24W 30W		
Power source		220~240VAC, 50/60Hz		
Dimensions (Wx	HxD)	300 x 44 x 230mm		
Weight		3kg		



BKT-MA106: set of brackets for racking MA-106 & MA-110 amps-preamps in 19" racks (optional)



PU-103 / PU-106 / PU-112

30W / 60W / 120W mixer amplifiers with USB player



- The PU-103/106/112 series (with USB player) is compact in design that can be easily used in small spaces such as classrooms, meeting rooms, training centers, restaurants, shops... to allow you to broadcast your music or micro-
- The three power models 30W / 60W / 120W can be used in both high impedance (100V / 70V) and low impedance
- They also have a priority BGM input, a super priority TEL IN input, two line inputs and a contact input for the sound
- · Simply broadcast your music with the USB player on the
- · Volume controls and tone adjustment on the front panel.
- SMPS Power Supply

Model		PU-103 PU-106 PU-112			
Puissance RM	S	30W 60W 120W			
Output impedo	ince	15.5V/8Ω, 70V/166Ω, 100V/333Ω 21.9V/8Ω, 70V/82Ω, 100V/167Ω 21.9V/4Ω, 70V/40.83Ω, 100V/8		21.9V/4Ω, 70V/40.83Ω, 100V/83.33Ω	
	MIC (BALANCED)	-60dBV /2kΩ			
Input	LINE (BALANCED)		-20dBV /2kΩ		
sensitivity / Impedance	RCA (UNBALANCED)		-20dBV /20kΩ		
/ impodumoo	JACK 6.35 (UNBALANCED)		-20dBV /2kΩ		
	TEL IN (Balanced)		odBV/5kΩ		
Bandwidth ±3	BdB	300 to 12,000			
	MIC	55dB			
Signal / Noise	RCA, JACK 6.35	55dB			
	LINE, TEL IN	55dB			
Tone control	BASS (200Hz)	±10dB			
CONTROL	TREBLE (15kHz)	±10dB			
THD+B 1kHz (1	/3Pwr @8Ω)	1%			
Operating tem	perature	-10°C ~ +40°C			
Power consum	nption (1/8 W)	20W 35W			
Power source		120-240VAC, 50/60Hz			
Dimensions (V	VxHxD)	300 x 44 x 230mm			
Weight		2,82kg 3,18kg			



BKT-MA106: set of brackets for racking PU-103/PU-106/PU-112 amps-preamps in 19" racks (optional)



Mixer amplifiers

PA-212 / PA-224: 120W / 240W Class D amplifiers with USB player



- High-Z (100V/70V) and low-Z (8 Ω /4 Ω)
- Multiple inputs (3 MIC/LINE inputs, 2 LINE inputs, 2 stereo/ LINE inputs, 1 TEL IN, 1 usb) and a feature for controlling the volume of each channel
- EXT in and MIX OUT
- Displaying input signal led by channel and output led level
- Tone (bass/treble) controlling

- 5 switches (zone selection switch)
- Broadcasting in priority
- TEL IN > INPUT 1 > INPUT 2 = INPUT 3 = INPUT 4 = INPUT 5
- External mute and external chime
- Chime and siren

Model		PA-212	PA-224	
Power RMS		120W	240W	
Output Impeda	nce	31V/8Ω, 70V/41Ω, 100V/84Ω	31V/4Ω, 70V/21Ω, 100V/42Ω	
	MIC (BALANCED)	-70dBı	u /2kΩ	
	LINE (BALANCED)	-20dBı	u /2kΩ	
Input	RCA (UNBALANCED)	-20dBı	u /2kΩ	
sensitivity	JACK 3.5 (UNBALANCED)	-10dBu	/10kΩ	
/ Impedance	TEL IN (BALANCED)	-20 ~ 0dl	Bu/10kΩ	
	EXT IN (BALANCED)	odBu .	/20kΩ	
	MIX OUT (BALANCED)	odBu /10kΩ		
Bandwidth (1W, ±3dB, Low-Z)		80 to 17,000Hz		
MIC		50dB		
Signal / Noise	RCA, JACK 3.5	70dB		
	LINE, TEL IN	70dB		
_ BASS (200Hz)		±10dB		
Tone Control TREBLE (15kHz)		±10dB		
THD+N Rated Power (1kHz)		< 1%		
Operating Temperature		-10°C ~ +40°C		
Consumption (1/8 W)		20W 35W		
Power source		220V, 230V, 240VAC, 50/60Hz		
Dimensions (WxHxD)		420 x 88 x 318,7mm		
Weight		2,82kg	3,18kg	



Rear panel

BKT-A120: Set of brackets for racking PA-212 / PA-224 amplifiers (optional)

• BKT-A120 are brackets for fixing PA series amps-preamps in 19" racks.



RM-05A: 5-zone selective call Mic station for PA-212/PA-224

Station fitted with a high-quality electret microphone hose equipped with a level adjustment and a LEC volume unit meter.

- Comes with a 2m-cord (7 pairs + display) SubD15 connector.
- Hose length: 400mm
- Dimensions: 195 x 60 x 205mm
- Weight: 1.2kg



PM-236 / PM-248 / PM-260: 360/480/600W Class D amplifiers with USB player



- Broadcasting in priority
- TEL IN > INPUT 1 > INPUT 2 = INPUT 3 = INPUT 4 = INPUT 5
- External mute and external chime

• 5 switches (zone selection switch)

- Chime and siren
- EXT in and MIX OUT • Displaying input signal led by channel and output led level

• Multiple inputs (3 MIC/LINE inputs, 2 LINE inputs, 2 stereo/

LINE inputs, 1 TEL IN, 1 usb) and a feature for controlling

Tone (bass/treble) controlling

the volume of each channel

• High-Z (100V/70V) and low-Z (8 Ω /4 Ω)

		1			
Model		PM-236	PM-248	PM-260	
Power RMS		360W	480W	600W	
Output Impedance		38V/4Ω, 70V/13.6Ω, 100V/27.7Ω	44V/4Ω, 70V/10.2Ω, 100V/20.8Ω	70V/8.1Ω, 70V/8.1Ω, 100V/16.6Ω	
	MIC	-60	-60dBV / 2kΩ balanced		
	LINE	-20	odBV / 2kΩ balanced		
Input	RCA	-20dBV / 20kΩ unbalanced			
sensitivity	JACK 3.5	-200	dBV / 2kΩ unbalance	d	
/ Impedance	TEL IN	-20~(odBV / 40kΩ balance	ed	
	EXT IN	odBV / 40kΩ balanced			
MIX OUT		odBV balanced			
Bandwidth (1W, ±3dB, Low-Z)		80 to 15,000Hz			
MIC		>50dB			
Signal / Noise	RCA, JACK 3.5	>50dB			
	LINE, TEL IN	>70dB			
Tone Control BASS (100Hz) TREBLE (10kHz)		±10dB			
		±10dB			
THD+N Rated Power (1kHz)		< 1%			
Operating Temperature		-10°C ~ +40°C			
Consumption (1/8 W)		115W	125W	145W	
Power source		220-240VAC 50/60Hz 120-240VAC, 50/60Hz			
Dimensions (WxHxD)		420 x 88 x 318,7mm			
Weight		5,1kg 5,27kg			



Rear panel

BKT-A120: Set of brackets for racking PM-236/248/260 amps (optional)

• BKT-A120 are brackets for fixing PM series amps-preamps in 19" racks.



RM-05A: 5-zone selective call Mic station for PM-236/248/260

Station fitted with a high-quality electret microphone hose equipped with a level adjustment and a LEC volume unit meter.

- Comes with a 2m-cord (7 pairs + display) SubD15 connector.
- Hose length: 400mm
- Dimensions: 195 x 60 x 205mm
- · Weight: 1.2kg



PAM Serie technical specifications

PAM-312 / PAM-336 / PAM-348 : 120/360/480W amps-preamps, 6 MIC SYM / AUX inputs



- The new generation of PAM amps-preamps has been completely redesigned with Class-D amplification, an improved audio processing, simplified and multi-format connectivity (XLR/Euroblock/RCA/Jack 6.35).
- · You can select different source modules that can be integrated on the front panel such as FM Tuner, CD/USB, Bluetooth/USB, CD/USB/FM Tuner (the integration of the module no longer requires opening the PAM: simply insert it into the drawer on the front panel).
- Ideal all-in-one and compact device for applications such as shops, stores, schools, sports hall, restaurants...
- 6 inputs including 2 priority inputs + the TEL IN input super priority.

- Various inputs and connectors: MIC / MIC + Phantom / Line, RCA, Euroblock.
- 5 Speaker line outputs that can be activated or not on the front panel, ideal for selective calling via the MICRO RM-05 desk in 5 Zones.
- Multi-level priority broadcasting: (EM> TEL IN> RM, INPUT 1& 2> INPUT 3 to 6 > modules).
- Tone adjustable according to the operating environment (BASS / TREBLE).
- · Chime, EXT IN input for mixer or external preamplifier and MIX OUT for external amplifier (Booster).
- · Phantom power supply.
- · Can be adapted for a rack-mounting. The PAM is delivered with brackets.

Integrable modulation sources

PAM-BTU: Bluetooth & USB



- · Bluetooth wireless audio and USB
- · OLED display.
- · Supported codecs for USB: MP3, WMA.
- AVRCP supported to control the Bluetooth audio remotely.
- Dedicated volume control.
- Operating power: DC 24V (from amplifier).

PAM-MPM4: CD/USB/Tuner



PAM-CDU: CD & USB



- Compact Disc and USB player
- OLED display
- Supported codecs for USB: MP3. **WMA**
- Dedicated volume control
- Operating power: DC 24V (provided by amplifier).
- · Weight: 0.88kg

PAM-FMT: Tuner FM



- · FM radio tuner.
- OLED display.
- Frequency band: 87.5~108.0MHz.
- Auto scan with 5 presets.
- Dedicated volume control, Mute.
- Operating power: DC 24V (from amplifier).
- Weight: 0.49kg

• Module CD-DA/CD-R/CD-RW/MP3/WMA/USB/DRP1GB/TUNERAMFM

• Features: Random play, track scanning, time counting, loop, previous and next track, track search, automatic radio station search, 40 recordable stations, USB playing, copy from USB or CD to DRP (1GB data storage memory that preserves the CD mechanism)

Model **PAM-312** PAM-336 **PAM-348** Power RMS 120W 360W 480W **Output Impedance** 70V/41Ω, 100V/84Ω 70V/13.6Ω, 100V/27.7Ω 70V/10.2Ω, 100V/20.8Ω MIC -60dBV / 2kΩ (Balanced) CH1~3 LINE -20dBV / 2kΩ (Balanced) Input CH4 ~ 5 LINE -20dBV / 30kΩ (Balanced) sensitivity LINE CH6 -20dBV / 20kΩ (Unbalanced) / Impedance TEL IN -20dBV~0dBV / 40kΩ (Balanced) **EXT IN** odBV / 40kΩ (Balanced) Bandwidth (1W, $0 \pm 3dB$) 80 to 15,000Hz MIC 55dB Sianal / Noise (S / B, A-WTD) LINE 70dB BASS (100Hz) ±10dB Tone control TREBLE (10KHZ) ±10dB THD (@ 1kHz) < 1% -10°C ~ +40°C Operating temperature Consumption (1/8W) 97W 50W 115W AC 120V, 50/60Hz or AC 220-24 V, 50/60Hz Power source Dimensions (WxHxD) 420 x 132 x 358mm Weight (w/o modules) 7,26kg 6,93kg 7,16kg



Rear panel

BKT-PA4000A: set of 19" mounting brackets for PAM (included)

• Brackets for fixing PAM series amps-preamps in 19" racks.





PUBLIC ADDRESS



RM-05A: 5-zone selective call Mic station for PAM-312/336/348

Station fitted with a high-quality electret microphone hose equipped with a level adjustment and a LEC volume unit meter.

- · Comes with a 2m-cord (7 pairs + display) SubD15 connector.
- Hose length: 400mm
- Dimensions: 195 x 60 x 205mm
- Weight: 1.2kg

Analog amp-preamp

Compact analog amp-preamp with source

MX 30

30W analog amp-preamp



- 30W compact device with low impedance and 100V line
- It is fitted with a priority balanced microphone input that can be remote controlled with dry contact, an unbalanced microphone input, an AUX input and a CD input.
- A 3-band equalizer provides a perfect equalization of the
- · 220V power source.

Model	MX 30	
RMS Power	30W	
Bandwidth	100 - 20,000Hz	
Impedance	166Ω / 70V - 333Ω / 100V	
T.H.D	< 2.5%	
Bass/Treble equalization	+/- 10dB	
Signal / Noise	> 60dB	
Inputs sensitivity	MIC: 1mV - AUX: 200mV - CD: 500mV	
Power source	AC 220 - 240V 50/60Hz	
Dimensions (WxHxD)	270 x 90 x 260mm	
Weight	4,25kg	





BKT-MX30/60 : set of brackets for racking the MX-30 amp-preamp in 19" racks (optional)

MX 60T

60W compact amp-preamp with Tuner AM/FM, USB port



- 60W compact device with low impedance and 100V line outputs.
- It includes a AM/FM tuner with a 20-station memory and a USB port to play MP3 files contained in a USB key.
- It is fitted with a priority balanced microphone input that can be remote controlled with dry contact, an unbalanced microphone input, an AUX input and a CD input.
- A 3-band equalizer provides a perfect equalization of the

Model	MX 60T	
RMS Power	60W	
Output voltage and impedance	15V/4Ω · 22V/8Ω · 31V/16Ω 70V/82Ω · 100V/166Ω	
Bandwidth	100 to 20,000Hz	
Signal / Noise	>60dB	
T.H.D	< 2.5%	
Inputs sensitivity	MIC 1: 1mV/600Ω - phoenix terminal / MIC 2: 1mV/600Ω - Jack 6.35 AUX: 200mV/50kΩ - RCA / CD: 500mV/50kΩ - RCA	
Tuner AM/FM	FM: 87.5 to 108MHz, AM: 522 to 1611kHz	
Bass/Treble equalization	150Hz, 1kHz and 6kHz +/-10dB	
USB port	playback MP3 files contained in a USB key	
Output	music on hold odB	
Power source	230VAC · 50/60Hz	
Dimensions (WxHxD)	270 x 75 x 230mm	
Weight	5kg	



Rear panel



BKT-MX30/60: set of brackets for racking the MX 60T amp-preamp in 19" racks (optional)

AFM: outdoor movable radio antenna

• Lets you pick up FM radio stations when there is no reception inside the sound area.



Preamplifier-Mixer

MX 3120

120W analog amp-preamp



- Rack-mounting amp-preamp,120W RMS 100V line
- 2 balanced Mic inputs with priority on DIN 5 poles
- Mic1 (dry contact) > Mic2 (dry contact) > Mic/AUX3, AUX4, AUX 5
- 3 unbalanced Mic or Line inputs
- Chime 2 tone controlled by dry contact

- Bass and treble tone control on front panel
- BOOSTER output
- "Music and speech" output or "speech only" output
- 220V power supply and 24VDC
- Comes with brackets



Model	MX 3120				
RMS Power	20W				
Bandwidth	50 to 18,000Hz				
Impedance	41Ω / 70V - 83Ω / 100V				
T.H.D	<1%				
Bass/Treble equalization	+/- 10dB				
Signal / Noise	> 60dB				
Inputs sensitivity	MIC: 0.8mV - AUX: 200mV - CD: 500mV				
Chime	2 tone				
Power source	220-240VAC 50/60Hz and 24VDC				
Dimensions (WxHxD)	428 x 88 x 268mm				
Weight	10.2kg				



Rear panel

PP 10x2

10 inputs/2 outputs preamplifier-mixer



- Rack-mounting preamplifier fitted with 10 inputs and 2 outputs. Each input has a display of modulation presence.
- 10 inputs correspond to the following:
- 6 Mic/Line inputs (CH1 to CH6) which 2 priorities and fitted with a Phantom power supply.
- 4 Line inputs (CH7 to CH10).
- 1 top priority odB input.

- Trim and tonal setting on each input (except CH7 to CH10).
- 2 outputs with 2-band equalization. A bar graph on each output allows to display the modulation level.
- Record output, needful for many applications.
- Possibility of emergency power supply of 24VDC in case of power failure.

Model	PP 10x2				
Bandwidth	20 to 20,000Hz				
Input sensitivity	6 Mic/Line input balanced -60/0dB 4 unbalanced Line inputs 0dB 1 top priority input 0dB 1 record output 2 balanced outputs 0dB				
T.H.D	< 0.2%				
Input equalizer	±12dB @ 80Hz, 2.5kHz and 12kHz				
Signal / Noise	>70dB				
Power source	230VAC - 50Hz / 24VDC / 16W				
Dimensions (WxHxD)	482 x 88 x 320mm ⋅ 2U				
Weight	5.3kg				



Rear panel

PP-6214

10 inputs/2 outputs preamplifier-mixer



- The PP-6214 is a 2-output Pre-amplifier / Mixer which allows any of the unit's 10 input signals to be routed to Output 1, Output 2 or both.
- It is ideal for dual zone public address or audio visual installed applications such as factories, leisure centres, hotels and general PA systems.
- It has 8 Mic inputs (CH 1 to CH 8), 7 Line inputs (CH 2 to CH 8), 2 Stereo inputs and 2 Priority input.
- Phantom power (18v block switched) can supply 8 Mic inputs and a 3-band equalizer per output allows you to make correction independently on the 2 outputs.
- It can be supplied by a 24VDC backup power supply.

Model	PP-6214				
Inputs	MIC (CH 1 to CH 8): XLR -60dB / 600 Ω - LINE (CH 2 to CH 8): Jack mono 6.35mm -30dB / 10k Ω STEREO: RCA -30dB / 10k Ω				
Outputs	XLR +4dBm / 600Ω				
REC outputs	-6dB / 10kΩ				
Bandwidth	20Hz - 20kHz				
Phantom	MIC 1 to 8: 18VDC				
Power source	230VAC 50Hz - 24VDC				
Dimensions (WxHxD)	482 x 88 x 280mm · 2U				
Weight	5.5kg				



Rear panel

DPA amps technical specifications

DPA-50E / DPA-150Q / DPA-300Q

8 x 50 / 4 x 150 / 4 x 300W Class-D digital amps - 100V - 24VDC





DPA-1500 / 3000

- The DPA amps are multiple Class-D, 2U digital amps with efficiency better than 90% for less heat dissipation, noise, and weight compared to traditional analog amps.
- The line features 3 models quadruple and eightfold amps from 400 to 1200W.
- They include 2 audio inputs, including one priority input to cut the current program so you can broadcast a priority message by dry contact, for example.
- Front-panel LEDs let you see amp status instantly.
- These amplifiers are fitted with a 24VDC supply terminal block for use on booster batteries.

Secure operation through AC/DC dual power

DPA have a dual AC/DC power supply and the 24VDC can be provided by the backup power supply in case of an emergency such as a blackout. DC power is a standby power supply that operates independently. The AC/DC failover is automated and requires no action.



WHEN AC POWER IS BLOCKED

DPA-150Q

High quality sound of high S/N and low THD

DPA are high quality amplifier with a S/N higher than 100dB and THD less than 0.2%. Thus this amplifier are

suitable for large places such as shopping malls, department stores, places where high

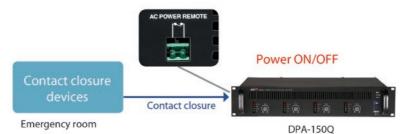
quality music listening and voice reproduction are required.

WHEN WITH ELECTRICITY



Remote AC power control function to ON/OFF

With the AC POWER REMOTE terminal on the rear panel, DPA power can be controlled from remotely. If contact closure is input to the AC POWER REMOTE terminal when DPA-150Q is OFF, the device turns on and if contact closure is inserted when ON, the device turns OFF.



Priority

Automatic emergency broadcasting is available using priority function of PA-150Q in emergency situations. When contact closure is inserted to PRIORITY terminal



on the rear panel, signals input to the PRIORITY terminal are output before the ones entered to PGM INPUT terminal.

Stability guaranteed with perfect protection circuits

Stability of the device is guaranteed with OVP (Over-Voltage Protection)

function which perceives and blocks when in/output voltage is higher or lower than the settled voltage range, UVP(Under-Voltage Protection) and overcurrent pr otection function.

Model	DPA-50E	DPA-150Q	DPA-300Q		
RMS Power	8 x 50W	4 × 150W	4 x 300W		
Bandwidth	80 to 20,000Hz	50 to 20,000Hz	30 to 20,000Hz		
100V impedance	200Ω	66,7Ω	33Ω		
70V impedance	98Ω	98Ω 32,7Ω			
Input sensitivity	1V/10kΩ				
THD	<1%	<1% <0,2% <1%			
Signal / Noise	95dB >100dB 95dB				
Operating temperature	-10°C ~ 40°C				
Power source	AC 220 - 240V · 50/60Hz - DC 24V				
Dimensions (WxHxD)	482 x 88 x 367mm				
Weight		6,8kg			



DPA-50E rear panel



DPA-150Q / 300Q rear panel

Class-D digital amps - 100V - 24VDC

DPS-240S / DPS-360S / DPS-480S / DPS-720S

Class-D 240W / 360W / 480W / 720W - 100V - 24VDC digital amps



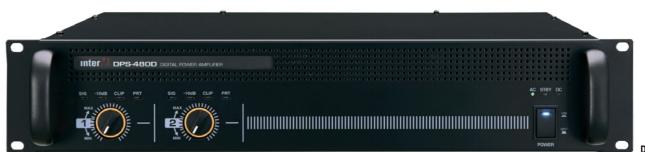
- This DPS Serie includes multiple Class-D, 2U digital amps with efficiency better than 90% for less heat dissipation, noise, and weight compared to traditional analog amps.
- The line features a number of single channel models ranging from 240 to 720W.
- These amps include 2 audio inputs, including one priority input to cut the current program so you can broadcast a priority message by dry contact, for example.
- Front-panel LEDs let you see amp status instantly.
- Fitted with a 24VDC supply terminal block for use on booster batteries.

Model	DPS-240S	DPS-360S	DPS-480S	DPS-720S		
RMS Power	240W	360W	480W	720W		
Bandwidth (1W, ±3dB)		60 to 20	0,000Hz			
100V impedance	66,7Ω	27,8Ω	20,8Ω	13,9Ω		
70V impedance	20,4Ω	13,6Ω	10,2Ω	10,2Ω		
Input sensitivity	1V/10kΩ					
THD (AES17,1/8 Power)	< 0,5%					
Signal / Noise	>100dB					
Operating temperature	-10°C ~ 40°C					
Power source	220 - 240VAC · 50/60Hz - 24VDC					
Consumption	130W 250W					
Dimensions (WxHxD)	482 × 88 × 371mm 482 × 88 × 424mm					
Weight		6,9kg		7,96kg		



DPS-240D / DPS-360D / DPS-480D

Class-D 2 x 240W / 2 x 360W / 2 x 480W - 100V - 24VDC digital amps



- This DPS Serie includes multiple Class-D, 2U digital amps with efficiency better than 90% for less heat dissipation, noise, and weight compared to traditional analog amps.
- The line features a number of single channel models ranging from 240 to 720W.
- These amps include 2 audio inputs, including one priority input to cut the current program so you can broadcast a priority message by dry contact, for example.
- Front-panel LEDs let you see amp status instantly.
- Fitted with a 24VDC supply terminal block for use on booster batteries.

Model	DPS-240D	DPS-360D	DPS-480D			
RMS Power	2 x 240W	2 x 360W	2 × 480W			
Bandwidth (1W, ±3dB)		60 to 20,000Hz				
100V impedance	41,6Ω	27,7Ω	20,8Ω			
70V impedance	20,4Ω	13,6Ω	10,2Ω			
Input sensitivity	1V/10kΩ					
THD (AES17,1/8 Power)	< 0,5%					
Signal / Noise	>100dB					
Operating temperature	-10°C ~ 40°C					
Power source	220 - 240VAC · 50/60Hz - 24VDC					
Consumption	130W 250W					
Dimensions (WxHxD)	482 × 88 × 371mm 482 × 88 × 424mm					
Weight	7,4kg	8,25kg	8,23kg			



Rear panel

Rear panel

Analog power amplifiers

Gamme M-AD1

Class D multichannel digital power amplifiers 150W/250W/500W







- The M-AD1 range offers a wide choice of 100V line class-D digital power amplifiers.
- · Available in 9 single- or multi-channel configurations : 1, 2 or 4 channels.
- Total power from 150 to 2000W with 3 different channel powers: 150W / 250W / 500W.
- It offers advantages in terms of energy efficiency, heat dissipation and space saving.
- Switching power supply in combination with class D amplifier stage permits less weight and energy efficient.

- •The integrated ventilation system protects against
- Front panel LEDs provide instant control of amplifier
- · Easy to use, basic settings are on the front panel: volume, bass and treble control.
- Each amplifier has 2 audio inputs, including an input to mute the current broadcast by dry contact and and a 100V output that can be switched to 70V.

Model	M-AD1-1150	M-AD1-1250	M-AD1-1500	M-AD1-2150	M-AD1-2250	M-AD1-2500	M-AD1-4150	M-AD1-4250	M-AD1-4500
Power	1 x 150W	1 x 250W	1 x 500W	2 X 150W	2 x 250W	2 x 500W	4 x 150W	4 x 250W	4 x 500W
Nominal Power consumption	180W	280W	560W	360W	565W	1120W	720W	1130W	2240W
1/8 Pmax Pink noise Consumption	31W	44W	93W	58W	100W	185W	120W	190W	370W
INPUT									
Input sensitivity					o dBu				
Input type					Balanced				
Connectivity				Combo:	XLR + 6,35mi	m Jack			
OUTPUT									
Voltage	100V/70V (dip switch selection)								
Bandwidth	20Hz à 20kHz (-3dB @ -10dB ref rated output)								
Distorsion	< 0,5% @ rated output, 1kHz								
S/N ratio		> 80dB							
Connectivity	2 pts removable terminal block (pitch 5,08mm)								
OTHER									
Mute input	Dry contact								
Connectivity	2 pts removable terminal block (pitch 3,81mm)								
Power supply	Mains: 110V-265V AC 50Hz/60Hz								
Weight	3,6 kg 4 kg 6,5 kg								
Dimensions (LxWxD) mm	422 x 3	28 x 44	422 x 328 x 88	422 X 3	328 x 44		422 x 3	28 x 88	

PA-6312 / PA-6336 / PA-6348

120/360/480W analog power amps - 100V - DC 24V - 8/4 Ω



- Models are available in a variety of 120, 360 and 480W output power in $8/4\Omega$ low impedance and in 70/100V line.
- They are the installer's choice for sound reinforcement, background music, paging, and public address systems.
- Equipped with low distortion and low noise electronic circuits, it offers a high signal-to-noise ratio.
- The PA 6300 series offers outstanding versatility, long term reliability, and a remarkable value for any application.
- 400Hz HPF (High Pass Filter)
- -12dB gain adjustment
- Output level indicators
- Thermal Protection

Model	PA-6312	PA-6336	PA-6348			
RMS Power (@ THD 1%,1kHz)	120W	360W	480W			
Output voltage and impedance	4Ω / 22V 41Ω / 70V 83Ω / 100V	4Ω / 38V 13.6Ω / 70V 27.8Ω / 100V	4Ω / 43.8V 10.2Ω / 70V 20.8Ω / 100V			
Bandwidth (+1/-3dB)		70 to 18,000Hz				
T.H.D	<	1%	< 5%			
Signal / Noise	> 95dB > 90dB					
High-pass filter	-3dB @ 400Hz					
Input impedance sensitivity	1 V/10kΩ balanced					
Adjustable input	-12dB @ odB					
Cooling	Fan					
Operating Temperature	-10°C ~ +40 °C					
Relative humidity	~ 95%					
Power Consumption	130W 450W 600W					
Power source	100-120VAC ou 220-240VAC ; 50/60Hz, 24VDC					
Dimensions (WxHxD)	482 × 132 × 280mm ⋅ 3U					
Weight	14kg	19kg	22kg			



Rear panel

PA-2312

2 x 120W forced-ventilated power amp - 100V - DC 24V - 8/4 Ω



- \bullet This amplifier is a forced-ventilated 120W RMS power per channel dual unit.
- The high-pass dual filter protects loudspeakers from any bass frequency excess.
- The balanced input enables to reduce hum produced by long input cables and problems of ground loop.
- The Adjustable Gain located at the rear of the appliance enables to control the input gain from -12dB to OdB.
- Continuous power supply terminals for booster batteries in case of power failure.

Model	PA-2312			
RMS Power (@ THD 1%,1kHz)	2 x 120W			
Output voltage and impedance	23V - 4Ω 70V - 41Ω 100V - 82Ω			
Bandwidth	40 to 20,000Hz			
T.H.D	<1%			
Signal / Noise	>95dB			
High-pass filter	- 6dB @ 400Hz			
Input impedance sensitivity	1 V / 10kΩ balanced			
Adjustable input -12dB @ 0dB				
Cooling	Fan			
Operating Temperature	0°C ~ +40 °C			
Relative humidity	~ 95%			
Power Consumption	480W			
Power source	120/240VAC · 24VDC			
Dimensions (WxHxD)	482 x 132 x 280mm ⋅ 3U			
Weight	20kg			



DPN amps technical specifications

PUBLIC ADDRESS

DPN-240S / DPN-240D / DPN-240Q / DPN-480S / DPN-480D 240 / 2x240 / 4x240 / 480 / 2x480W digital amplifiers over IP network

- Dante

FEATURES

- The DPN series offers a wide choice of single or multi-channel power ratings, in line 70V/100V with galvanic isolation.
- The amplifiers are EN 54-16 certified and designed to work with the EVAMA-TRIX security PA system.
- All system components are fully IP networked (audio & control) using Dante® technology.
- Dual primary and secondary network connection for total redundancy.
- · Low power consumption, low heat dissipation for energy savings and gains in battery capacity and backup power.
- Complete supervision of the operation of the amplifiers and all connections. Faults are reported locally on the EVA-MATRIX and archived.
- Control and supervision of the loudspeaker lines WITHOUT audio interruption with the EOL-20 end of line element
- Control and supervision of the network link with audible and visual indication on the amplifier unit and EVAMATRIX.
- Integrated backup amplifier channel dynamically assignable from the EVAMATRIX web interface with automatic switchover
- 2 A/B outputs on each amp channel. The 2 outputs are supervised and individually disabled in case of failure.
- · Audio over IP, Dante® and AES67 compatible; audio sample rate is of 48kHz with a sample size of 24 bits.
- High signal to noise ratio, wide audio bandwidth, very low distortion and crosstalk.
- DSP, digital signal processing on all amp channels from the EVAMATRIX control unit web server, including equalization, levels to optimize and customize the sound in each speaker



DPN-240S / 480S



DPN-240D / 480D



DPN-2400

SEVERAL POWERS FROM SINGLE TO QUADRUPLE CHANNEL 1 x 240W: **DPN-240S** 2 x 240W: **DPN-240D** 4 x 240W: **DPN-240Q** 1 x 480W: **DPN-480S** 2 x 480 W: **DPN-480D**

- Local UGA and dry contact inputs monitored for triggering of alarm conditions, alarm... Ideal for decentralized systems.
- Dry contact inputs for local feedback of third party faults (CMSI, EAE, GTC...) in case of decentralized use.
- Local fault outputs customizable as desired and by alarm zone.
- An additional local analog audio input on each DPN amplifier that will be converted and made available to the entire EVAMATRIX system.
- The system integrates the SNMP V2c protocol (Simple Network Management Protocol) which allows a management and monitoring software to report any type of fault and status of the sound equipment.
- The system incorporates seamless security (HTTPS, TLS1.2, SHA256, SSL, AES256 encryption and elliptic curve cryptography).

Model		DPN-240S	DPN-240D	DPN-240Q	DPN-480S	DPN-480D	
Power source			220	- 240VAC, 50/60Hz, 24	VDC		
Power		1 x 240W RMS @ 70V/100V Class D Load Min 41.6Ω, Capacity Min 0.01uF	2 x 240W RMS ⓐ 70V/100V Class D Load Min 41.6Ω, Capacity Min 0.01uF	4 x 240W RMS ⓐ 70V/100V Class D Load Min 41.6Ω, Capacity Min 0.01uF	1 x 480W RMS ⓐ 70V/100V Class D Load Min 41.6Ω, Capacity Min 0.01uF	2 x 480W RMS @ 70V/100V Class D Load Min 41.6Ω, Capacity Min 0.01uF	
	Max	313W	595W	1 254W	583W	1 191W	
Consumption	1/8 power	135W	140W	280W	135W	240W	
	Standby	58W	75W	89W	59W	82W	
Frequency resp	onse		20	Hz - 20kHz @ (±3dB @ 1	W)		
Signal / Noise			> 9	91dB (20kHz LPF, A-WT	D)		
T.H.D			< 0	.45% at 1kHz Power rat	ing		
Audio input			Type: Balanced Euro	terminal / Input sensiti	vity: 5dBV (1.78 Vrms)		
Ethernet (LAN)			RJ45, TCP/IP protocol 100/1000 Base-T				
Extension		Output to EVAMATRIX on RJ45 (Dante®) - Input from EVAMATRIX on RJ45 (Dante®) CAT5 cable Maximum distance: 100m					
UGA inputs		UGA inputs 1 ~ 4 : triggerable on a voltage (22V ~ 60V)					
Dry contact inp	uts	Dry contact inputs from (1 ~ 4): triggerable on dry contact NO/NF					
Dry contact out	tputs	Dry contact outputs from (1 ~ 4): Relay output					
Speaker line ou	tputs	4-pin connector, (1ch) for channels A+B					
Backup amplifi	er input		1 input per ch	annel, for amplifier with	n equal power		
Protection		Current protection, temperature protection, DC voltage output protection, overload					
MTTF availabili	ty	Average failure time greater than 100,000 hours					
MTTR availabili	ty	Average repair time less than 20 minutes					
AES/EAE emerg input	ency power	24VDC					
FAULT-IN input		Supervised fault input for remote fault reporting (e.g. AES/EAE)					
Screen		1.3" OLED screen					
Operating temp	erature		-10°C	~ +40°C / Humidity: 5	95%		
Weight		8,59kg	9,1kg	10,1kg	8,56kg	9,7kg	
Dimensions (W	xHxD)	482 x 88 x 450mm					
Accessories		AC power cord, Euroblock connectors, Rack mount screws, User manual					
Protocol and er	ncryption	TCP/IP, Http, Https, SNMP V2c, IPv4, TLS1.2, SHA256, SSL, AES-256, Elliptic curve cryptography					



Rear panel

Convertors

PN-106 / PN-112 / PN-236 / PN-260

60 / 120 / 360 / 600W amplifiers over IP network



- The PN Series amplifiers are amps-preamps that allow audio streams to be received remotely over the IP network.
- They can be deployed in various locations without constraint of cables and are controlled remotely via the NCS system

(management of priorities of audio inputs, volume control, audio file management...).

· They are ideal for schools, industrial buildings, chain of

Model			PN-106	PN-112	PN-236	PN-260	
Nominal power RMS			60W	120W	360W	600W	
Bandwidth (1W, 0±3dB	3)			80 to 1	5,000Hz		
THD @ 1kHz				<	1%		
S/B (A-WTD) @1kHz	LINE / Aud	dio		70	odB		
S/B (A-WID) @IKHZ	MIC			55	5dB		
	Input 1	MIC		-60dBV / 2k	xΩ (Balanced)		
Input sensitivity	Innut 2	LINE		odBV / 24kΩ	(Unbalanced))		
/ Impedance	Input 2	MIC	-60dBV / 2kΩ (Balanced)				
	Network	Audio		-2.2	edBV		
			100V / 166Ω	100V / 84Ω	100V /27.7Ω	100V /16.6Ω	
Output Impedance			70V / 82Ω	70V / 41Ω	70V/ 13.6Ω	70V / 8.1Ω	
			22V / 8Ω	22V / 4Ω	38V / 4Ω	49V / 4Ω	
Network communicati	on		100/1000 base-T (RJ-45)				
Operating Temperature	е		-10°C ~ +40°C				
Power source			120-240V AC, 50/60Hz 220-240V AC, 50/60Hz 120-240V AC, 50/6			120-240V AC, 50/60Hz	
Consumption			55W 110W 150W			150W	
Dimensions (WxHxD)			420 x 44 x 320mm 420 x 88 x 320mm			x 320mm	
Weight			4.49kg		5,02kg	5,23kg	
Accessorie (optional)			Rack mount brackets BKT-DSA100D-F Rack mount brackets BKT-A120			ckets BKT-A120	



AVIO ANALOG IN 2X0: converter of 2 line-level analog audio signals entering a Dante™ network

AVIO ANALOG 0 0X2: converter allowing the output of 2 line-level analog audio signals from a Dante™ network



- Dante



AVIO ANALOG IN 2X0

AVIO ANALOG 0 0X2

Network all your audio gear easily and cost-effectively with Dante AVIO™

Dante AVIO Adapters let you use all your legacy audio gear with any Dante-connected system, delivering the interoperability, performance and scalability that only networking can bring. Cost effective, compact and built for the road, Dante AVIO adapters bring the modern network connectivity that every audio pro needs in their toolbox.

Plug & Play

Each Dante AVIO adapter is a complete, high-performance Dante device, delivering all the automation and ease of use that have made Dante the most popular audio networking solution worldwide. Dante AVIO adapters are automatically discovered and ready to use when connected, and no separate power supplies are required - just use a common PoE (Power over Ethernet) switch and Dante AVIO adapters are ready to go.

On the road again

We've made Dante AVIO adapters road-ready and tourtough. Sonically-welded ABS enclosures and quality

hardware are used throughout, while cable assemblies are stress-tested to ensure reliable operation under grueling conditions. Toss them in your toolbox, show after show.

True Dante™

Dante AVIO™ converters are true Dante interfaces, with all the features you expect from Dante® audio networking. Each offers pristine audio reproduction, ultra-low latency, and precise synchronization across the entire network. All Dante devices discover each other automatically and the entire system is managed by the easy-to-use "Dante Controller" software on any connected PC or Mac. More importantly, every Dante device can instantly connect to every other Dante device. All Dante AVIO™ converters are fully compatible with Dante Domain Manager (DDM) for security and IT workflow management. AES67 is supported for connection to non-Dante networks.

Model	AVIO ANALOG IN 2XO AVIO ANALOG O 0X2						
Network Transport	Dante Audio ov	er IP AES67 RTP					
Sample Rates	44.1, 48	s, g6kHz					
Bit Depth		24					
Input signal	+24dBu / +4dBu / odBu odBV / -10dBV						
Output signal	+18dBu / +4dBu / odBu odBV / -10e						
Impedance	20kΩ balanced - 10kΩ Unbalanced 150Ω balanced - 75Ω Unbalanced						
Bandwidth	20 to 20,00	20 to 20,000Hz (±0.5dB)					
Dynamic range	> 10	> 100dB					
S/N ratio	> 100dB						
THD	< 0.01% @ +4dBu						
Connector	RJ45 - 2 XLR-F RJ45 - 2 XLR-M						
Power source	Class 18	D2.3af PoE					

DASR-288

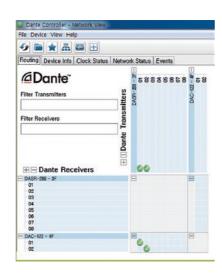
- Dante

8-channel digital audio transport system over IP



- It connects to your network with a single Ethernet cable.
- It is a Dante™ Break Out/Encoder interface in a 2RU form factor designed for all types of commercial AV installations. It offers eight channels of line-level analogue in and 8 line-level analogue outputs. Precision 24-bit A-D and D-A converters are used for superb audio performance with a 119dB dynamic range at sample rates up to 192kHz.
- This product is used as the audio matrix, each having eight inputs, where you can send uncompressed audio with low latency using standard TCP/IP Ethernet network. It's remotely controlled via the network and can be placed anywhere in a facility. Unique to the DASR-288 is its Data tunneling. No other manufacturer offers this feature, which allows you to transport with the Digital audio, 8 contact closures in and 8 contact closures out together combined with either RS-232C serial data.
- Each of the 8 balanced analog inputs and 8 outputs may be assigned to any Dante flow in the system, either by means of the Audinate's Dante Controller Windows or OSX application or Inter-M's own S-Connect Windows Software. The S-Connect allows for system configuration as well as easy channel switching. The S-Connect Software is designed to operate by simple touch screen.
- Dual redundant Gigabit Dante[™] Network connections are available. Both primary and secondary connections support full Gigabyte ports for full redundancy.
- Signal Monitoring is available for all 8 inputs and 8 outputs with a front panel mounded dual LEDs, indicating signal presence and clipping. Network status LEDs also monitor network connectivity and transition speed.

Model	DASR-288
Max. INPUT Level	+20dBu (8 balanced audio channels at Line levels)
Max. OUTPUT Level	+20dBu (8 balanced audio channels at Line levels)
Bandwidth ±3dB	20Hz - 20kHz
THD	< 0.1%
Sampling	48kHz - 24Bit
Communication	Dry Contact, RS-232C
Dry Contact	8 Input, 8 Output
Baudrate	9,600bps ~ 115,200bps
Ethernet(LAN)	10/100/1000 Base-Tx, (RJ-45)
Operating Temperature	0°C~40°C
Power Source	AC 120V - 240V, 50/60Hz or DC 24V
Power Consumption	25W
Dimensions(W×H×D)	482 × 88 × 280mm · 2U
Weight	4kg





Rear panel

AFD-6218

8 amps control unit



- · Control unit lets you switch to a backup amp.
- · Control up to 8 amps simultaneously.
- An adjustable-interval test controls connected amps automatically.
- Front-panel LEDs let you monitor amp status directly.

PUBLIC ADDRESS

• Failures can also be viewed in the system software.

Model	AFD-6218
Amp inputs	8 + 1 safety amp
Amp outputs	8 + 1 safety amp
Audio inputs	8
Operating temperature	-10°C ~ 40°C
Power source	24VDC, 170mA
Dimensions (WxHxD)	482 x 88 x 280mm · 2U
Weight	4kg



Rear panel

Speaker lines control

PM-9208

8 zones speaker lines control unit



- It provides audible and visualmonitoring of up to 8 single-channel amplifiers orspeaker lines.
- 8 x 8-segment LED displays monitor up to 8 amplifier outputs or speaker lines, with 5-step attenuation to match different amplifier levels.
- A built-in speaker allows monitoring of the selected channel and features 4-step attenuation. The speaker is passive (no internal amplifier) and the LED display requires 24VDC (power supply not included).
- 8-Channel Monitor Panel
- 10 Segments LED Meter for Each Channel
- Built-In Monitor Speaker
- · Channel Selector Switches
- · LED Indication on Each Switch
- Monitors 8 70/100V Lines
- 24VDC Operation Only
- Rack Mount (2U)
- Power Supply Not Included

Model	PM-9208
Inputs	8 x 100V / 70V
LED display	8 outputs (simultaneous)
Attenuator	5 positions
Output power	Max 1.5W
Frequency response	32 to 16,000
Operating temperature	-10°C ~ 40°C
Power source	24VDC
Dimensions (WxHxD)	482 x 88 x 280mm · 2U
Weight	3,8kg



Rear panel

ALIM 24VDC 1.25A: 220V/24VDC - 1.25A - 30W power supply

• A constant voltage switching power supply which connects directly to a mains using a 3-point IEC cable and provides constant 24V voltage for a maximum power of 30W.



SC-6224

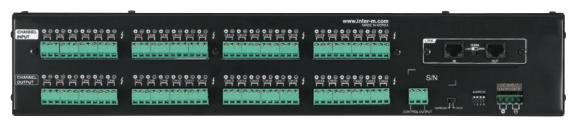
Loudspeaker lines control



- Test up to 24 loudspeaker lines automatically at a configurable, regular interval.
- Line failures (open circuit, short circuit, overloads, etc.) are signaled by front-panel LEDs and an audible signal.

PUBLIC ADDRESS

Model	SC-6224
Line impedance test	20Ω - 3kΩ
Test duration / channel	<100ms
Test interval	5-200min
Channels	24
Operating temperature	-10°C ~ 40°C
Power source	24VDC, 200mA
Dimensions (WxHxD)	482 x 88 x 280mm · 2U
Weight	4.4kg



Rear panel

ALIM 24VDC 1.25A: 220V/24VDC - 1.25A - 30W power supply

· A constant voltage switching power supply which connects directly to a mains using a 3-point IEC cable and provides constant 24V voltage for a maximum power of 30W.



Ethernet Switch

PM-N108

Remote PA monitor



- PM-N108 is a system audio monitoring equipment via network when long distance network PA or mass PA system is configured..
- ETHERNET Gigabit 100/1000Mbps.
- · Receiving audio source by network...
- · Monitoring of 8 line channel audio inputs.
- Monitoring of 8 100V amplifier channels.

- · Boundless expansion by network.
- · Web-based setting.
- The equipment can check power amplifier output and status of line level audio via PC or mobile devices..
- · Also, status of total system can be monitored in real time.

Model		PM-N108
AUDIO	Audio Input Channel	8CH
	Audio Input Level	odBV (1Vrms)
	Frequency Response (OdBV)	20Hz ~ 20kHz
	THD+N Ratio (20Hz HPF, 20kHz LPF, OdBV, 1kHz)	Less than 0.1%
	S/N (20Hz HPF, 20kHz LPF, 0dBV, 1kHz)	More than 80dB
	100V Amplifier Input Channel	8CH
	Amplifier Input Level	40dBV (100Vrms)
	THD+N Ratio (20Hz HPF, 20kHz LPF, 40dBV, 1kHz)	Less than 1%
Network Communication		100/1000 Base-T
Operating Temperature		0°C ~ 40°C
Power Source		24 V DC, 300mA
Dimensions (WxHxD)		482 x 44 x 280mm
Weight		3,04kg



Rear panel

SWITCH GIGABIT 24P

Switch - 24 ports - Gigabit (1GbE) - Unmanaged - Rack mountable



- Economical and high performance GbE layer 2 swit-
- It gives to small businesses 10 times the performance of Fast Ethernet with the simplicity of unmanaged plug and
- Unmanaged switches are a cost-effective solution for small businesses and are suitable for sites that only need basic Layer 2 switching in a flat, single-level network.
- The half-duplex / full-duplex auto-negotiation feature on each port doubles the throughput of each port.
- This model has silent fanless operation, automatic functionsfor standalone use and low power consumption.

Main Features:

• Switch 24 ports 1GbE with two links 1 / 10GbE SFP +

PUBLIC ADDRESS

- Packet buffer size: 1.5 MB dynamically allocated
- Throughput: up to 38.7 Mpps
- Switching capacity: 52 Gbit/s

Model	SWITCH GIGABIT 24P	
Type of device	Switch - 24 ports - unmanaged	
Туре	Desktop computer, Rack mountable - 1U	
Subtype	Gigabit Ethernet	
Ports	24 x 10/100/1000 + 2 x Fast Ethernet/Gigabit SFP	
Performance	Switching capacity: 52Gbps / Flow: 38.7Mpps	
The MAC address table size	8,192 entries	
Jumbo frame support	9,216 bytes	
Features	Control flow, auto-negotiation, auto-uplink (auto MDI/MDI-X), half-duplex mode, full-duplex, quality of service (QoS), fanless, buffer packets 512 KB, support DiffServ Code Point (DSCP)	
Compliance with standards	IEEE 802.3, IEEE 802.3u, IEEE 802.3i, IEEE 802.3ab, IEEE 802.1p, IEEE 802.3x, IEEE 802.3az	
Flash memory	1 Mo	
Interfaces	24x RJ45 in 1000Base-T and 2xSFP Gigabit LAN	
Power device	Internal power supply	
Tension requise	120/230VAC (50/60Hz)	
Reliability MTBF	126.1 years	
Compliance with standards	CISPR 24, EN55022, IEC 61000-3-2, IEC 61000-3-3, IEC 61000-4-11, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, EN55024, CISPR 22, CSA 22.2 No. 60950, UL 60950-1, IEC 60950-1, EN 60950-1, FCC Part 15 B Class A	
Temperature	Operating: 0 to 40°C • Storage: -40 to 70°C	
Humidity	Operating: 10% to 90% without condensing • Storage: 5% to 90% without condensing	
Dimensions (WxHxD)	440 × 44 × 173mm	
Weight	2.2kg	

Ethernet Switch

ZY-IP-SWF0M06RJ

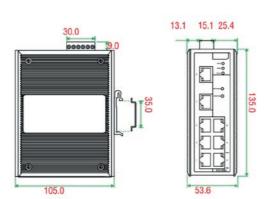
Monomode managed Ethernet switch with 6 RJ-45 ports and 2 optic fiber ports



- 8-port switch
- Copper and Optic Fiber ports
- DIN-rail mounting
- Redundant dual power supply
- IP 30



- The ZY-IP-SWFOMO6RJ is an Ethernet switch made of 6 Copper ports (10/100BaseT(X)) and 2 Optic Fiber ports (100BaseFX (SC)).
- It supports a variety of management functions, such as Turbo Ring, port-based VLAN, QoS, bandwidth management and warning by email or relay
- The ready-to-use Turbo Ring can be set up easily using the web-based management interface, or with the DIP switches.
- Its design for industrial environments makes it adaptable to any application requiring high availability.
- The ZY-IP-SWFOMO6RJ can operate from 0 to 60°C.



Model	ZY-IP-SWF0M06RJ
Interfaces	RJ45 x6 SC x2
Fiber transmission	0 dBm / -5 dBm
Fiber reception	- 34 dBm
Fiber length	40 km
Fiber saturation	- 3 dBm
Power supply	24 VDC (redundant dual inputs)
Dimensions	135 x 105 x 53,6 mm
Material	Metal
Weight	0,650 kg
IP Rating	IP 30
Installation	DIN-rail mounting

ZY-IP-SWF0MU6RJ

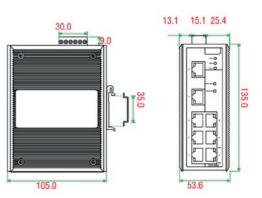
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- The ready-to-use Turbo Ring can be set up easily using the web-based management interface, or with the DIP switches.
- Its design for industrial environments makes it adaptable to any application requiring high availability.
- The ZY-IP-SWFOMU6RJ can operate from -10 to 60°C.



Model	ZY-IP-SWF0MU6RJ
Interfaces	RJ45 x6 SC x2
Fiber transmission	-10 dBm / -20 dBm
Fiber reception	- 32 dBm
Fiber length	4 to 5 km
Power supply	24 VDC (redundant dual inputs)
Dimensions	135 x 105 x 53,6 mm
Material	Metal
Weight	0,650 kg
IP Rating	IP 30
Installation	DIN-rail mounting

SWITCH POE 5P

5-Port Gigabit Desktop Switch with 4-Port PoE





SWITCH POE 5P is a 5 10/100/1000Mbps ports unmanaged switch that requires no configuration and provides 4 PoE (Power over Ethernet) ports. It can automatically detect and supply power with all IEEE 802.3af compliant Powered Devices (PDs). In this situation, the electrical power is transmitted along with data in one single cable allowing you to expand your network to where there are no power lines or outlets, where you wish to fix devices such as APs, IP Cameras or IP Phones, etc.

Model	SWITCH POE 5P	
Standards	IEEE 802.3, IEEE 802.3u, IEEE 802.3x, IEEE 802.1p, IEEE 802.3af	
Interface	• 5 x 10/100/1000Mbps RJ45 Ports with 4 x PoE Ports (Port 1 to Port 4) • AUTO Negotiation/AUTO MDI/MDIX	
Network Media	• 10BASE-T: UTP category 3, 4, 5 cable (maximum 100m) • EIA/TIA-568 100 Ω STP (maximum 100m) • 100BASE-TX: UTP category 5, 5e cable (maximum 100m) • EIA/TIA-568 100 Ω STP (maximum 100m) • 1000BASE-T: UTP category 5, 5e, 6 or above cable (maximum 100m) • EIA/TIA-568 100 Ω STP (maximum 100m)	
Power Consumption	4.26 watts (max. no PD connected)63.31 watts (max. with 56w PD connected)	
PoE Ports (RJ45)	Standard : 802.3 af compliant PoE Ports : Port1- Port4 Power Supply : 56W	
Transmission Method	Store-And-Forward	
Switching Capacity	10Gbps	
Mac Address Table	2K	
Fan Quantity	Fanless	
External Power Supply	External Power Adapter (Output: 48VDC / 1.25A)	
LED	Power, Link/Act, PoE Status, PoE Max	
Dimensions (W x D x H)	3.9 x 3.9 x 1.0 in. (99.8 x 98 x 25 mm)	
Certification	FCC, CE, RoHS	
Package Contents	SWITCH POE 5P, Power Adapter, User Guide	
Environment	 Operating Temperature: 0°C~40°C (32°F~104°F) Storage Temperature: -40°C~70°C (-40°F~158°F) Operating Humidity: 10% ~ 90%RH, non-condensing Storage Humidity: 5%~90%RH, non-condensing 	

SWCH POE 8P+2SFP D

8 ports PoE Gigabit Switch





PoE Switch

SWCH POE 8P+2SFP D is a managed AI PoE switch specially designed for security transmission. It supports PoE power supply requirements and Gigabit uplink ports, supports complete security protection mechanisms, complete ACL/QoS policies and rich VLAN functions.

Model	SWCH POE 8P+2SFP D	
Network Interface	• 8 10/100/1000Mbps RJ45 ports	• 2 Gigabit SFP fiber ports
Protocol standard	IEEE802.3, IEEE802.3i, IEEE802.3u, IEEE802.3ab, IEEE802.3z, IEEE802.3ad, IEEE802.3x, IEEE802.3af/at, IEEE802.1p, IEEE802.1g, IEEE802.1w, IEEE802.1d, IEEE802.1s	
Performance		
Backplane bandwidth	200	Gbps (non-blocking)
Packet forwarding rate		14.9Mpps
MAC address table	8K	
Port cache	4.1Mb	
Forwarding mode	Store and forward	
LED indicator	• 10 Link/Act indicator • 8 PoE indicator	• 1 Power indicator • 1 SYS indicator
PoE pin	1/2 (+), 3/6/(-)	
Power support	• Single port maximum output power: 30W • The maximum power of the whole machine: 96W	
Physical		
Dimensions (LxWxH)	225mm×120mm×35mm	
Working temperature	0°C~40°C	
Storage temperature	-40~70°C	
Working humidity	10%~ 90% RH without condensation	
Storage humidity	5%~90% RH without condensation	
Safety regulations	CE/ROHS/FCC	
Storage humidity	5%~90% RH without condensation	

PoE Switch

SWCH 24P POE N-MAN

24 ports Gigabit PoE Switch



High PoE Power Budget

- 370W PoE power budget
- Compliant with IEEE 802.3af/at
- PoE usage indicator LEDs

Versatile Connectivity

- 24 10/100/1000 Mbps PoE ports
- 2 Gigabit combo uplink ports

Reliability

- IEEE 802.3x flow control
- Store-and-forward switching scheme

Easy Setup

- Plug-and-Play installation
- Auto MDI/MDI-X crossover for all ports

Green Features

- IEEE 802.3az Energy Efficient Ethernet
- RoHS-compliant

Model	SWCH 24P POE N-MAN	
Number of Ports	24x ports 10/100/1000Mbps • 2x ports combo10/100/1000BASE-T/SFP	
Standards	Ethernet 10BASE-T IEEE 802.3 / Fast Ethernet IEEE 802.3u 100BASE-TX Gigabit Ethernet IEEE 802.3ab 1000BASE-T / IEEE 802.3z / IEEE 802.3x Flow Control IEEE 802.3az Energy Efficient Ethernet (EEE)	
Switching Capacity	52 Gbps switching fabric	
64 Byte Max. Forwarding Rate	38.69Mpps	
Media Interface Exchange	Auto MDI/MDI-X	
Transmission Method	Store-and-forward	
MAC Address Table	8K (8192) entries per device	
Packet Buffer Memory	512 KB per device	
PoE Standards	IEEE 802.3at • IEEE 802.3af	
PoE Ports	Ports 1 to 24	
PoE Budget	370W ∙ Up to 30W per port	
LED Indicators	Per port: Activity / Link and Speed • Per PoE port: Power Fail / Power OK • Per Unit: Power / PoE Power Budget	
Fan	2 x Smart fans	
Dimensions (WxDxH)	440 x 250.4 x 44mm	
Weight	3.1kg	
Power Input	AC Input: 100 to 240VAC, 50/60Hz	
Power Consumption	Maximum: 444.1W (PoE on) • 82.1W (PoE off) • 240V: 18.25W	
Temperature	Operating: 0 to 50 C • Storage: -40 to 70 C	
Humidity	Operating: 10% to 90% RH, non-condensing • Storage: 5% to 90% RH, non-condensing	
MTBF	205,975 hours	
Heat Dissipation	1,515 BTU/h	
IME	FCC Class A · CE · CCC · RoHS · VCCI · BSMI · RCM	
Safety	UL/CSA 60950-1 · EN 60950-1 · IEC 60950-1	

P0-6106

1 input/6 outputs Audio Distributor



Distributor

- An audio distributor with 1 input and 6 adjustable-level outputs.
- Lets you distribute a 0-dB analog audio signal across up to 6 outputs with no level loss.

Model	P0-6106
Audio input	1x XLR female balanced 0dB
Audio outputs	6x XLR male balanced 0dB
Bandwidth (±3dB)	20 to 20,000Hz
Input sensitivity	1V ±0.2V
Max output level	3V ±0.5V
S/N Ratio	> 70dB
THD	< 0.1%
Power source	AC 220V or DC 24V
Dimensions (WxHxD)	482 x 44 x 280mm · 1U
Weight	4kg



Rear panel

Intercom

PB-6207

24VDC battery charger



• The PB-6207 is a unit for recharging the battery to insure that the battery's maximum charge capacity is achieved.

BATTERY AUTO RECHARGING

It charges with maximum 3A, when it close to full charging (26.4V) the electric current will be reduced up to 10mA~20mA for maintaining a full charging.

· VOLTAGE/CURRENT DISPLAY

Front LCD displays status of power distribution (Voltmeter/ Amperemeter).

• PC MONITORING

The charging voltage and current can be monitored by window program of 6800 System.

Model	PB-6207
Full charge voltage	26.4V
Starting current	3A Max.
Operating temperature	-10°C ~ 40°C
Power source	230VAC · 50/60Hz
Dimensions (WxHxD)	482 x 88 x 280mm · 2U
Weight	6kg



Rear panel



BACKUP BATTERIES

Stationary sealed lead batteries, gas recombination, valve regulated, maintenance free

• 12V - 17Ah : **BAT12V17AH** • 12V - 25Ah : **BAT12V25AH** • 12V - 38Ah : BAT12V38AH • 12V - 65Ah : **BAT12V65AH** • 12V - 78Ah : **BAT12V78AH** • 12V - 100Ah : **BAT12V100AH** • 12V - 150Ah : **BAT12V150AH**

• 12V - 210Ah : **BAT12V210AH**

PC-2104

Intercom Master Station - 4 directions



- Stand-alone master stations 4 directions
- Integrated microphone
- · High efficiency- class D
- · High acoustic quality
- 4 directions + All-call
- Adjustable volumes
- · Can be laid on a table or fixed vertically on a wall



- The PC-2104 is a master station which can be connected to 4 remote units.
- This high efficiency intercom unit is equipped with a class D amplifier and an integrated loudspeaker offering high sound reproduction with good intelligibility.
- Metal casing covered with epoxy painting guarantees shock resistance.
- The PC-2104 can be laid on a table or fixed vertically on a wall and can be used with all our remote stations (PS-2101, PS-2601, PS-630 et PS-901).

Model	PC-2104
Master station power	1,2 W
Remote station impedance	16 Ω / 50 Ω
Qty of remote stations	4
Call to remote station	Vocal or sound
Call from remote station	Sound and luminous
Stored call	Yes
Speech / listening function	Manual
All-call	Yes
Electric strike control	Yes
Connection cable	Schielded pair
Dimensions	260 x 160 x 51 mm
Color	Black and grey
Material	Metal
Weight	1,55 kg

PUBLIC

Intercom

Intercom

NEW

PC-2108

Intercom Master Station - 8 directions



- Stand-alone master stations 8 directions
- Integrated microphone
- · High efficiency- class D
- High acoustic quality
- 8 directions + All-call
- Adjustable volumes
- Can be laid on a table or fixed vertically on a wall

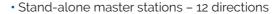


- The PC-2108 is a master station which can be connected to 8 remote units.
- This high efficiency intercom unit is equipped with a class D amplifier and an integrated loudspeaker offering high sound reproduction with good intelligibility.
- Metal casing covered with epoxy painting guarantees shock resistance.
- The PC-2108 can be laid on a table or fixed vertically on a wall and can be used with all our remote stations (PS-2101, PS-2601, PS-630 et PS-901).

Model	PC-2108
Master station power	1,2 W
Remote station impedance	16 Ω / 50 Ω
Qty of remote stations	8
Call to remote station	Vocal or sound
Call from remote station	Sound and luminous
Stored call	Yes
Speech / listening function	Manual
All-call	Yes
Electric strike control	Yes
Connection cable	Schielded pair
Dimensions	260 x 160 x 51 mm
Color	Black and grey
Material	Metal
Weight	1,55 kg

PC-2112

Intercom Master Station - 12 directions



- Integrated microphone
- High efficiency- class D
- High acoustic quality
- 12 directions + All-call
- Adjustable volumes
- Can be laid on a table or fixed vertically on a wall



- The PC-2112 is a master station which can be connected to 12 remote units.
- This high efficiency intercom unit is equipped with a class D amplifier and an integrated loudspeaker offering high sound reproduction with good intelligibility.
- Metal casing covered with epoxy painting guarantees shock resistance.
- The PC-2112 can be laid on a table or fixed vertically on a wall and can be used with all our remote stations (PS-2101, PS-2601, PS-630 et PS-901).

Model	PC-2112
Master station power	1,2 W
Remote station impedance	16 Ω / 50 Ω
Qty of remote stations	12
Call to remote station	Vocal or sound
Call from remote station	Sound and luminous
Stored call	Yes
Speech / listening function	Manual
All-call	Yes
Electric strike control	Yes
Connection cable	Schielded pair
Dimensions	260 x 160 x 51 mm
Color	Black and grey
Material	Metal
Weight	1,55 kg

PUBLIC

Intercom

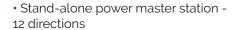
Intercom

PC-3112

Stand-alone intercom master station







- High efficiency- class D
- High acoustic quality
- Locked microphone plug
- 12 directions + All-call
- Integrated microphone and palm microphone
- Can be laid on a table or fixed vertically on a wall
- Flush mounted





• The PC-3112 is a high power intercom unit.

- It is intended for industrial applications (workshops, warehouses, car parks...) and noisy areas for which the provided hand-held microphone is perfectly adapted.
- This high efficiency intercom unit is equipped with a class D amplifier and an integrated loudspeaker
- offering high sound reproduction with good intelligibility.
- The PC-3112 can be used with all our remote stations (PS-2101, PS-2601, PS-630 et PS-901).

Model	PC-3112
Master station power	15 W / 16 Ω
Remote station impedance	5 W / 50 Ω
Qty of remote stations	12
Call to remote station	Vocal or sound
Call from remote station	Sound and luminous
Stored call	Yes
Speech / listening function	Manual
All-call	Yes
Power supply	18 to 26 V (power supply 24V / 3A not included)
Connection cable	Schielded pair
Dimensions	332 × 172 × 43 mm
Color	Black and grey
Material	Metal
Weight	2,9 kg

PS-2101

Intercom substation





- High acoustic quality
- Secret function
- Integrated microphone
- Refined design
- Wall or table mounting





• The PS-2101 is an intercommunication remote station for tertiary and industrial applications (gas stations, car parks, restaurants,...).

• This high efficiency intercom offers high sound reproduction with good intelligibility.

Metal casing covered with epoxy painting guarantees

impact resistance.

- The PS-2101 can be laid on a table or fixed vertically on a wall.
- It is compatible with our master stations (PC-2104, PC-2108, PC-2112 et PC-3112).

Model	PS-2101
Line impedance	16 Ω
Secret function	Yes
Connection cable	Schielded pair
Dimensions	155 x 82,4 x 41,2 mm
Colour	Black and grey
Material	Metal
Weight	0,9 kg

PUBLIC

Intercom

Intercom

PS-2601

Intercom substation

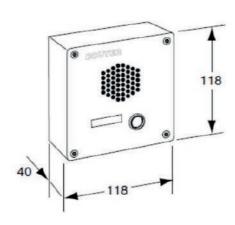




- Vandal call button
- Waterproof
- Noisy areas
- Integrated microphone
- Vandal-resistant construction
- Indoor and outdoor
- Impedance 50 Ohms
- Power 1W



- The PS-2601 is an intercommunication remote station.
- It can be used either as standalone station or with call/ answer function thanks to its vandal call button and integrated loudspeaker.
- Its high efficiency ensures an excellent sound distribution, especially in noisy areas.
- It is weather and shock-resistant and can therefore be used anywhere outdoors.
- Its fixing device allows flush-mounting or wall-mounting.



Model	PS-2601
Acceptable power	1W
Impedance	50 Ω
Loudspeaker	Mylar membrane
Dimensions	118 x 118 x 40 mm
Color	Ivory RAL 1013
Material	Aluminium / Metal
Weight	0,350 kg

PS-630

Intercom substations for noisy environments



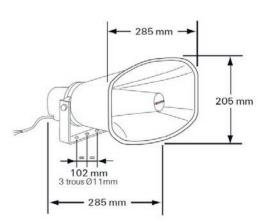


- Noisy areas
- Horn speaker
- Swivel bracket
- IP 54 protection index





- The PS-630 is a horn-loudspeaker-type intercom remote station.
- Its high performance ensures perfect speech reproduction over long distances and excellent sound distribution in noisy areas.
- Made out of ABS, it is weather and schock resistant and can therefore be used anywhere outside.
- Its fixing device makes easier its orientation and ensures quick and easy installation.



Model	PS-630
Master station power	15W
SPL	104/dBA/1W/1m
SPL max	116/dBA/10W/1m
Bandwidth	400Hz - 5kHz
Impedance	50-60 Ω
Directivity-6dB	Vertical : 50° Horizontal : 70°
Connection cable	1 screened pair
Dimensions	285 x 285 x 205 mm
Color	White RAL 9010
Material	Horn : ABS. Brackets : Aluminium.
Weight	1,8 kg
Particularity	Swivel bracket. For use with PS2601.

Intercom

Intercom

PS-901

Intercom substation for use in noisy or isolated areas

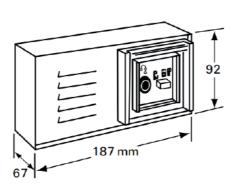




- Secondary stations suited to all environmental constraints
- Works with PZ-10 headset



- The PS-901 is an intercommunication remote station designed for use in noisy environments and/or environments which are subject to humidity, dust or other adverse physical conditions.
- It can be used with a headset with microphone (PZ 10) for applications in extremely noisy environments.
- The casing is in stove-enamelled galvanized sheet
- The front panel contains the "Call" push-button and a 6.35 mm jack for a headset of the PZ 10 type, both protected by a transparent sealing flap.



Model	PS-901
Power	0.5 W
Dimensions	187 x 67 x 92 mm
Color	Grey and black
Material	Metal cabinet
Weight	0,7 kg

PZ-10

Headset microphone for PS-901 intercom substation



- · Microphone headset for noisy surroundings
- Dynamic microphone
- · Sound-insulated closed headphones
- 6.35 mm jack plug
- Works with PS-901 intercom substation





- The PZ-10 is a headset with microphone for the PS-901 intercom substation.
- It enables discreet, direct, noise-free conversation.

Model		PZ-10
	Acoustic insulation	>10 dBA
	Frequency range	100 - 10 000 Hz
Headset	Sensibiblity	88 dB
	Power handling capability	200 mW
	T.H.D.	< 3%
	Туре	Dynamic
Microphone	Polar Pattern	Hypercardioid
Microphone	Frequency range	100 - 10 000 Hz
	Sensitivity	0,8 mW/Pa
Accessory		1,5m cable and jack 6,35 plug
Weight		0,275 Kg

IZ-2020

20-way intercom central unit





- 20-way intercom central unit
- Cascadable up to 80 directions
- Music source management
- Integrated line monitoring
- Easy installation through bus
- Music broadcasting via AUX input



- The IZ-2020 is a 20-way intercom central unit with mains power supply.
- It is possible to cascade 4 IZ-2020 to get an installation with 80 remote stations.
- The IZ-2020 is provided with monitoring system for

remote lines and music broadcasting zone control.

• Works with intercom substation from 16 Ω to 50 Ω .

Model	IZ-2020
Audio signal	2,2 V
Speech line output	16 Ω
Bus audio signal	- 10 dBu
Dimensions	378 x 206 x 75 mm
Color	Anthracite grey
Material	Casing : metal
Weight	3,4 kg

CONF-RJ45-SWITCH

2 ports RJ45 splitter



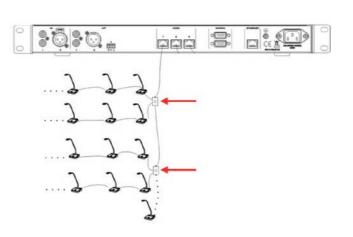


Compact box

• 2 RJ45 ports for star wiring architecture



• This RJ45 splitter is used to add a star wiring configuration to a conference system loop or bus, as in the example below:



Model	CONF-RJ45-SWITCH
Ports	4 ports RJ45 2 ports for bus wiring 2 ports for star wiring
Power	48 VDC (supplied by main unit)
Consumption	0.9 W
Dimensions	80 x 50 x 23 mm
Color	Black
Material	Metal
Weight	100g

IG-1900

Counted intercom

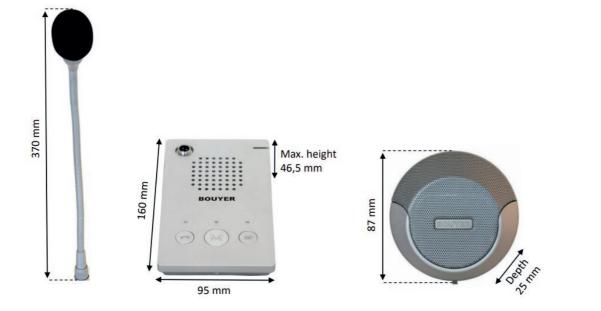
- Ideal counters & ticket offices
- Console with embedded mic. & loudspeaker
- Robust all-in-one client-side module
- Quick and easy installation

tion in total safety.



- The counter intercom IG-1900 is ideal for closed counters or counters with glass/plexiglass protection. •It facilitates the transmission of messages between interlocutors and guarantees intelligible communica-
- It also has intelligent audio functions such as active noise reduction and automatic sound level adjustment to ensure optimal exchange quality.
- It consists of a microphone console with integrated loudspeaker on the counter side (receptionist) and an all-inone module with microphone and integrated loudspeaker on the customer side.
- An AUX output also allows you to connect a magnetic induction loop, for example.

Detailed dimensions



Model	IG-1900
MAIN CONSOLE	10 1700
Microphone type	Condensateur – Unidirectionnel
Sensitivity	- 46 dB
Frequency response	20 Hz - 16 kHz
Embedded speaker	3 W (100Hz - 18kHz)
Power supply	DC 12V 1.5A / Conso. ≤ 5W (Mains charger EU type C plug supplied)
Temperature range	-10° / + 50°C
Humidity range	≤ 90% RH
Color	Silver
Material	Steel
Dimensions (I x p x h)	95 x 160 x 46.5mm
Weight	440 g
SECONDARY UNIT CLIENT'S MODULE	
Microphone type Electret - Unidirectional	
Sensitivity	- 46 dB
Frequency response	20 Hz - 16 kHz
Embedded speaker	3W (92 dB @ 1W / 1m) 100 Hz - 18kHz
Power supply	Powered by main console
Temperature range	-10° / + 50°C
Humidity range	≤ 90% RH
Color	Silver
Material	Aluminium
Dimensions (I x p x h)	87 x 25 x 87mm
Weight	200 g





BOUCLE COMPTOIR (NOT INCLUDED)

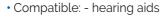
This small self-adhesive magnetic loop is designed for sending induction loop signals over limited areas, such as individual consultation stations or receptions. Mounting, usually below a table surfac, is achieved using self-adhesive clamps for a 35 x 35 cm surface.



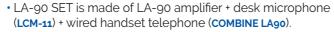
LA-90 SET

Induction loop amplifier set for desk with microphone and wired handset telephone





- cochlear implants
- inductive receivers
- · Suitable for public places (desk, point of sale, home, office...)
- Easy to use
- Provided with desk microphone and wired handset telephone
- EN 60118-4 compliant



- It is suitable for public place in order to facilitate communication with hearing loss person.
- Instalation is quick and easy, you have to put the device between you and the pared person who set his protheses on "T" or "MT" position.
- For no pared person, it is possible to use the wired handset telephone.
- The voice picking is performed dy the desk microphone avoiding larsen and use in poor acoustic conditions.
- Desk microphone level can be adjustable by a knob and it is supplying by LA-90 and doesn't need battery.
- Handset telephone and microphone are powered as soon as LA-90 is turned on.
- For stationary use, the device can be screwed to the countertop, wall or locked by a Kensington™ lock.



LA-90 rear panel

Model LA-90 SET **Autonomy** 6h on battery Magnetic field distance 1m SPL max 60dB Integrated microphone Audio input / output External MIC input: Jack 3.5mm with adjustable level / Headphone output: Jack 3.5mm with adjustable level 3 position: internal mic / external mic / both mic Microphone station Directional with gooseneck supplying by LA-90 100 - 240V AC 50 - 60Hz / 16V DC or integreted battery 12V **Power source Ergonomic handset** Wired to LA-90 by spiral cord Dimensions (WxHxD) (mm) LA-90: 185 x 200 x 70 / Handset: 45 x 215 x 45 / Desk microphone: base: 140 x 150 x 20 - Gooseneck: ~ 370 Battery - Power supply - 1 black insert - 4 cross ear stickers - 1 template **Provided accessories** Weight LA-90: 635g with battery - microphone: 453g - handset: 155g

LA-90 Portable induction loop system for desk



- Compatible: hearing aids
 - cochlear implants
 - inductive receivers
- · Suitable for public places (desk, point of sale, home, office...)
- Easy to use
- Customizable insert
- EN 60118-4 compliant
- Portable induction loop LA-90 is intended for people with hearing loss. It is ready to use right away: at the hotel reception desk, an information counter or when you're out shopping. In short: anywhere where it's important for you to hear what is being said.
- Instalation is quick and easy, you have to put the device between you and the pared person who set his protheses on "T" or "MT" position.
- For no pared person, it is possible to use the stethoscopic receiver LPU-1.
- To pick up external sound, the LA-90 is equipped with an integrated microphone as well as a connection jack for an external microphone.
- External microphone level can be adjustable by a knob.
- A 3.5mm Jack allows you to connect headphones.
- For stationary use, the device can be screwed to the countertop, wall or locked by a Kensington™ lock.

Model	LA-90	
Autonomy	6h on battery	
Magnetic field distance	1m	
Integreted microphone	SPL max 6odB	
Input / Output	Jack 3.5mm MIC input with adjustable level - Jack 3.5mm headphones output with adjustable level	
Control	3 position: internal mic / external mic / both mic	
Power source	100 - 240V AC 50 - 60Hz / 16V DC or integreted battery 12V	
Dimensions (WxHxD)	185 x 200 x 70mm	
Colour	silver-metallic	
Provided accessories	Battery - Power supply - 3 inserts (blue, bordeau, yelow) - 4 crossed ear stickers - 1 template	
Weight	635g (with battery)	

Accessories





LCM-11 Desk microphone

- · Gooseneck microphone with male XLR connection.
- · Supplied with a 1,80m cord, a female XLR connector on the microphone side and a 3.5 mono jack for the amp side.





- · Supplied with the black band that attaches to the LA-90 which contains a small notch at the top to hold the handset.
- 3.5mm jack connector.

Induction loop



CRESCENDO 60 M

Universal audio amplifier

- The CRESCENDO 60 M is an universal audio amplifier also designed for the reception of inductive audio signals.
- It is designed for televisions, radios and to facilitate conversations.
- The user receives the sound via a light and comfortable stethoscopic headset and can adjust the volume and the tone according to his preferences.
- The CRESCENDO 60 M can also be used as a pocket receiver for inductive audio signals transmitted via induction loop systems.

The CRESCENDO 60 M set includes:

- CRESCENDO 60 M
- Ultralight DIR stethoscopic headset
- Fastening clip and lanyard
- External microphone with 1.2 m cable
- 3m extension cable
- Carry strap and belt clip
- 2 AA 1.5 V batteries for 75 hours of operation



Model	CRESCENDO 60 M	
Power supply	2 x 1.5V AA batteries for 75 hours of operation	
Dimensions (WxHxD) 62 x 95 x 25mm		
Weight	120g	

PROLOOP C: induction loop amplifier for areas up to 170m²



Compliant with IEC 60118-4

- The PROLOOP C is designed for professional use in medium-sized rooms (up to 170 m²), in which particularly high dependability and extremely reliable operation are required.
- The PROLOOP C is 100-percent short-circuit-proof thanks to its automatic ressetable protection.
- Each of the two XLR3 inputs can be configured as LINE (balanced) or as microphone input (unbalanced).
- On MIC mode it is possible to activate the function: gain control and 40V phantom power for condenser microphones. Signal of each input are stabilized by AGC.
- Automatic Gain Control (AGC) guarantees consistent field strength and current on the cable loop.
- Monitoring output allows to chain the amplifier to another loop amplifier or other audio equipment requiring the same audio signal.

Model		PROLOOP C
Power		7 - 200W
Protectio	n	Passive: 10A fuse - Active protection against short-circuit
Coverage		170m² acc. to IEC 60118-4, single-loop, free field
Max. volt	age	31 V peak to peak
Max. curi	rent	60A peak to peak of 1-5ms, 4 A RMS @ 1kHz
AGC outp	ut	Sets voltage and power for steady signals like oscillation and sine curves after 0.6-1 seconds to -10dB. Short pulses and normal program signals are not limited
Connecto	r	Screw terminal
Bandwidth		100 to 5,000Hz (± 3dB)
Distortion		< 1%
Line Out		Monitoring output odBm-RCA
Headpho	nes output	Jack 6.35mm
Inputs		IN 1 and 2: 0.5mV-100mV / 10kΩ (mic.) alt. 25mV - 4 V/ 10kΩ (line) AGC, switchable phantom voltage, XLR connections; IN 3: 50mV-10V / 10kΩ, RCA connection
Audio	Dynamic	>70dB
inputs	Rise time	2 - 500ms
AGC Fall time		0.5 - 20dB/s
Control		Gain control: IN1, IN2, IN3 - Treble control: 0 - +9dB - Induction loop adjustment: 0 - 170 m²
Display		Mains connection: 1 green LED ; Input level: 1 green LED ; Induction loop power: 1 green LED
Power source		230 - 240VAC 50/60Hz
Dimensions (WxHxD)		295 x 64 x 205mm
Provided	accessories	19" rack mount bracket
Weight		3.6kg

Section of the loop cable: the section of the cable to be connected to the induction loop amplifier depends on the total length of cable required in the loop and its connection to the induction loop amplifier. For a system with low crosstalk cable length is important because of the pose in several segments. Do not hesitate to contact us before any installation.

Encircle area	Recommended cable cross-section
150 - 300m ²	2,5mm²
70 - 150m ²	1,5mm²
$\leq 70m^2$	1,0mm²



MALLETTE PROLOOP C

Portable induction loop case



- Complete set up to 125m²
- Extensible up to 170m² with optionnal additional cable
- The MALLETTE PROLOOP C contains a complete and portable induction loop system to equip surfaces of 125m² maximum.
- It is possible to increase surfaces up to 170m² thanks to an optional 12m cable.
- This set includes 1 PROLOOP C amplifier, 2 cable rollers of 20m each (for induction loop), 2 connection cords 1m and 5m, magnetic field meters PROLOOP FSM PLUS and 1 screw driver.



- Strong and compartimentalized case
- Quick and easy installation
- The principle is to place the two rollers in the length of the room (left and right) and connect the two rollers with the connection cable. The loop thus formed is connected to the amplifier.
- PROLOOP C amplifier (see data sheet) has 2 XLR3 inputs configurable as needed either audio input or microphone input. For MIC input it is possible to activate gain adjustement function and 40V phantom power. 1 LINE input on RCA allows you to connect directly devices equiped with RCA output.

Model	MALLETTE PROLOOP C	
Coverage	125m² CEI 60118-4 (170m² with optional additional cable)	
Colour	Silver-metallic	
Dimensions (WxHxD)	610 x 210 x 360mm	
Provided items	PROLOOP C, 2 cable rollers of 20m each, 2 connection cords 1m and 5m, PROLOOP FSM PLUS and 1 screw driver	
Weight	11kg	



The <u>PROLOOP FSM PLUS</u> (see p.246), included into the package, determines magnetic field and comply the installation with the CEI 60118-4 Standard

PROLOOP NX3: Induction loop amplifier for areas up to 56 m²



- The PROLOOP NX3 is designed for small-sized rooms (up to 56 m²). It is primarily designed for continuous use. The integrated switch mode power supply and the Class-D amplifier design enable high efficiency and low waste heat. Among other things, this results in the high reliability and operational safety.
- · Automatic Gain Control (AGC) ensures a consistent level on the listening loop.
- · Metal Loss Correction (MLC) can be used to correct the frequency response due to metal structures.
- The balanced input 1 can be switched between microphone and line sensitivity. It also provides 48V phantom power for condenser microphones
- The unbalanced input 2 handles line level signals or the audio signal of an electret microphone.
- Input 3 is specially designed for connecting media players via a 3.5 mm setero jack. Stereo signals are summed to mono.





Rear panel

Model	PROLOOP NX3
Coverage	56 m²
Power supply	100-240 V AC 50/90 Hz
Power consumption max.	30 W
Metal Loss Correction (MLC)	0-4 dB/Octave
Cooling	fanless
Dimensions (HxBxT)	32 x 167 x 95 mm
Weight	0.37 kg
Amplifier output	
Loop current max.	2,5 A RMS
Loop voltage max.	12 V RMS
Frequency range (± 1,5 dB)	80 Hz - 6 kHz
Loop resistance DC	0,2 - 1,0 Ω
Output	
Loop connection	2 pol. Euroblock plug
Inputs	
Input 1	5-20 mV / 2 k Ω / 48 V (MIC), balanced 100 mV - 2 V / 10 k Ω (LINE) balanced switchable, 3 pol. Euroblock plug
Innut 2	5-20 mV / 2 k Ω / 5 V (MIC) unbalanced 3,5 mm stereo Jack
Input 2	100 mV - 2 V / 10 k Ω (LINE) unbalanced 3 pol. Euroblock plug
Input 3	316 mV - 6 V / 10 k Ω (LINE) unbalanced 3,5 mm stereo Jack
Automatic Gain Control (AGC)	
AGC	voice-optimised
Dynamic range	>40 dB



Induction loop



PUBLIC ADDRESS

PROLOOP NX7: Induction loop amplifier for areas up to 420 m²

- The PROLOOP NX7 is designed for areas up to 420 m². It is primarily designed for continuous use. The integrated switch mode power supply and the Class-D amplifier design enable high efficiency and low waste heat. Among other things, this results in the high reliability and operational safety.
- · The function of the induction loop and the amplifier is continuously monitored. A functional error is indicated via displays on the unit and at the error output.
- Automatic Gain Control (AGC) ensures a consistent level on the listening loop
- Metal Loss Correction (MLC) can be used to correct the frequency response due to metal structures present in the building.
- · Link connections allow several PROLOOP NX Amplifiers to be combined into one unit.





Rear panel

- The output signal can be monitored via a headphone changed.
- A screw-fixed cover plate prevents the setting from being

• The power switch on the back prevents the unit from being switched off unintentionally.

Model	PROLOOP NX7
Coverage	420 m ²
Power supply	110-265 V AC 50/60 Hz
Power consumption max.	225W
Metal Loss Correction (MLC)	0-4 dB/Octave
Cooling	fanless
Dimensions (HxBxT)	43 × 430 × 290 mm 19" 1U
Weight	3,72 kg
Amplifier output	
Loop current max.	7 A RMS
Loop voltage max.	34 V RMS
Frequency range (± 1,5 dB)	80 Hz - 6 kHz
Loop resistance DC	0,5 - 3,0 Ω
Outputs	
Headphone	3,5 mm stereo Jack
Link connections	6,3 mm Jack, balanced
Status connection	3 pol. Euroblock plug
Loop connection	NL4 Speakon Twist 1+ parallel to 2+ / 1- parallel to 2-
Inputs	
Input 1	5-100 mV / 2 k Ω / 48 V switchable (MIC) 100 mV - 6 V / 10 k Ω (LINE) switchable, Combo Jack
Input 2	5-100 mV / 2 k Ω / 48 V switchable (MIC) 100 mV - 6 V / 10 k Ω (LINE) switchable, Euroblock plug
Input 3	100 V Priority input 2 pol. Euroblock plug
Link in/out/out 90°	6,3 mm Jack, balanced
Automatic Gain Control (AGC)	
AGC	voice-optimised
Dynamic range	>40 dB

PROLOOP NX15: Induction loop amplifier for areas up to 1 400 m²

- The PROLOOP NX15 is designed for areas up to 1 400 m². It is primarily designed for continuous use. The integrated switch mode power supply and the Class-D amplifier design enable high efficiency and low waste heat. Among other things, this results in the high reliability and operational safety.
- The function of the induction loop and the amplifier is continuously monitored. A functional error is indicated via displays on the unit and at the error output.
- Automatic Gain Control (AGC) ensures a consistent level on the listening loop
- Metal Loss Correction (MLC) can be used to correct the frequency response due to metal structures present in the
- Link connections allow several PROLOOP NX Amplifiers to be combined into one unit.





Rear panel

- The output signal can be monitored via a headphone output.
- · A screw-fixed cover plate prevents the setting from being

• The power switch on the back prevents the unit from being switched off unintentionally.

Model	PROLOOP NX15			
Coverage	1 400 m²			
Power supply	110-265 V AC 50/60 Hz			
Power consumption max.	450W			
Metal Loss Correction (MLC)	0-4 dB/Octave			
Cooling	fanless			
Dimensions (HxBxT)	43 × 430 × 290 mm 19" 1U			
Weight	3,72 kg			
Amplifier output				
Loop current max.	14 A RMS			
Loop voltage max.	34 V RMS			
Frequency range (± 1,5 dB)	80 Hz - 6 kHz			
Loop resistance DC	0,5 - 3,0 Ω			
Outputs				
Headphone	3,5 mm stereo Jack			
Link connections	6,3 mm Jack, balanced			
Status connection	3 pol. Euroblock plug			
Loop connection	NL4 Speakon Twist 1+ parallel to 2+ / 1- parallel to 2-			
Inputs				
Input 1	5-100 mV / 2 k Ω / 48 V switchable (MIC) 100 mV - 6 V / 10 k Ω (LINE) switchable , Combo Jack			
Input 2	5-100 mV / 2 k Ω / 48 V switchable (MIC) 100 mV - 6 V / 10 k Ω (LINE) switchable, Euroblock plug			
Input 3	100 V Priority input 2 pol. Euroblock plug			
Link in/out/out 90°	6,3 mm Jack, balanced			
Automatic Gain Control (AGC)				
AGC	voice-optimised			
Dynamic range	>40 dB			



PROLOOP NX7 LOS: Induction loop amplifier for areas up to 1 200 m²

(low crosstalk)

- \bullet The PROLOOP NX7 LOS is designed for areas up to 1 200 m². It is is primarily designed for continuous use. The integrated switch mode power supply and the Class-D amplifier design enable high efficiency and low waste heat. Among other things, this results in the high reliability and operational sa-
- The function of the induction loop and the amplifier is continuously monitored. A functional error is indicated via displays on the unit and at the error output.
- Automatic Gain Control (AGC) ensures a consistent level on the listening loop.
- Metal Loss Correction (MLC) can be used to correct the frequency response due to metal structures present in the building.
- Link connections allow several PROLOOP NX Amplifiers to be combined into one unit.
- Loop output B can be switched between 0° or 90° phase shift.
- The output signal of both amplifier channels can be





Rear pane

- monitored via a switchable headphone output.
- A screw-fixed cover plate prevents the setting from being
- The power switch on the back prevents the unit from being switched off unintentionally.

Model	PROLOOP NX7 LOS				
Coverage	1 200 m ²				
Power supply	110-265 V AC 50/60 Hz				
Power consumption max.	450W				
Metal Loss Correction (MLC)	0-4 dB/Octave				
Cooling	fanless				
Dimensions (HxBxT)	43 × 430 × 290 mm 19" 1U				
Weight	3,8 kg				
Amplifier output					
Loop current max.	2x 7 A RMS				
Loop voltage max.	2x 34 V RMS				
Frequency range (± 1,5 dB)	80 Hz - 6 kHz				
Loop resistance DC	0,5 - 3,0 Ω				
Outputs					
Headphone	3,5 mm stereo Jack				
Link connections	6,3 mm Jack, balanced				
Status connection	3 pol. Euroblock plug				
Loop connection	NL4 Speakon Twist 1+ parallel to 2+ / 1- parallel to 2-				
Inputs					
Input 1	5-100 mV / 2 k Ω / 48 V switchable (MIC) 100 mV - 6 V / 10 k Ω (LINE) switchable, Combo Jack				
Input 2	5-100 mV / 2 kΩ / 48 V switchable (MIC) 100 mV - 6 V / 10 kΩ (LINE) switchable, Euroblock plug				
Input 3	100 V Priority input 2 pol. Euroblock plug				
Link in/out/out 90°	6,3 mm Jack, balanced				
Automatic Gain Control (AGC)					
AGC	voice-optimised				
Dynamic range	>40 dB				

PROLOOP NX15 LOS: Induction loop amplifier for areas up to 3 400 m²

(low crosstalk)

- \bullet The PROLOOP NX15 LOS is designed for areas up to 3 400 m². It is is primarily designed for continuous use. The integrated switch mode power supply and the Class-D amplifier design enable high efficiency and low waste heat. Among other things, this results in the high reliability and operational sa-
- The function of the induction loop and the amplifier is continuously monitored. A functional error is indicated via displays on the unit and at the error output.
- Automatic Gain Control (AGC) ensures a consistent level on the listening loop.
- · Metal Loss Correction (MLC) can be used to correct the frequency response due to metal structures present in the building.





- Link connections allow several PROLOOP NX Amplifiers to be combined into one unit.
- Low ouput B can be switched between 0° or 90° phase shift.
- •The output signal of both amplifier channels can be monitored via a switchable headphone output.
- A screw-fixed cover plate prevents the setting from being
- The power switch on the back prevents the unit from being switched off unintentionally.

Model	PROLOOP NX15 LOS		
Coverage	3 400 m ²		
Power supply	110-265 V AC 50/60 Hz		
Power consumption max.	900W		
Metal Loss Correction (MLC)	0-4 dB/Octave		
Cooling	fan-cooled, temperature controlled		
Dimensions (HxBxT)	43 × 430 × 290 mm 19" 1U		
Weight	3,8 kg		
Amplifier output			
Loop current max.	2x 14 A RMS		
Loop voltage max.	2x 34 V RMS		
Frequency range (± 1,5 dB)	80 Hz - 6 kHz		
Loop resistance DC	0,5 - 3,0 Ω		
Outputs			
Headphone	3,5 mm stereo Jack		
Link connections	6,3 mm Jack, balanced		
Status connection	3 pol. Euroblock plug		
Loop connection	NL4 Speakon Twist 1+ parallel to 2+ / 1- parallel to 2-		
Inputs			
Input 1	5-100 mV / 2 k Ω / 48 V switchable (MIC) 100 mV - 6 V / 10 k Ω (LINE) switchable, Combo Jack		
Input 2	5-100 mV / 2 k Ω / 48 V switchable (MIC) 100 mV - 6 V / 10 k Ω (LINE) switchable, Euroblock plug		
Input 3	100 V Priority input 2 pol. Euroblock plug		
Link in/out/out 90°	6,3 mm Jack, balanced		
Automatic Gain Control (AGC)			
AGC	voice-optimised		
Dynamic range	>40 dB		



LPU-1: induction loop receiver



- The LPU-1 stethoscopic induction loop receiver is intended to be use by people who do not wear hearing aids.
- Lightweight and easy to use, it is designed to be used in all places equipped with induction loop as churches, meeting rooms, theaters...

Model	LPU-1				
Autonomy	6 - 8h depends on the volume				
Bandwidth	70 - 5,400Hz				
THD	< 1%				
S/N ratio	6odB				
Maximum SPL	120dBA				
Control and display	On/Off by spreading temple - 1 On/Off LED - 1 volume wheel				
Power source	1 battery A100NIMH 180mAh				
Dimensions (WxHxD)	115 x 205 x 20mm				
Colour	Black case and grey temple				
Provided accessories	1 battery AP11A - 1 protective cover for volume control				
Weight	41g - 53g with battery				

Charging decks for LPU-1

Model	STATION POUR LPU-1	STATION 5 LPU-1		
Colour	Black			
Compartments	Compartments for one receiver and 2 batteries	5 compartments for 5 receivers in stand up position		
Power source	power supply 230V AC / 12V DC			
Dimensions (WxHxD)	162 x 30 x 100mm	310 x 30 x 160mm		
Weight	643g with power supply	850g with power supply		





Cases

MALLETTE LPU1

This case can contain 1 or 2 charging decks for 5 LPU-1 and up to 10 LPU-1 receivers. Charging decks and LPU-1 receiver to be ordered separately.



MALLETTE 15 LPU-1

- This aluminium case allows you to store and transport up to 15 LPU-1 on 3 shelves.
- · A second configuration with 2 shelves, 1 foam (ref. MOUSSE MALLETTE) and 2 charging decks (ref. **STATION 5 LPU-1**) allows you to store and recharge 10 receivers LPU-1.
- Case is provided without shelf, without foam and without charging deck. Contents should be ordered





Ref. EMBOUTS 24 PAIRES

Spare battery



Ref. ACCU A100 LPU-1

RCI-102: stethoscopic infrared receiver (mono or stereo)



Charging decks for 1 ou for 5 RCI-102 are the same than for LPU-1 (see p.244):

- This light and ergonomically designed stetoscopic receiver is equipped with swivelling earpieces, which means that the earpieces retain their position in the ear even when the user turns his/her head. The flexible material used to make the ear buds also nestles gently into the auditory canal to effectively subdue any ambient noise.
- The RCI 102 is equipped with a switch to select the frequency channels. Both channels are constantly active for stereo transmissions. If the event organizer uses both the 2.3MHz and the 2.8MHz frequency ranges to transmit in two different languages at the same time, the listener can select the channel in his/ her preferred language and receive the information in mono mode.

Model	RCI-102				
Autonomy	~ 5h				
Bandwidth	15 to 20,000Hz				
THD	< 1%				
S/N ratio	6odB				
SPL max.	~ 120dBA				
Control	On/Off by spreading temple - 1 volume wheel - Balance can be adjusted with the help of a screwdriver				
Power source	1 battery A100 NIMH				
Dimensions (WxHxD)	115 X 205 X 20				
Colour	Black case and grey temple				
Provided accessories	1 battery A100 NIMH				
Weight	52g with battery				



CASQUE IR IP112: headphones with 2-channel IR-receiver (mono or stereo)

- The wireless headset with 2-channel IR-receiver is suitable for the operation with transmitters operating on 2.3 or 2.8MHz. It reproduces audio signals in excellent sound quality.
- The easy to operate headset is equipped with a number of comfort functions including the adaptation of the sound pattern to individual listening preferences. The volume can be individually regulated on each side of the headset.

Model	CASQUE IR IP112					
Autonomy	20h					
Receiver frequencies	2.3MHz & 2.8MHz (can be switched)					
Reception Mode	360°					
Modulation	FM wide range					
Bandwidth	60Hz to 12kHz ± 3dB					
S/N ratio	54dB not weighted					
Power supply	2x AAA alkaline batteries					
Operating elements	ON/OFF, volume regulation left and right, channel selector switch					
Colour	Black					
Weight	200g					





PROLOOP FSM PLUS: magnetic field measurement device



- EN 60118-4:2006 compliant
- 2 modes: measurement of parasite magnetic field measurment of magnetic field strenght in induction loop
- RMS measurment set to 400 mA/m = odB
- Display: field strength via LED-scale
- · Headphones output with adjustable volume
- The PROLOOP FSM PLUS is a measuring device that measures the magnetic field strength of induction loop systems according to IEC 60118-4:2006 and BS 6083,
- The device is designed for professional used and delivers reliable RMS values on the output level, response frequency, AGC function (Automatic Gain Control), distortion and background noise in the induction looped tested.
- In addition, it enables the user to make an acoustic evaluation of the sound using signal reproduction via earphones.

Model	PROLOOP FSM PLUS				
True RMS	125ms average				
Measuring range	+ 6dB to - 40dB (0dB = 400mA/m)				
Headphone out	Jack 3.5mm				
Control	Measurement scale selection: 0db/-30dB - Headphones level control				
Display	Battery status control via LED - Field strength: via LED-scale (approx. 1dB resolution) / 1 LED = 1dB)				
Standard	Compliant with IEC 60118-4:006 and BS for testing equipment used to evaluate induction loop systems				
Power supply	2x AA alkaline batteries 1.5V				
Dimensions (WxHxD) (mm)	83 x 126 x 35				
Colour	dark grey				
Provided accessories	2 AA batteries - One test CD with normalized signals				
Weight	170g				

Listening Accessories

Lightweight headphones



Ref. CASQUE LÉGER



Stereo headphones disposable, 1.2m cord (10 pcs)



Ref. ECOUTEURS JETABLES

PR-22+: combined 2-channel infrared or induction loop signal receiver



- The PR-22+ (with AGC, Automatic Gain Control) is equipped with two receiver modules for induction loop signals and for infrared signals.
- The 3.5mm audio Jack makes it possible to connect variety of different listening components, such as an under-the-chin receiver, ear or headphones, a teleloop or monaural/binaural cords.
- PR-22+ operating on batteries, a charging deck is advisable.

Model	PR-22+					
Bandwidth	15 - 20,000Hz					
THD	<1%					
S/N ratio	60dB					
Maximum SPL	120dBA					
Control	On/Off switch - Tonality and volume adjustment wheels Reception mode switch (induction loop/ infrared)					
Power source	2 batteries 1.2V 750mAh AAA					
Dimensions (LxHxP)	75 x 68 x 22mm					
Colour	black					
Provided accessories	1 combined receiver - 2 1.2V 750 mAh AAA batteries - 1 necklace					
Weight	~ 60g (with batteries)					

Charging decks for PR-22+

Model	STATION 1 PR-22	STATION 5 PR-22		
Colour	Bla	ack		
Compartments	1	5		
Power source	Power supply 230V AC / 12V DC			
Dimensions (WxHxD)	137 x 38 x 89mm	325 x 60 x 260mm		
Weight	110g	640g		



STATION 1 PR-22

Magnetic necklace

COLLIER MAGNÉTIQUE: magnetic necklace with Jack mono (cord: 50cm)







Racks

PR0 IR-400

2-channel infrared transmitter with integrated modulator



- Wide infrared angle
- Suitable for 1 stereo transmition or 2x mono
- Modularity: several PRO IR-400 can be chained to increase the coverage surface
- Each PRO IR-400 has its own power supply
 - For a static system (ceiling mount or wall) or portable (with telescopic tripod)
- The infrared transmitter with integrated modulator has a wide angle in lobed shape.
- It ensures insensitivity to extraneous light operation with frequency modulation infrared signals on 2.3 and 2.8MHz.
- The PRO IR-400 allows transmission coverage of 2600m² in single-channel mode, which makes it suitable for larger rooms.
- Coupling several PRO IR-400 can increase or multiply significantly the coverage surface. Not to mention that the choice of the type of receptor (CASQUE IR IP112, RCI-102, PR-22+) also influences the covered area.
- Fixing the PRO IR-400 is possible on a wall, ceiling or on a stand with 1/4 inch screw for a mobile application.

Model	PRO IR-400					
Modulation	2.3MHz - 2.8MHz					
Coverage	up to 2600m² in mono channel mode					
Bandwidth	80 to 15,000Hz					
THD	< 2%					
Inputs	2 audio line inputs (R and L), 2 mic inputs (L and R), 2 RCA synchronisation inputs (L and R)					
Outputs	2 RCA synchronisation outputs (L and R)					
Power source	230V AC 50Hz, 35VA					
Dimensions (WxHxD) (mm)	540 x 286 x 159					
Colour	black					
Provided accessories	Power supply - Wall and ceiling bracket					
Weight	1.1kg					

RACK 19" 8U / 12U / 22U / 32U / 37U / 42U EX : mounted

RACK 19" 8U / 12U / 22U / 32U / 37U / 42U CF CB : mounted, tested and wired







- 8U / 12U / 42U racks : removable rear & side panels, front glass door with key lock.
- 22U / 32U / 37U racks : removable side panels with key lock, front glass door & rear door with key lock.
- Supplied with fans (depending on model), electrifications, wheels and brackets.

Model	RACK 19" 8U	RACK 19" 12U	RACK 19" 22U	RACK 19" 32U	RACK 19" 37U	RACK 19" 42U
Number of units	8	12	22	32	37	42
Dimensions (mm) (with wheels)						
Depth Width Height	600 600 544	600 600 722	800 600 1169	800 600 1 613	800 600 1 835	800 600 2 074
Number of fans	0	0	2	2	2	2
Colour			RAL 9005			RAI 9004

19" solid blank panel

- Fills unused space in the rack.
- Improves cooling efficiency and optimizes airflow circulation.

Models	Height (U)	Dimensions (mm) W x D x H	Color	Material
PB 9100	1U	483 × 42 × 10		
PB 9200	2U	483 × 88 × 10	Black	Cold rolled
PB 9300	3U	483 × 132 × 10	RAL9005	steel
PB 9400	4U	483 × 175 × 10		(SPCC)



19" fixeD shelf

· Ideal for non-rackmount equipment.

Models	Rack depth	Dimensions (mm) W x D x H	Height (U)	Color	Material	Load capacity
PLATEAU RACK 600	600 mm	483 x 350 x 88	2U	Black	Cold rolled	20 kg
PLATEAU RACK 800	800 mm	470 × 550 × 48	2U	RAL9005	steel (SPCC)	90 kg



19" Reinforced fixeD shelf

• Fixed shelf with reinforcement for heavy loads, ideal for batteries

Models	Rack depth	Dimensions (mm) W x D x H	Height (U)	Color	Material	Load capacity
PLAT RENF BAT 600	600 mm	470 x 350 x 48	2U	Black	Cold rolled	90 kg
PLATEAU RENF BAT	800 mm	483 × 550 × 43	1U	RAL9005	steel (SPCC)	120 kg



PLAT RENF BAT 600

19" sliding shelf

· Ideal for non-rackmount equipment.

Models	Rack depth	Height (U)	Depth (mm)	Color	Material	Load capacity
PLAT GLISSIERE 2U	600 mm	2U	400	Black	Cold rolled	20 kg
PLAT GLISSIERE 800	800 mm	1U	550	RAL9005	steel (SPCC)	35 kg



PLAT GLISSIERE 800

19" lockable drawer with handle

- · Ideal for storing and protecting documentation or sensitive material in the bay.
- Equipped with key lock and handle.
- · Supplied with 2 keys.

Models	Rack depth	Dimensions (mm) W x D x H	Height (U)	Color	Material
TIROIR RGMT 2U	600 mm	483 x 350 x 89	-1.1	Black	Cold rolled
TIROIR 2U RACK 800	800 mm	483 x 550 x 89	2U	RAL9005	steel (SPCC)



DI BOX

Passive direct injection box



- DI BOX is a passive balanced box allow you to carry audio signals over long distances.
- It has an unbalanced mono jack input with parallel connection, a balanced XLR output and GND - LIFT selector to limit the "noise".

PUBLIC ADDRESS

PATL-100

100V to audio line level converter



- Box for connecting a 100V audio signal source to devices with line input
- Adjustable line output level (0-5.6V at 100V input voltage), can be switched internally for other output voltages
- 100V input with plug-in screw terminal



- Balanced XLR output, impedance: $1k\Omega$, XLR panel plug
- Insulated plastic housing
- Galvanically isolated input and output

Model	PATL-100			
Input	Screw terminal (100V)			
Output	XLR, balanced			
Output signal	0-15V			
Operating temperature	0°C ~40°C			
Dimensions (WxHxD)	171 x 81 x 61mm			
Weight	0,520kg			

Notes

Connection plates



BA HP

Red and Black spring Speaker connector to screw terminal 2 modules.



RA D.145

RJ45 female wall socket to screw terminal 1 module.



BA JACK 3.5MM

Jack 3.5mm TRS female wall socket to screw terminal 1 module.



BA XLR

XLR 3P female wall socket to screw terminal 2 modules.



BA JACK 6.35MM

Jack 6.35mm TRS female wall socket to screw terminal 1 module.



BA RCA

RCA stereo female wall socket to screw terminal 2 modules.



BA DIN5P

DIN 5P female wall socket to screw terminal 2 modules.



BOITE 1 POSTE 50 MM

In wall box for BA wall socket. Depth 50mm.



MODULE SAILLIE BA

On wall box for BA wall socket. Optional.

Qualifications & certifications

An export sales network to meet your needs

Our systems strictly comply with the requirements of European EN 54 and international ISO standards. These certifications, genuine proof of quality and reliability, give you total peace of mind while ultimately guaranteeing the safety of the public concerned.



The EC marking of our products guarantees compliance with the European regulation in terms of safety,health and environmental protection while ensuring their free circulation within the European Union.



Stands for "Restriction of the use of certain Hazardous Substances in electrical and electronic equipment". Our products respect the RoHS European directive (2002/95/EC), the purpose of which is to limit the use of certain heavy metals and other harmful materials.



Our **EN-54** products comply with European safety requirements in terms of fire detection and alarm systems.



EN 54-16 concerns the voice alarm control and indicating equipment.



EN 54-24 concerns the components of voice alarm systems (Loudspeakers).

EN 54-4 concerns the power supply equipment.



Our **ISO 7240** products comply with International safety requirements in terms of fire detection and alarm systems.

ISO 7240-24 concerns the components of voice alarm systems (Loudspeakers).



DANTE is the newest networking standard for audio developed by Audinate. It respects the standard Ethernet standard and is compatible with the future standard AVB. Advantage: high number of channels and multi-format, low latency, native redundancy, automatic network configuration, use of standard Ethernet hardware.



Establishments receiving services from the public shall be such as to enable persons with disabilities to access, circulate and receive information disseminated therein in the areas open to the public. In this context, the installation of a magnetic induction loop amplifier for the hearing impaired Check-out counters, meeting rooms, conference rooms, shows..., is imperative. This does not apply only to E.R.P. but also to the liberal professions and traders.

MAJORCOM is ISO 9001 certified



The ISO 9001:2015 certification of the quality management system demonstrates MAJORCOM's commitment to delivering a quality service and satisfying its customers while constantly improving its quality management systems. The award of an ISO 9001:2015 certificate by a prestigious company like BUREAU VERITAS is proof of high quality and also demonstrates that MAJORCOM complies with the quality management principles recognised at the highest international level.



