

MP Series

New generation of amplifiers



USER MANUAL

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CE
CE CERTIFICATION, EUROPEAN PRODUCT

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WELCOME

We are pleased to present the new MP series. High-efficiency, Class D Amplifiers.

Before using the amplifier, we recommend that you read this manual carefully. Inside, you will find detailed operating instructions, programming examples, and practical advice to help you achieve optimal results.

The MP Series is a highly valuable professional tool, offering users market-leading performance, exceptional precision, and a wide range of features designed for professional applications.

We are confident that the MP amplifier will meet your expectations and enhance your ability to get the most out of your system. We trust you will be completely satisfied as a user.

IMPORTANT SAFETY INSTRUCTIONS

The CE mark on the **MP** amplifier shows that it is verified and tested to comply with the European Norms and International regulations regarding Electromagnetic Compatibility and Electrical Safety.



Radiated Emissions : EN55013-1 (1996)
RF Immunity: EN55103-2 (1996)
Electrical Safety: EN60065 (1993)
IEC65 (1985) and emendation 1, 2 and 3

This product also meets the specifications of the following safety directives:

Low Voltage Directive 73/23/EEC
EMC Directive 89/336/EEC

Product Developed in Spain and Manufactured in PRC.



CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN



The symbols shown above are internationally accepted symbols that warn of potential hazards with electrical products. The lightning flash with arrowpoint in an equilateral triangle means that there are dangerous voltages present within the unit. The exclamation point in an equilateral triangle indicates that is necessary for the user to refer to the owner's manual.

Warning :

Do not expose the amplifier to humidity and dust.
Do not take off the top cover.
To avoid electrical shock do not handle internal elements.
Use only power cords in good condition.

Power/ power cable

- Only use the rated voltage specified for this equipment. The required voltage is indicated on the device nameplate.
- Do not place the power cable near heat sources such as heaters or radiators. Avoid excessive bending, crushing, or damage to the power cord, and do not place heavy objects on it. Ensure it is not positioned where it could be stepped on or otherwise damaged.
- Always connect the unit to a properly grounded power outlet. Improper grounding may result in electric shock.

Do not disassemble

- Do not disassemble or modify this product. This device does not contain any user-serviceable parts. Failure to do so may result in fire, electric shock, or malfunction. If you find any improper operation, please stop using it immediately and have the qualified technicians perform maintenance and repair.

Connection

- Turn off the power switches of all devices before connecting the device to other devices. Turn all volume to a minimum before switching the power switch on or off for all devices.
- Only use speaker cables when connecting loudspeakers to the speaker outputs. Using other types of cables may result in fire or damage.
- Do not place the device in locations where it may be exposed to corrosive gases or salty air. Failure to do so may result in malfunction of the equipment.

Operating Carefully

- When powering on the audio system, turn on this unit last to prevent potential damage to the amplifier.
- Condensation may occur inside the unit due to rapid or drastic changes in ambient temperature. Do not operate the unit until all moisture has completely evaporated.
- Do not insert fingers, hands, or any objects into openings or gaps in the unit.

Unpacking the MP

Before unpacking your new amplifier, verify that the box does not show any damage or deformation. If this happens, please claim the damage to your forwarder. Once unpacked and verified its correct operation, keep the original box in case you need to ship it back to your provider.

Placement position

- Be sure to unplug all the connected cables before moving the amplifier.
- When setting up the device, make sure that the AC outlet you are using is within easy reach. If a problem or malfunction occurs, disconnect the power switch immediately and unplug it from the power outlet. Even if the power switch is turned off, there is minimal current to the product. When you are not using the product for a long time, be sure to unplug the power cord from the AC outlet.
- To prevent deformation of the control panel or damage to internal components, do not place the amplifier in environments with excessive dust, vibration, or extreme temperatures (such as in direct sunlight, near heaters, or inside a car under intense sun).
- Do not place the amplifier on an unstable surface, as it may fall unexpectedly and cause injury or damage.
- Do not block the ventilation holes. This unit has ventilation holes on the front/back to prevent excessive temperature inside the unit. Special care should be taken not to put the amplifier sideways or upside down. Poor ventilation can cause overheating and can damage equipment or even cause a fire.
- Do not use the amplifier near televisions, radios, stereos, mobile phones, or the other electronic devices. This can cause noise in the device itself as well as in the TV or radio near the device.
- If you install the device in an EIA standard bay, read "Precautions when installing the device with a bracket". Poor ventilation can cause overheating and can damage equipment, cause malfunctions, and even cause a fire.

Precautions when installing the device

- This unit can operate normally within the ambient temperature range of 0-40°C. If you only install the device in a EIA standard bay, you can install multiple devices without leaving space between the devices. If this unit is installed in a EIA standard bay together with other types of equipment, the heat generated by other equipment may cause the internal temperature of the rack to rise, resulting in the unit not working properly.
- The terminal marked with the symbol "  " indicates a potential hazard. External wiring connected to these terminals must be installed by a qualified electrician, or the warning may indicate that a pre-made lead or flexible cord should be used.

1.- INTRODUCTION

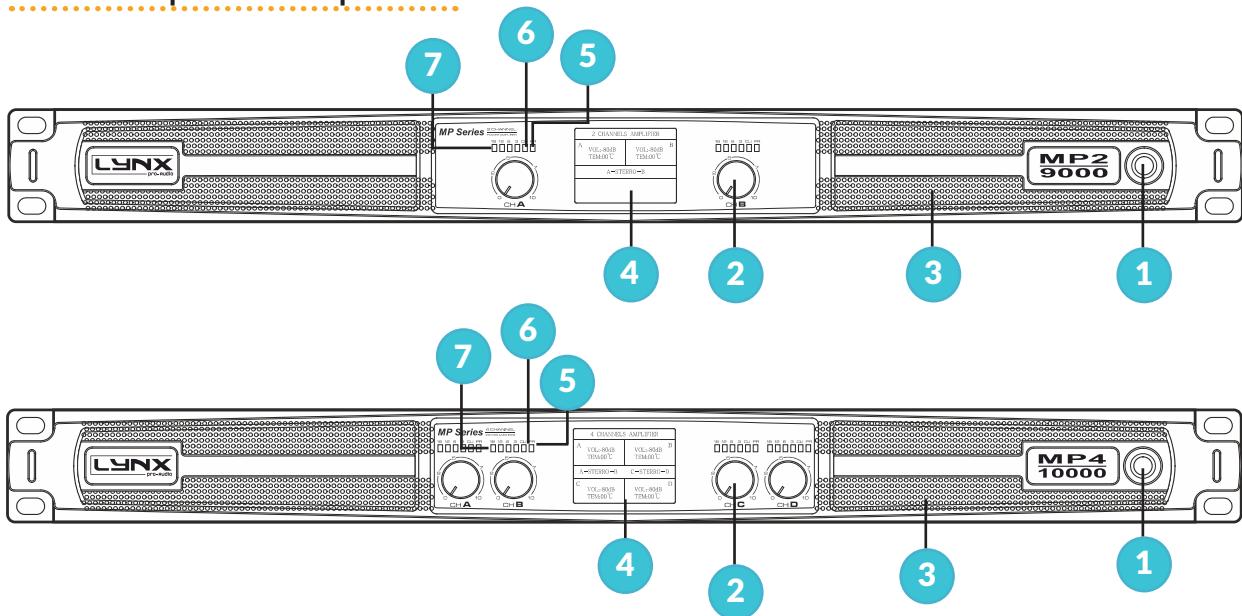
The MP series incorporates the second generation of high-efficiency Class D circuits. This series include a two-channel amplifier (MP2-9000) and a four-channel amplifier (MP4-10000), offering a wide power range and flexibility to match various speaker systems.

It features a 2.4-inch display that allows real-time monitoring of the amplifier's status. The optimised design ensures a higher signal-to-noise ratio, meeting the requirements of high-standard projects.

Additionally, it includes multiple protection systems against distortion of less than 0.5%, short circuits, voltage extremes, overload, overheating, and DC, ensuring natural and reliable sound.

2. CONTROLLER AND FUNCTIONS

MP frontal panel description



01. POWER BUTTON

Used to switch the amplifier on or off.

02. VOLUME KNOB

Adjust the volume between -80dB and 0dB.

KNOB **SCREEN**

0 = -80dB
10 = 0dB

03. AIR INLET

Air inlet of the cooling fan. Make sure not to block the air inlet.

04. LCD DISPLAY

Displays the output level and operating temperature.

WARNING

To prevent the loudspeaker from producing excessive noise, power on the source devices first, followed by the mixer and processor, and finally the amplifier. When shutting down the system, switch off the devices in the reverse order.

LED light status indication

This indicator lights up when the power is turned on.

05. "PROTECT" Indicator

Red LEDs, one per channel, illuminate when a cooling system fault is detected or when a short circuit occurs.

07. "SIGNAL" Indicator

Green LEDs, one per channel, illuminate when an input signal is present.

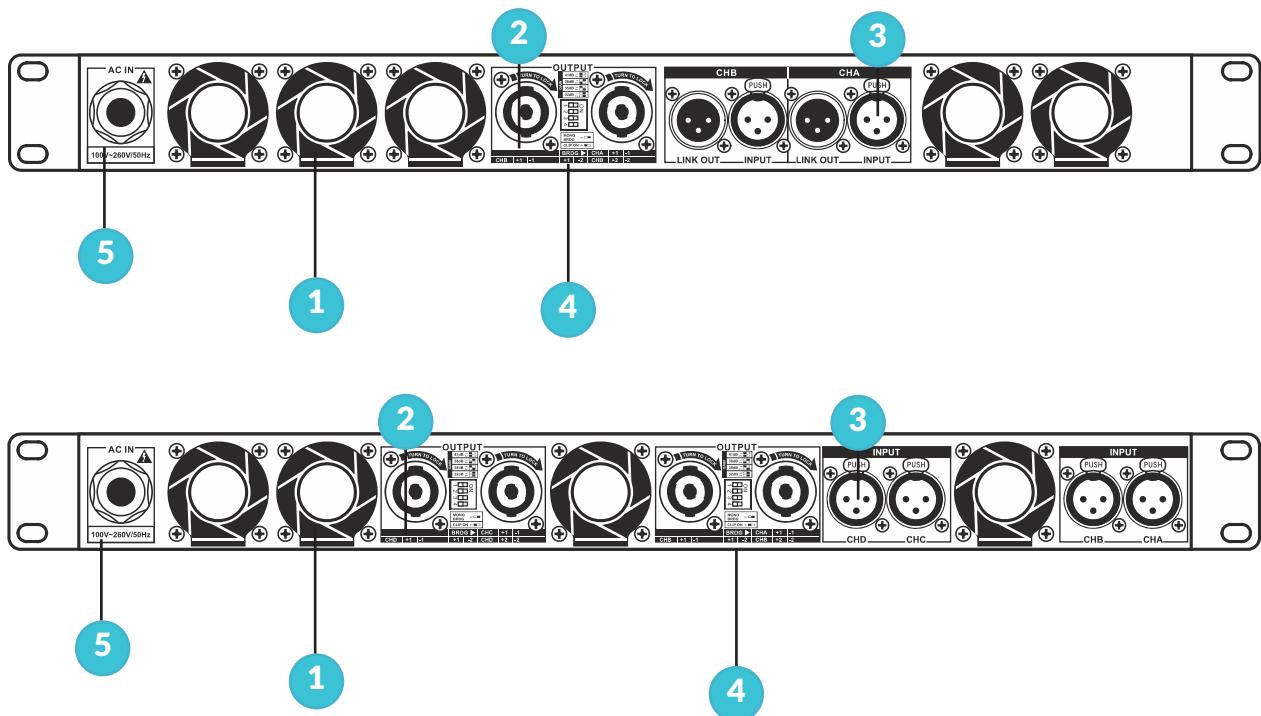
06. "CLIP" Indicator

Yellow LEDs, one per channel, illuminate when the output of the corresponding channel is being overdriven.

NOTICE

After the unit has been in operation, switching off the power may cause the CLIP indicators to remain illuminated for a few seconds before gradually turning off. This is normal and occurs due to the discharge of the internal electrolytic capacitors. Under no circumstances should the unit be opened. Do not remove the cover or touch internal components, as this may result in electric shock or personal injury.

MP back panel description



01. FAN

Fan outlet. Airflow is directed from front to rear for heat dissipation. Ensure that the air inlet and outlet are not obstructed.

02. AUDIO OUTPUT A/B/C/D INTERFACE

Speakon output connectors are provided for Channels A, B, C, and D to connect loudspeakers.



↳ Speakon Output

NOTICE

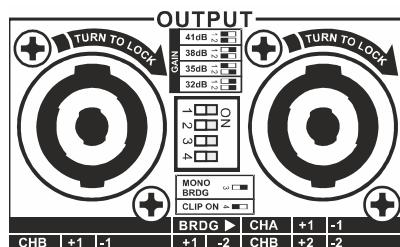
Do not touch the connector or the exposed metal parts of any cable connected to the output ports. If multiple loudspeakers are connected to the same channel, a parallel connection will be formed; ensure that the total load impedance of the connected loudspeakers does not fall below the minimum specified value. Take care to avoid accidental contact or incorrect connections.

Speakon output configuration:

1. Channel A (CHA): The output signal of Channel A is routed through the +1 and -1 poles of the Speakon connector. This channel operates independently and is suitable for two-way or bi-amplified system configurations.

2. Channel B (CHB): The output signal of Channel B is routed through the +2 and -2 poles of the same Speakon connector used for Channel A, allowing both CHA and CHB signals to be transmitted via a single four-pole Speakon cable from Output A. In addition, Channel B is also available on the +1 and -1 poles of its dedicated Speakon connector, which is advantageous for multi-way system configurations.

3. Bridge Mode: In Bridge Mode, both channels are combined to deliver increased output power, using the +1 and -2 poles of the Output A Speakon connector. This configuration doubles the output voltage and is suitable for high-power applications and low-impedance loads, such as subwoofers. Ensure that the connected load is rated to handle the increased power to prevent equipment damage.



NOTICE

Always check speaker polarity and load capacity in high-demand configurations to maintain system integrity.

03. AUDIO INPUT A/ B/ C/ D INTERFACE

XLR 3- pin audio input interface (INPUT' A&B&C&D)

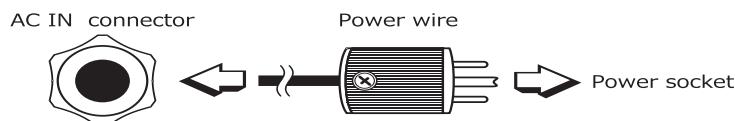
04. INPUT SENSITIVITY | WORKING MODE | LIMITER

41dB/38dB/35dB/32dB | STEREO/ BRIDGE/ PARALLEL | CLIP ON/OFF

Input Sensitivity				Working Mode		CLIP ON
41dB	38dB	35dB	32dB	STEREO	PAR/BRDG	
→ <input checked="" type="checkbox"/> Z <input checked="" type="checkbox"/>	→ <input checked="" type="checkbox"/>	→ <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			

05. AC IN Connector

Connect the power wire to the power socket



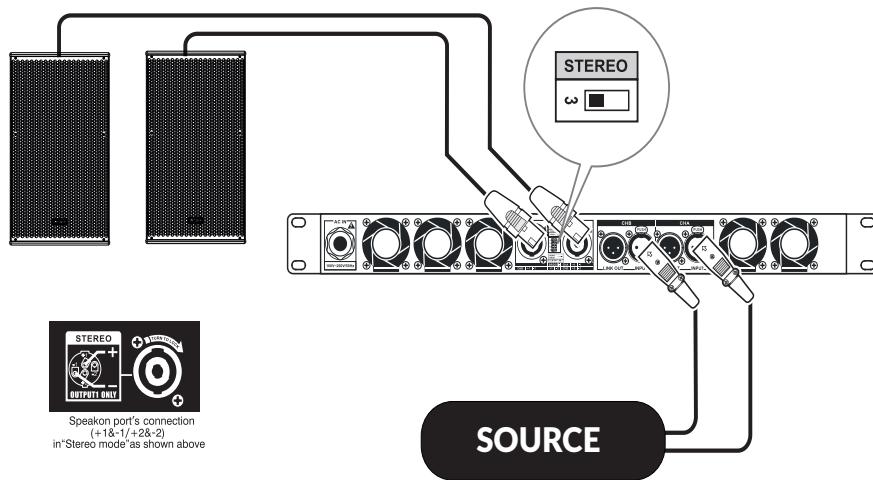
3. APPLICATIONS

2CH power amplifier mode installation

STEREO MODE

This mode is the factory default setting.

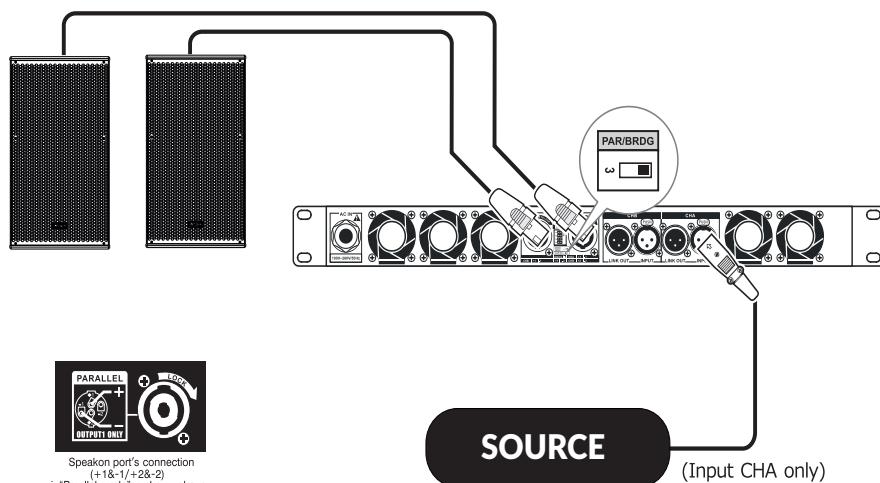
1. Confirm that Stereo Mode is selected, as indicated by "STEREO" on the display.
2. Connect the signal input using the XLR connectors, as shown.
3. Connect the speakers using Speakon connectors, following the wiring configuration shown below.



Note: Please read the instruction carefully and follow the corresponding instructions before you operate the power amplifier, thank you.

PARALLEL MODE

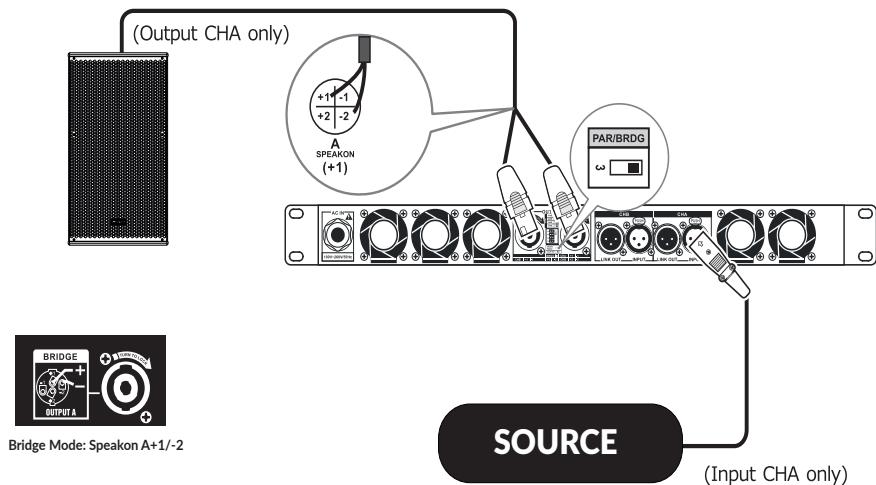
1. Confirm that Parallel Mode is selected, as indicated by "PARALLEL" on the display.
2. Connect the signal input using the XLR connectors, as shown.
3. Connect the speakers using Speakon connectors, following the wiring configuration shown below.



BRIDGE MODE

This mode provides higher output power by combining a single channel, delivering twice the power of standard single-channel operation. It should be used according to the actual application requirements.

1. Confirm that the amplifier is set to Bridge mode, as indicated by "BRIDGE".
2. Connect the speakers using the Speakon connector before powering on. Please note that the internal wiring of the Speakon connector is different from that used in Stereo or Parallel modes. (Poles +1/-2 of Speakon A).



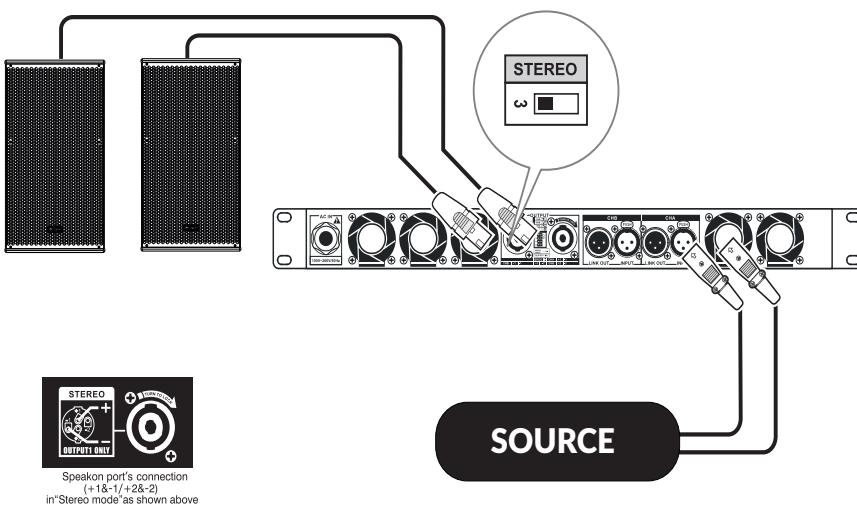
⚠ Note: Please read the instruction carefully and follow the corresponding instructions before you operate the power amplifier, thank you.

4CH power amplifier mode installation

STEREO MODE

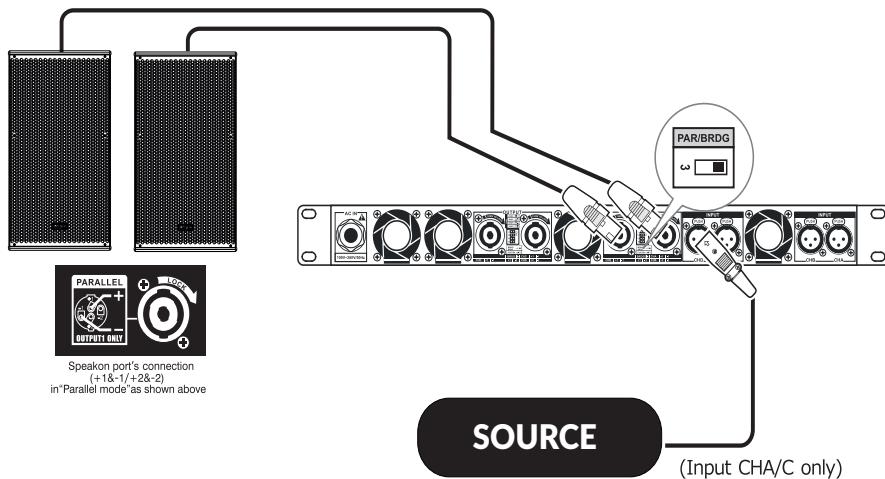
This mode is the factory default setting.

1. Confirm that Stereo Mode is selected, as indicated by "STEREO" on the display.
2. Connect the signal input using the XLR connectors, as shown.
3. Connect the speakers using Speakon connectors, following the wiring configuration shown below.



PARALLEL MODE

1. Confirm that Parallel Mode is selected, as indicated by "PARALLEL" on the display.
2. Connect the signal input using the XLR connectors, as shown.
3. Connect the speakers using Speakon connectors, following the wiring configuration shown below.

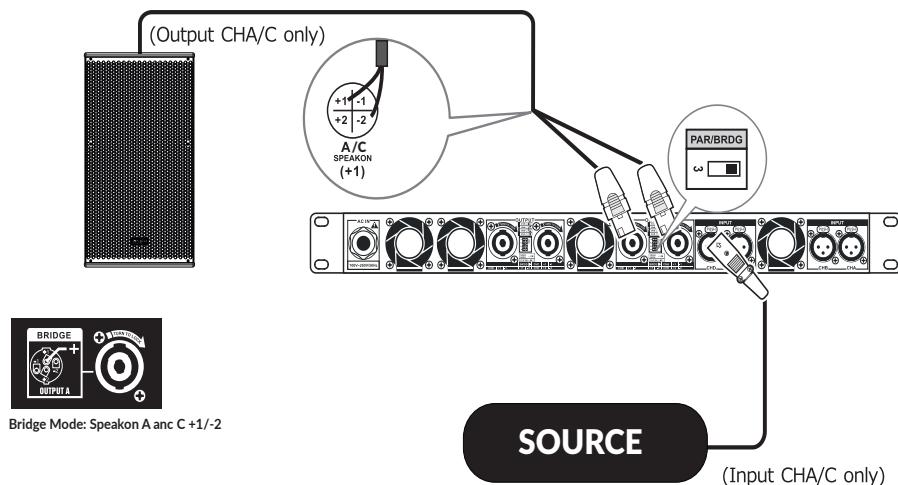


⚠ Note: Please read the instruction carefully and follow the corresponding instructions before you operate the power amplifier, thank you.

BRIDGE MODE

This mode is the factory default setting.

1. Confirm that Bridge Mode is selected, as indicated by "BRIDGE" on the display.
2. Connect the signal input using the XLR connectors, as shown.
3. Connect the speakers using Speakon connectors, following the wiring configuration shown below. (Poles +1/-2 of Speakon A/C).



4. TECHNICAL SPECIFICATIONS

	MP2-9000	MP4-10000
Output Power		
@ 2 Ohms	2 x 4500 W	4 x 2500 W
@ 4 Ohms	2 x 4500 W	4 x 2500 W
@ 8 Ohms	2 x 3000 W	4 x 1500 W
Bridge @ 4 Ohms	1 x 9000 W	2 x 5000 W
Bridge @ 8 Ohms	1 x 6000 W	2 x 3000 W
Frequency Range		
+/- 1 dB @ 8 Ohm	20 Hz - 20 KHz	
Total harmonic distortion		
@ 8Ω 1KHz	<0.5%	
Crosstalk		
20 Hz - 1 KHz	>70 dB	
Signal to Noise Ratio		
20Hz-20Khz	>110 dBA	
Gain		
	32 dB to 41 dB	
Input Impedance		
	20KΩ	
Damping factor		
	>5000	
Required AC Mains Operating Voltage		
50Hz-60Hz	100V -260V AC	
Rated Power Comp.		
230V, @4 Ohm	2500 W	2000 W
Dimensions		
W x H x D (mm)	483 x 482 x 45	483 x 482 x 45
Weight		
	13,2 Kg / 29,10 lbs	
Protections		
	Short-circuit, Auto limit, Over load, AC/DC protection	

LYNX PRO AUDIO GUARANTEE

Lynx Pro Audio products are guaranteed against every kind of manufacturing fault 2 year after the date of sale. When products are under guarantee, the repairing and the free supplying of the device parts in order to correct any kind of defect are guaranteed by Lynx Pro Audio S.L. In the case that the product could not be returned to the factory for checking and repairing, Lynx Pro Audio S.L. would supply all the necessary parts.

Lynx Pro Audio S.L. is not responsible for any damage or defect caused during the transport or caused by any or improper handling by a non-authorized person during the life of this guarantee.

All our products go through rigorous testing and quality controls. We guarantee the characteristics described here within and their quality against any fabrication defect.

For any question regarding the product, the user must quote the model and serial number.

WEEE Declaration: Electrical and electronic equipment must be disposed of separately from normal waste at the end of its operational lifetime. Please dispose of this product according to the respective national regulations or contractual agreements. If there are any further questions concerning the disposal of this product please contact Lynx Pro Audio S.L.



DECLARATION OF CONFORMITY

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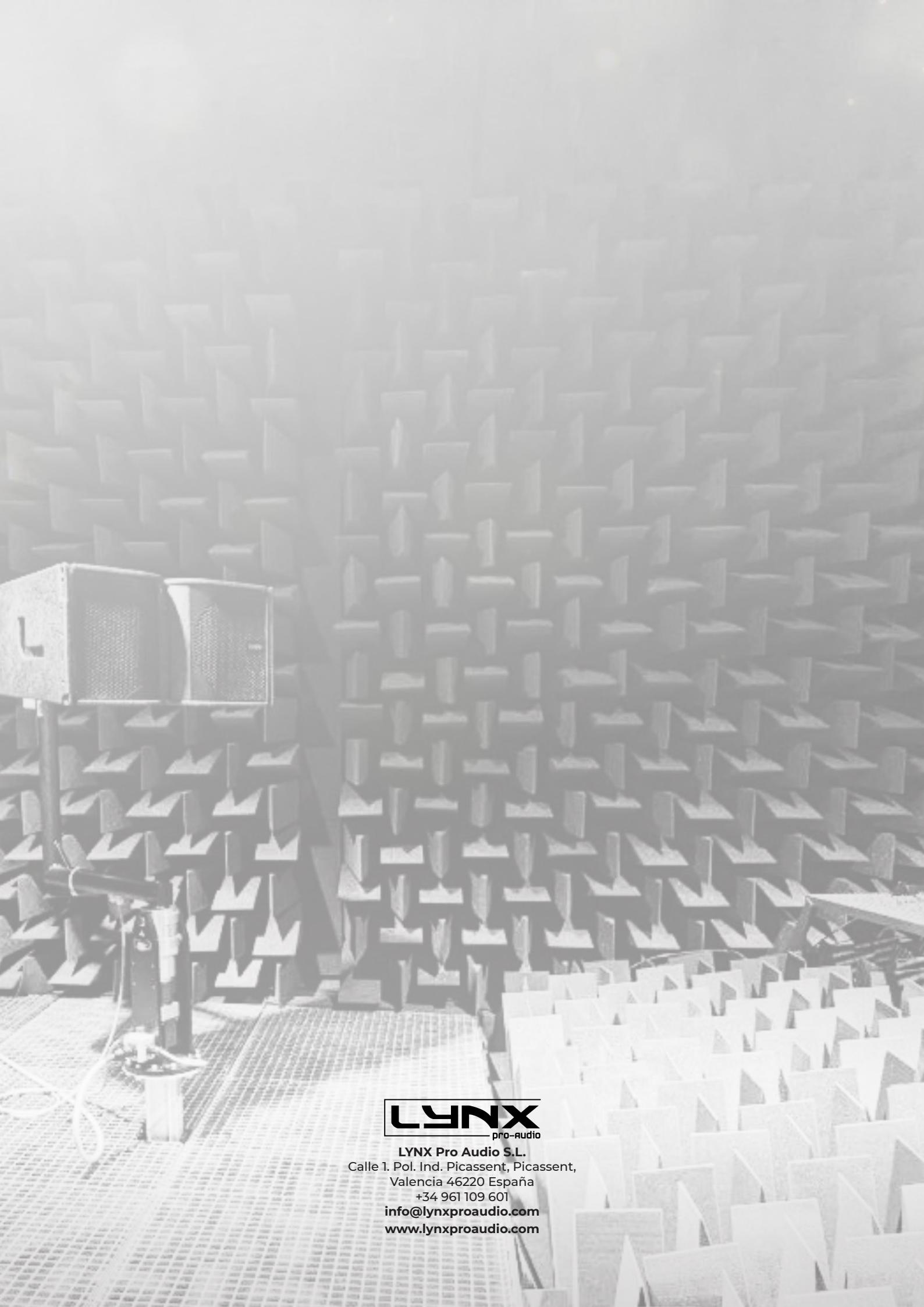
Lynx Pro Audio S.L. declares that MP series are in conformity with the following EC directives:

Low Voltage Directive	2014/35/UE
Electromagnetic Compatibility EMC	2014/30/UE
RoHS Directive	2011/65/UE
RAEE (WEEE)	2012/19/UE

In accordance with Harmonized European Norms:

EN 60065:2014	Audio, video and similar electronic apparatus. Safety requirements
EN 60065:2002	Audio, video and similar electronic apparatus. Safety requirements
EN 55103-1:1996	Electromagnetic compatibility. Product family standard for audio, video, audiovisual and entertainment lighting control apparatus for professional use. Part 1: Emission.
EN 55103-2:1996	Electromagnetic compatibility. Product family standard for audio, video, audiovisual and entertainment lighting control apparatus for professional use. Part 2: Immunity.





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