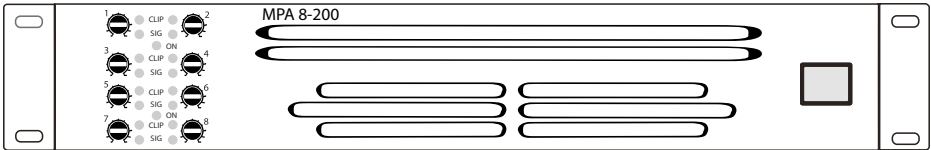


MPA8200

Professional Power Amplifier

User Manual



active
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L'acoustique active

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1. Warranty

Active Audio guarantees, that every new product purchased at an authorized distributor is free of assembly and material defects.

During the guarantee, the purchaser is entitled to repairs free of charge in cases involving assembly defects.

Defects reported during the time of the guarantee will be repaired by an authorized dealer free of charge within 21 days from the date that the equipment is delivered for repair - the time of repair may be extended if the job requires parts to be acquired from another country.

The guarantee is extended by the time it takes to complete reparations of the product.

Under the guarantee, those repairs for which instructions are given in the manual will not be cover, and are the sole responsibility of the owner's time and cost. For example, the installation of equipment, the testing, maintenance (especially the cleaning of the filter), and interchanging the fuses. All of the aforementioned repairs can be made by the dealer at the customer's own cost.

Guarantee does not cover:

- Mechanical, chemical, and thermal damages inflicted on the equipment.
- Damages and defects caused by wrongful installation, usage, storage, and maintenance.
- Damages caused by repairs and changes to the equipment made by the customer or other unauthorized persons.

The owner provides damaged equipment for repairs or sale at his or her time and cost, preferably in the original package. If the original package is missing, the risk of product damage is higher and the owner assumes all financial losses.

2. Safety tips

2.1. Equipment Setup

Avoid setting up the equipment areas:

- subject to direct sunlight
- exposed to high temperatures
- exposed to moisture
- subject to high vibrations
- on an uneven surface

Non compliance can lead to damaging the outside frame and/ or other parts - which could shorten the allotted time of operation.

2.2. Ventilation

Install the equipment in the area with proper ventilation - with a distance of at least 10cm from the rear of the device to the wall. Remember that objects such as curtains should not cover the ventilation openings.



PLACING OBJECTS ON TOP OF THE AMPLIFIER

Do not place heavy object on top of the amplifier or on the electrical cord.

Such actions could cause the top plate to be permanently deformed or the electrical cord to be severed.

2.3. Voltage

The equipment cannot be plugged into a DC socket. Make sure the parameters of the socket are known.

2.4. Electrical cord

When inserting the electrical cord into the socket, hold the plug firmly and make sure it is properly placed into the socket. Never attempt to touch the socket with moist hands.

Avoid cutting, scratching, over bending, stretching, and folding the electrical cord. Such actions could cause a fire or electrical shock.

When unplugging the cord do not pull the wire because an electrical shock could result.

2.5. Foreign objects

- Do not allow objects such as needles, coins, screws, etc to accidentally fall into the equipment through the ventilation openings. The result could be serious damage to the amplifier and electrical shock.
- At no time should water or any other liquid to be spilled on or into the equipment due to the high risk of fire or shock.
- Avoid using any aerosol sprays around the equipment.

2.6. Service

Never try to take apart, fix or repair the equipment. If problems arise at time of operation (interrupted sound, signals do not light up, traces of smoke arise, etc.) Immediately turn off the amplifier and contact an authorized dealer. If the equipment will not be used for an extended period of time , unplugged the amplifier from the outlet.

2.7. Maintenance

Clean the frame, the main frame, and the regulator with a soft moist towel, lightly covered with a gentle detergent. Do not use any abrasive materials or detergents.

Do not use any solvent such as alcohol or gasoline.

3. Front panel

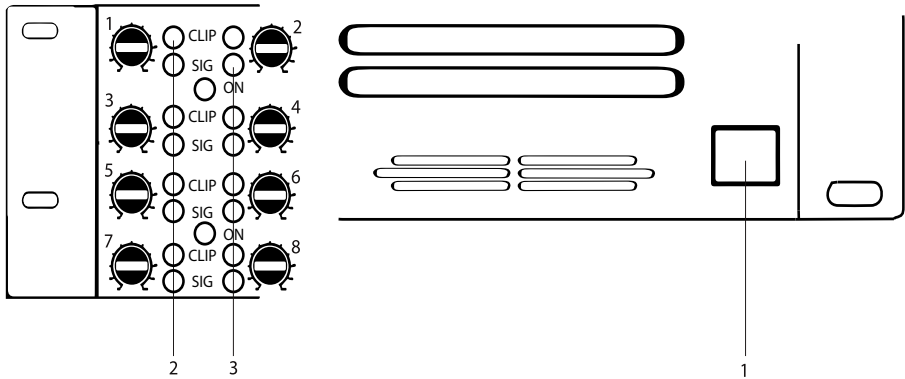


Figure 1 : MPA8200 Front Panel

1 POWER switch

2,3 Indication directing amplifier CLIP/SIGNAL (CH1 - CH8)

- signal lights up green: showing present signal of output
- signal lights up red: informs the user that the entering signal is too large

4. Rear panel

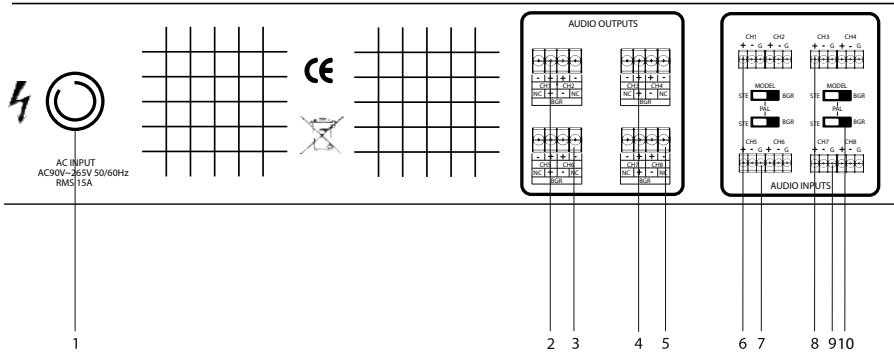
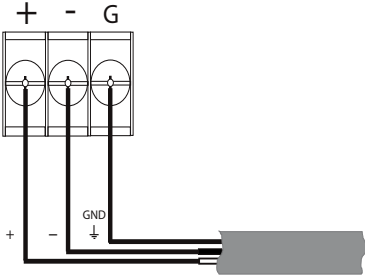


Figure 2 : MPA8200 Rear Panel

1. AC Power Line IN
2. OUTPUT (CH1, CH2, BRIDGE)
3. OUTPUT (CH5, CH6, BRIDGE)
4. OUTPUT (CH3, CH4, BRIDGE)
5. OUTPUT (CH7, CH8, BRIDGE)
6. INPUT connector (CH1, CH2)
7. INPUT connector (CH5, CH6)
8. INPUT connector (CH3, CH4)
9. INPUT connector (CH7, CH8)
10. Operation mode switch (STEREO, BRIDGE)

4.1. Input connectors

BALANCED



UNBALANCED

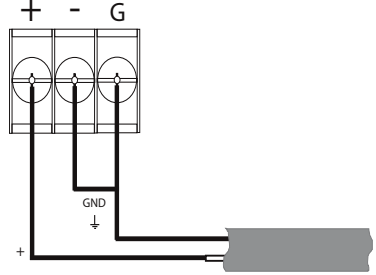
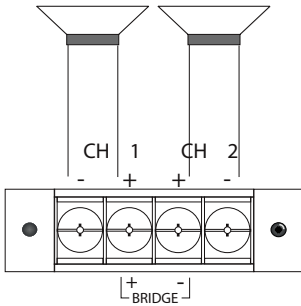


Figure 3 : Input connectors

4.2. Output connectors

STEREO



BRIDGE

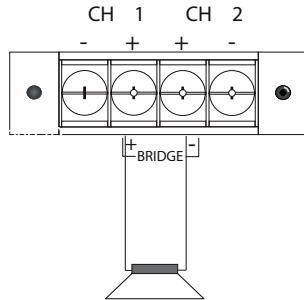


Figure 4 : Output connectors

4.3. Source switches

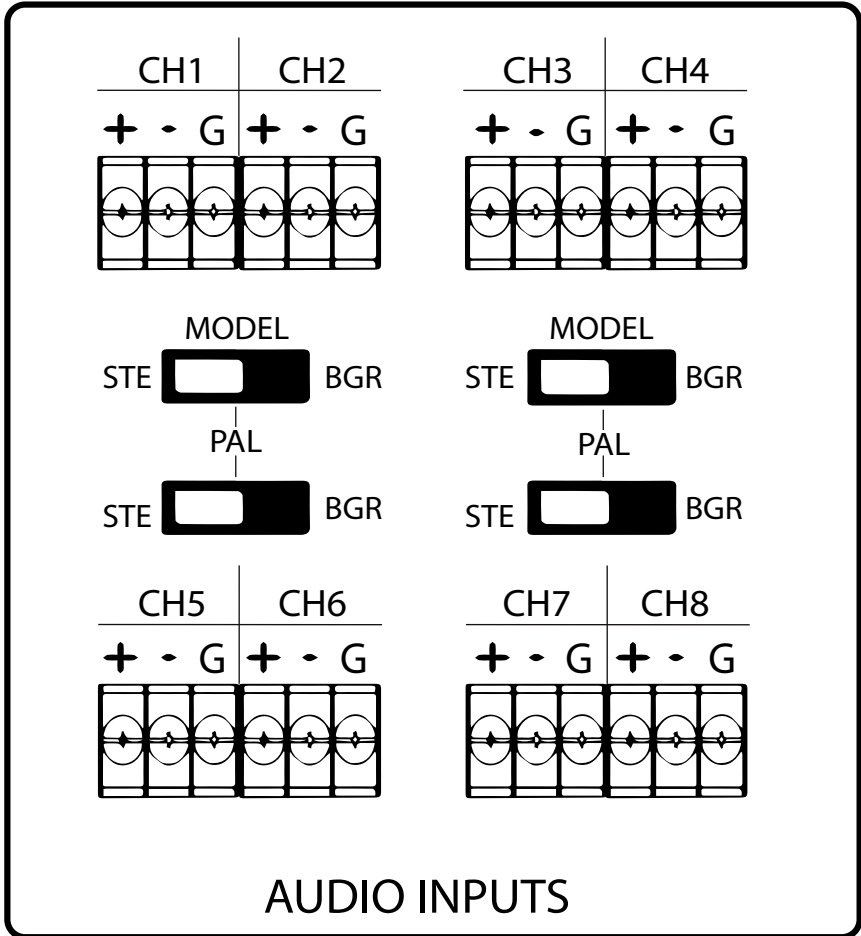


Figure 5 : Source switches

5. Multichannel power amplifier MPA8200

Eight independent amplifier channels and four bridging switches provide max.

Configuration flexibility.

Separate gain controls on the back panel allow convenient level balancing of all channels.

It features high quality 200W RMS amplifiers per zone.

- height independent channels
- bridge operation available
- phoenix input connector
- phoenix output connector
- separate gain controlers
- source switch parallel operation mode
- silent switching on and of loading
- variable speed fan
- mosfet output transistors
- toroidal transformer inside
- protection system (output current reduction at low impedance, short circuit , over temp protection)
- clip indicator for each channel
- protect/ready indicator for each pair channels

6. Sample applications

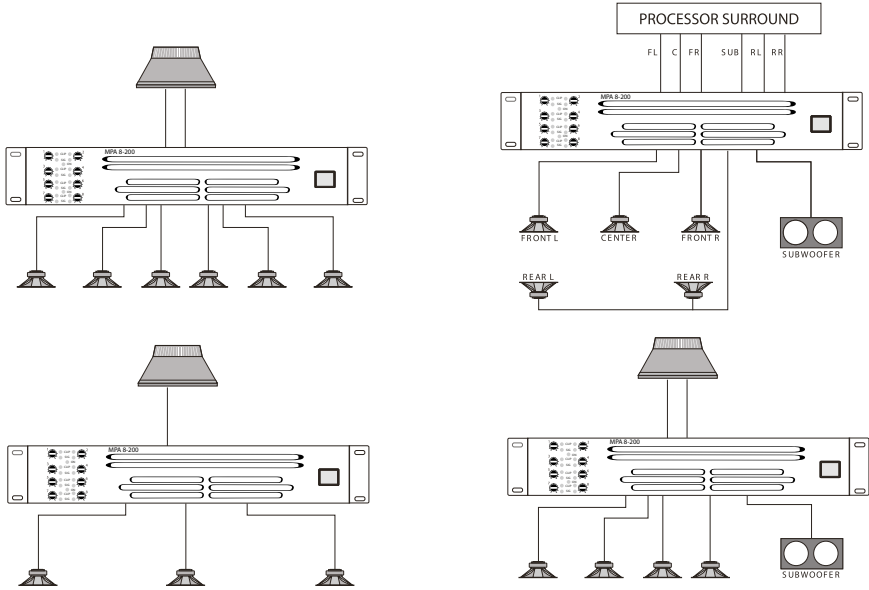


Figure 6 : *Sample applications*

7. Specifications

7.1. Output power (1kHz), Dual mode

Channels/ Loads	8/8	
Impedance (Ω)	4	8
Output (W)	300 per channel	200 per channel

Tableau 1 : *Output power (1kHz), Dual mode*

7.2. Output power (1kHz), Bridge mode

Channels/ Loads	8	
Impedance (Ω)	4	8
Output (W)	N/A	600

Tableau 2 : *Output power (1kHz), Bridge mode*

7.3. Technical data

Description	Data
Frequency response	20Hz - 20kHz @ 1W +/- 0.5dB
Distortion THD	$\leq 0,05$ % @ 1kHz
Input sensitivity	0.775V
Input impedance	10k Ω unbalanced, 20k Ω balanced
Signal to Noise	95dB
Damping factor	> 300
Dimensions (WxHxD)	483 x 88 x 315 mm
Weight	9.0kg

Tableau 3 : *Technical data*

8. Troubleshooting

Symptom	Possible causes	Solution
No output and on or several CLIP leds lit	Input levels too high	Decrease output level from source upstream the amplifier
No output and CLIP leds not lit	Bad selection of input source or bad setting of Volume control	Check dip switches of source selection and setting of Volume control
Clic' noise of relay and CLIP leds lit	Output shorted	Check cabling of inputs and outputs
Low level on loudspeaker babled in bridge mode.	Wrong selection of mode with switch	Check mode selection switch, which must be on Bridge

9. Declaration of conformity

EU Conformity declaration



We, **Active Audio SAS**
332 Boulevard Marcel Paul
44800 Saint Herblain
France



Hereby declare under our own responsibility that the following product:

Type : **Audio Amplifier**
Range : **MPA**
Model : **MPA 8200**

Is in conformity with the directive :

2014/35/UE ("Low Voltage")

In respect of the following norms and standard:

EN62368-1 (October 2014) + A11:2017

and with the directive

2014/30/EU (Equipment EMC)

In respect of the following norms and standard:

EN55032:2015
EN 61000-3-2:2019
EN 61000-3-3:2013+A1:2019
EN55035:2017

Saint Herblain, 01st of July of 2020,

Mr Mathieu POBEDA, Research and Development Director

(With power of attorney)



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