PROFESSIONAL SOUND

PROFESSIONAL POWER AMPLIFIER

LOCK OFF   PC OFF
DSP [IN <-> OUT]
CH1   VOL : 100
CH2   VOL : 100
CH3   VOL : 100
CH4   VOL : 100
IP : 192.168.1.99   (S)

MENU

ESC

SELECT / ENTER

DSA-2000Q

PRT   PRT   PRT
-10   -10   -10
-30   BRG   -30   BRG   -30
       1-2   3-4

CH1 / MUTE   CH2 / MUTE   CH3 / MUTE   CH4 / MUTE

inter M   DSA SERIES

CATALOG 2024

MAJORCOM:

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, MAJOR-COM is commited 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
- Loudpeakers
- PPMS, 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

+ 30,000
End customers

+ 1,000
Loyal 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**

NEWSLETTER: recommendations, innovations, invitations to trade shows… To keep up with all the MAJORCOM news, subscribe to our newsletter at **www.majorcom.fr**

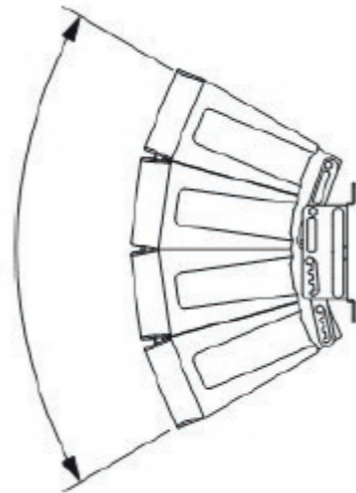## CLA-200: **Compact line array 200 W - 8 Ω**

NEW

- 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.

- Thanks to its removable sealing plate, the system can be used both indoors and outdoors.

- 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)

NEW

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.
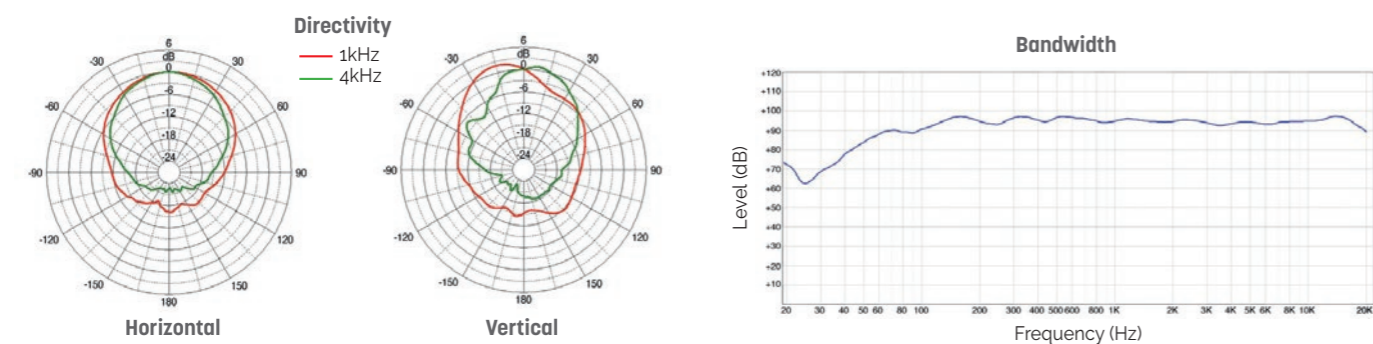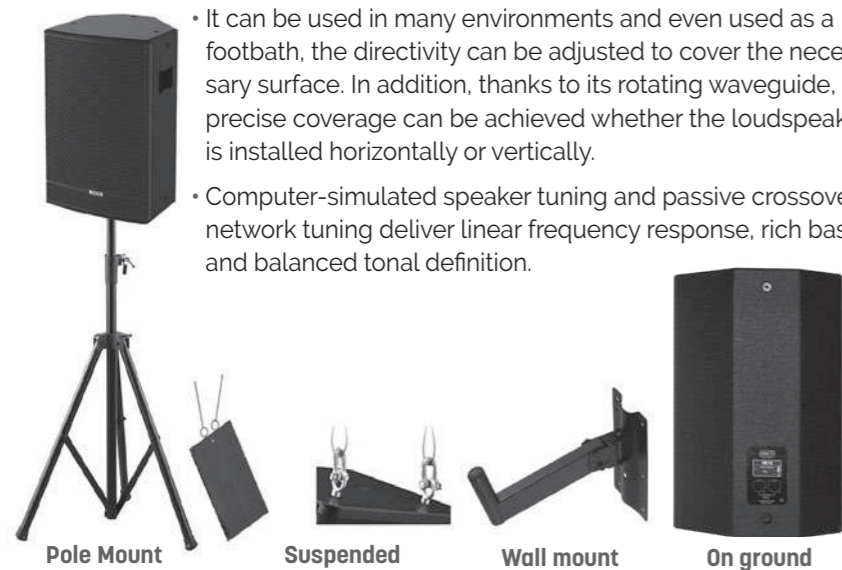
Model	CLA-200
Enclosure	Sealed or bass-reflex (removable sealing plate)
Power Handling Capacity	Continuous pink noise : 200 W Continuous program : 600 W
Rated Impedance	8Ω
Sensitivity (1W, 1m)	96dB (60° mode) 97dB (45° mode) 98dB (30° mode) 99dB (15° mode)
Frequency Response	70 – 20,000Hz (60° mode) 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.

HE-12: 2-way passive multipurpose compact loudspeaker 400W - 8Ω

- The HE 12 is a passive 2-way loudspeaker with a high-performance woofer and a high-power titanium driver that adapts to a wide frequency range. This full-range loudspeaker provides great clarity
  - It can be used in many environments and even used as a footbath, the directivity can be adjusted to cover the necessary surface. In addition, thanks to its rotating waveguide, precise coverage can be achieved whether the loudspeaker is installed horizontally or vertically.
  - Computer-simulated speaker tuning and passive crossover network tuning deliver linear frequency response, rich bass, and balanced tonal definition.

Pole Mount   **Suspended**   **Wall mount**   **On ground**

Directivity
— 1kHz
— 4kHz

Horizontal   **Vertical**

Bandwidth

Level (dB)

Frequency (Hz)

Model	HE 12
Type	12" 2Way Passive Point Source
Bandwidth (±3dB)	107Hz ~ 19,000Hz
Bandwidth (-10dB)	51Hz ~ 20,000Hz
Rated Power ((AES)	400W
Rated Power ((Peak)	1,600W
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
DimensionsW×H×D)	380 × 570 × 380mm
Weight (net)	26,44kg

FICHE SPEAKON NL4
HE-12 and CSB-15K input and link by 4-pole male SPEAKON plug (optional)

CSB-15K: Compact subwoofer - 600W - 8Ω

- CSB-15K is a subwoofer reproducing deep, dynamic and powerful bass, made of premium Nordic 15 ply birch plywood.
- Allowing a bass reinforcement, it incorporates on its upper face a base for the pole stand installation of full-range loudspeaker such as the HE-12.
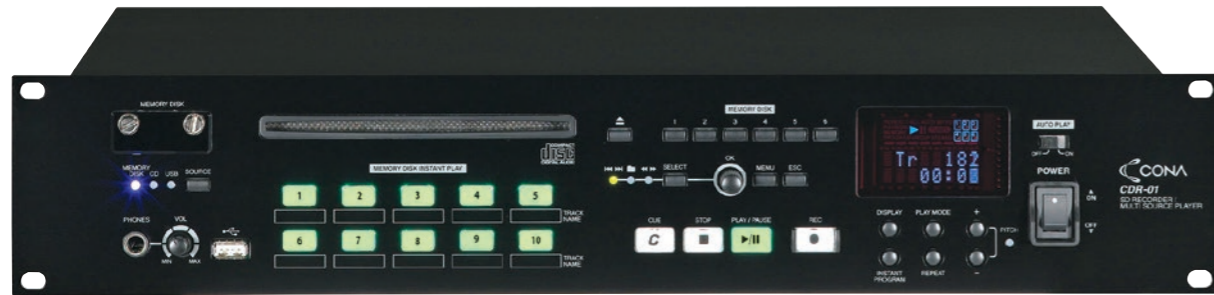
FICHE SPEAKON NL4
HE-12 and CSB-15K input and link by 4-pole male SPEAKON plug (optional)

Model	CSB-15K
Enclosure Material	15 ply birch plywood
Transducer	15''
Nominal Power (W)	600W
Peak power (W)	2,400W
Nominal Impedance	8Ω
Frequency Response	39 to 120Hz
Sensitivity 1 W / 1 m	102dB
SPL max	135.8dB
Directivity	omnidirectional
Connectors	2x SPEAKON NL4
Dimensions (WxHxD)	465 x 505 x 740mm
Weight	32.7kg

CDR-01
CD/SD professional player, MP3/WMA/WAV

• It's a multi player that can store up to 6 audio CDs on one of the 6 virtual memories slots. The tracks of the CD virtually stored can be assigned to one of the 10 keys of reading thus allowing an instant playback.
• It offers a high quality recording and playback on CD, internal memory or SD CARD through high quality

digital-to-analog converters and stages of symmetrical outputs of Broadcast Quality.
• Events and conferences can be registered via the analog XLR input and easily shared.

Model	CDR-01
Discs and formats	CD / CD-R / CD-RW - MP3 / WMA / WAV
Number of channels	3 (left, right, mono)
Bandwidth (pitch off)	20Hz - 20kHz +0.5/-1dB
THD	< 0.003%
Signal / Noise	> 100dB
Max analog outputs level	XLR: +20dBU - RCA: +8dBU
Max analog inputs level	XLR: +20dBU - RCA: + 8dBU
Headphone output	20mW (32Ω)
Output connectors	RCA: L/R - XLR: L/R - MONO
Professional digital output	AES/EBU
Optical output	SPDIF
Coaxial output	SPDIF
Operating temperature	-10°C ~ 40°C
Consumption power	27W
Power source	230V - 50/60Hz
Dimensions (WxHxD)	482 x 88 x 280mm
Weight	5.3kg

Rear panel

CX 2310
2-band stereo active filter

• It's a professional quality active filter.
• It allows to distribute an input signal to adjustable frequency band. The signal can be separated into 2 bands on stereo mode and 3 bands on mono with subwoofer output.
• Its low noise electronic system and its precision potentiometers make it a high quality filter.

Model	CX 2310
Number of outputs	2 bands stereo / 3 bands mono
Input Output	balanced
Linkwitz-Riley Filter	24dB/octave
Level adjustment	on each band
Phase inverter	yes
Mute button	for each band
Low-cut filter	< 25Hz
Power source	240VAC - 50Hz
Consumption power	< 17W
Dimensions (WxHxD)	482 x 44 x 217mm
Weight	3kg

Rear panel

DEQ 2496
4 inputs - 8 outputs Audio processor

• Digital audio processor with a very high resolution 24Bit / 96kHz.

• This device has most used functions in the setting of professional broadcasting.

• Its high quality electronic delivers a pure sound without distortions or noise rendering.

• This device is recommended in facilities streaming amplified music with acoustically difficult environments llike: ice rinks, stadiums…

Model	DEQ 2496
Inputs	2 x XLR balanced
Outputs	2 x XLR balanced
Mic input	1 x XLR balanced
Functions	Equalisation (graphic/ parametric) Compressor/ Expander Limiter Delay Feedback eliminator Display (RMS/ VU meter / SPL…) Real time FFT 31 bands Automatic correction location/speaker 64 memory locations
Converter A/N and N/A	24Bit - 96kHz
Dynamic	113dB
Power source	240VAC - 50Hz, 10W
Dimension (WxHxD)	482 x 44 x 217mm
Weight	3kg

Rear panel

ANTI LARSEN
Feedback eliminator

• 2-channel digital feedback eliminator with a 24 bit conversion.

• Automatically and intelligently locates and destroys up to

20 frequencies per channel.

• Ultra-fast feedback detection (> 0.2 sec) due to proprietary FFT signal analysis.
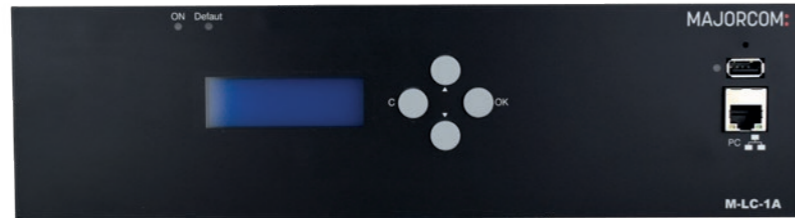
Model	ANTI LARSEN
Inputs	2 XLR symétriques / 2 jack symétriques
Outputs	2 XLR symétriques / 2 jack symétriques
Sampling	24 Bit - 96 kHz
Dynamic range	107 dB
T.H.D	0,007 %
Bandwidth	20 Hz - 20 kHz
Power source	240 V AC, 50 - 60 Hz, 10 W
Dimensions (WxHxD)	44.5 x 482,6 x 190.5 mm (1U)
Weight	1,9 kg

Rear panel

M-LC-1A
1A SPL limiter

NEW

MADE IN **FRANCE**
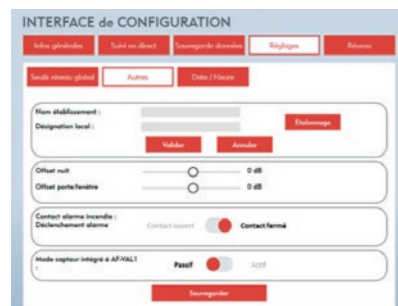
• The LC-1A reduces noise levels in a public place.

• It complies with NF S31-122-1-2017 on the prevention of risks related to amplified noise and sounds.

• All limiter settings are easily controlled via a web interface.

• Door/Window Opening Management, Fire Alarm Management and Beacon Activation (not included).

• Requires a SPL sensor to operate : M-GZ-CAPT1 (not included).

Model	M-LC-1A
Inputs / Outputs	2 dry contacts
Connections	1 plug-in connector, 2 screw terminals, 3 RJ45, 1 USB type A
Mounting	Wall-mounted 4 screws (or DIN rail / 19'' rack : M-LC-1A-KIT-BAIE optional)
Power supply	230V or 48V
Dimensions (W x D x H)	340 x 82,3 x 50 mm
Weight	1,1 kg
Housing material	Sheet metal
Configuration	Via integrated display or web interface
Accessories included	30m Ethernet cable

Web interface

M-LC-1A-KIT-BAIE (optional)
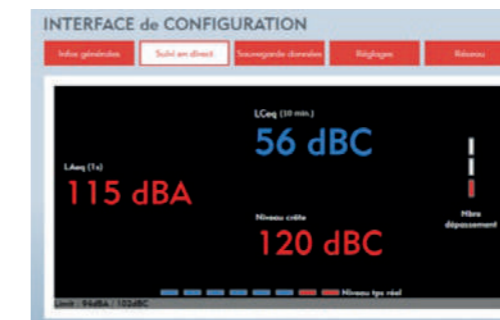M-LC-1A limiter 19" rack installation kit

M-GZ-CAPT1
SPL sensor

NEW

MADE IN **FRANCE**

• The GZ-CAPT1 is a stand-alone SPL sensor.

• It incorporates a digital sensor that measures sound level in dB.

• Its smoke-detector-style design enables it to be installed anywhere, very discreetly.

• A web interface (HMI) enables it to be parameterized, remotely controlled and, for example, visualized in real time.

Model	M-GZ-CAPT1
Display type	MEMS
Input / Output	RJ45 Ethernet
Connections	RJ45
Configuration	Via web interface (IHM)
Mounting	Wall/ceiling with 2 screws
Power supply	PoE (Power over Ethernet)
Dimensions (W x D x H)	Ø 110 x H 50 mm
Weight	0,135 kg
Housing material	ABS

Web interface

M-AF-LED1
LED SPL display

NEW

MADE IN **FRANCE**

• The M-AF-LED1 is a compact SPL display compatible with our M-LC-1A-PACK1 and M-LC-1A-PACK2 to limit the noise level in public places.

• It uses various LEDs to display the sound level

(normal / threshold / cut-off) and the number of electrical cuts made by the limiting system (maximum of 3 short cuts before a long cut).

Model	M-AF-LED1
Display type	LED sound level indicator
Information displayed	Number of interruptions (3 red LEDs) Sound level range (green LED = normal / yellow = threshold reached / red = exceeded)
Inputs	6 controls + 5V power supply
Connections	8-pin screw terminal block
Mounting	Wall-mounted using 4 screws
Power supply	5V DC
Dimensions (W x D x H)	160 x 90 x 50 mm
Weight	0,275 kg
Housing material	Shockproof ABS
Protection index	IP66

M-AF-VAL1
LCD SPL display with integrated sensor

NEW

MADE IN **FRANCE**

• The M-AF-VAL1 is a stand-alone SPL indicator.

• Its 12' LCD screen ensures good readability in any environment.

• It incorporates a digital sensor to measure the sound level directly without an external sensor.

• A web interface is also integrated, enabling the product to be remotely controlled, parameterized and the sound level to be visualized in real time on a computer.

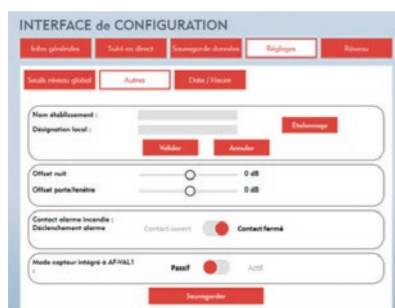| Model	M-AF-VAL1
Display type	MEMS
Information displayed	Short LAeq, Long LAeq, LpcC, bargraph, 3 off LEDs
Inputs / Outputs	RJ45 Ethernet
Connections	RJ45, Power Jack
Mounting	Wall-mounted or base-mounted with 4 screws
Power supply	PoE (Power over Ethernet) or 24V DC
Dimensions (W x D x H)	332 x 161 x 40,5 mm
Weight	0,710 kg
Housing material	Polystyrene
Configuration	Via built-in display or web interface
Included accessories	30m Ethernet cable

M-LC-1A-PACK1
1A SPL limiter system package (<300 person gauge)

NEW

MADE IN FRANCE

• The M-LC-1A-PACK1 is a set of products to limit the noise level in a public place.
• It complies with NF S31-122-1-2017 on the prevention of risks related to amplified noise and sounds.
• This system is ideal for venues accommodating less than 300 people, where there is no obligation to display sound levels to the public.

• Its remote sensor is very discreet thanks to its smoke detector type design.
• All limiter settings are easily controlled via a web interface.
• Door/Window Opening Management, Fire Alarm Management and Beacon Activation (not included).

Web interface

M-LC-1A-KIT-BAIE (optional)
M-LC-1A limiter 19" rack installation kit

M-LC-1A-PACK2
1A SPL limiter system package (>300 person gauge)

NEW

MADE IN FRANCE

• The M-LC-1A-PACK2 is a set of products to limit the noise level in a public place.
• It complies with NF S31-122-1-2017 on the prevention of risks related to amplified noise and sounds.
• This system is ideal for venues accommodating more than 300 people and being normatively in the obligation to display the noise level.
• Its remote LCD display measures and indicates regulatory sound levels and also incorporates a measurement sensor.
• Its 12' LCD screen ensures good readability in any environment.
• All limiter settings are easily controlled via a web interface.

• Door/Window Opening Management, Fire Alarm Management and Beacon Activation (not included).

M-LC-1A-KIT-BAIE (optional)
M-LC-1A limiter 19" rack installation kit

WHAT DOES FRENCH LAW SAY ?

Limiting noise levels aims to protect the public's hearing and the peace and quiet of local residents.

It is defined by Article R1336-6 of the Public Health Code, since updated by Decree 2017-1244 of August 7, 2017.

It applies to « all premises and establishments receiving the public and broadcasting amplified music on a regular basis ».

In concrete terms, this legislation concerns discotheques, bars, dance restaurants, hotels, karaoke bars, concert halls, party halls, reception halls for weddings and birthdays, etc.... In addition, the new law also extends to outdoor shows and festivals.

To apply this limitation of decibels, defined in advance by a noise impact study, the law introduces an **obligation to display and record sound levels**. It only applies to establishments with a capacity of **at least 300 people and to discotheques**, the **M-LC-1A-PACK2** meets this standard.

DSA-500Q: 300W / 8Ω - 500W/4Ω - 1000W/8Ω bridged amp with DANTE™ network and DSP incorporated
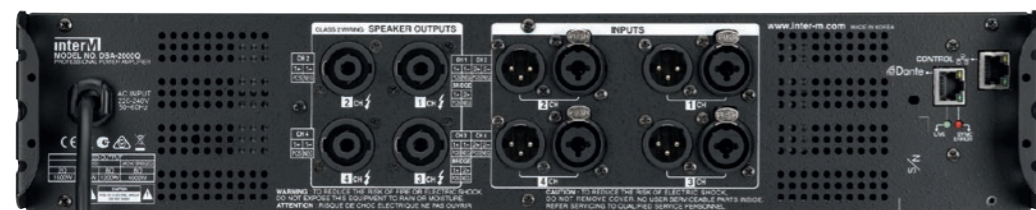
DSA-2000Q: 1200W / 8Ω - 2000W/4Ω - 4000W/8Ω bridged amp with DANTE™ network and DSP incorporated

L-1800: 2 x 360W - 8Ω / 2 x 600W - 4Ω amplifier

L-2400: 2 x 500W - 8Ω / 2 x 750W - 4Ω amplifier

You can easily configure the DSA-500Q and DSA-2000Q and DSP remotely via PC

L-1800

• High quality low impedance amplifier which can deliver a power of 2x 650W under 4Ω and can be bridged to obtain 1800W under 4Ω.

L-2400

• High quality low impedance amplifier which can deliver a power of 2x 750W under 4Ω and can be bridged to obtain 2400W under 4Ω.

They are equipped with:
• a protective circuit against overloads and short circuits
• a high-pass active filter to protect speakers from very low frequencies < 50Hz or < 30Hz to be selected
• an input limiter that can be activated with a switch
• a display of modulation by LED (protection, saturation, modulations).

• DSA-500Q & DSA-2000Q are 4-CH high power and high quality professional amplifiers which incorporate a DSP, Digital Signal Processor and Audinates's Dante™ digital audio network.

• DANTE™ delivers low latency, robust synchronization, I/O sca-lability, and installation simplicity via standard IT technology.

• Easy control of equipment through front panel with OLED and PC GUI.

• Simultaneous control of multiple amplifiers via PC GUI.

• Up to 340ms delay time adjus-table.

• Unlimited preset creation for environment-optimization.

Model		DSA-500Q	DSA-2000Q
Rated Power -20ms burst (Static)	8Ω, Stereo Mode	300W	1200W
	4Ω, Stereo Mode	500W	2,000W (900W)
	2Ω, Stereo Mode	800W (400W)	2,000W (450W)
	8Ω, Mono Mode Bridged	1,000W	4,000W (1800W)
	4Ω, Mono Mode Bridged	1,600W (800W)	4,000W (900W)
Input Sensitivity		+4dBu	+10dBu
Gain (Stereo, Mono)		32dB	
Gain (Bridged)		38dB	
S/N		> 92dB	
THD (1/3W Rated power)		< 0.5%	< 0,7%
Bandwidth ((1W, 0±2dB / 8Ω)		20Hz to 20,000Hz	
DSP Precision		32bit Fixed Point(8.24 format)	
A/D, D/A		24bit conversion, sampling rate: 48kHz	
DSP Function		Input gain, Parametric EQ, HPF, LPF, Limiter, Delay	
Consumption		390W (1/8 rated power @ 2Ω)	700W (1/8 rated power @ 2Ω))
Power source		AC 220-240V, 50/60Hz	
Operating Temperature/Humidity		-10˚C~+40˚C/ 0%~90%	
Dimensions (WxHxD)		482 × 88 × 420mm	
Weight		10,48kg	11,79kg

Model	L-1800	L-2400
Power	2 x 360W RMS under 8Ω 2 x 600W RMS under 4Ω 1,200W RMS bridged under 8Ω 1,800W RMS bridged under 4Ω	2 x 500W RMS under 8Ω 2 x 750W RMS under 4Ω 1,500W RMS bridged under 8Ω 2,400W RMS bridged under 4Ω
Bandwidth	20Hz - 20kHz ±1dB 5Hz - 70kHz ±3dB	
T.H.D	< 0.03%	
Channel separation	> 80dB	
Residual noise	< -85dB	
Signal / Noise	> 100dB	
Input sensitivity	3.5dBu	
Output circuit	Class-H	
Protection	Thermal, short circuit	
Power source	220V - 4A	220V - 4.5A - 50Hz
Dimensions (WxHxD)	482 x 88 x 369mm	
Weight	15kg	

Rear panel

FICHE SPEAKON NL4

Input and link by 4-pole male SPEAKON plug (optional)

Rear panel

FICHE SPEAKON NL4

Input and link by 4-pole male SPEAKON plug (optional)

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.

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MAJORCOM:

Custom-designed sound systems by a
**highly involved Design Office, R&D,
Customer Service and Support Functions.**

www.majorcom.fr

PRODUCTS   **SOLUTIONS**   **SERVICES**   **SUPPORT**