MATRIX AUDIO



MP-1 User Manual

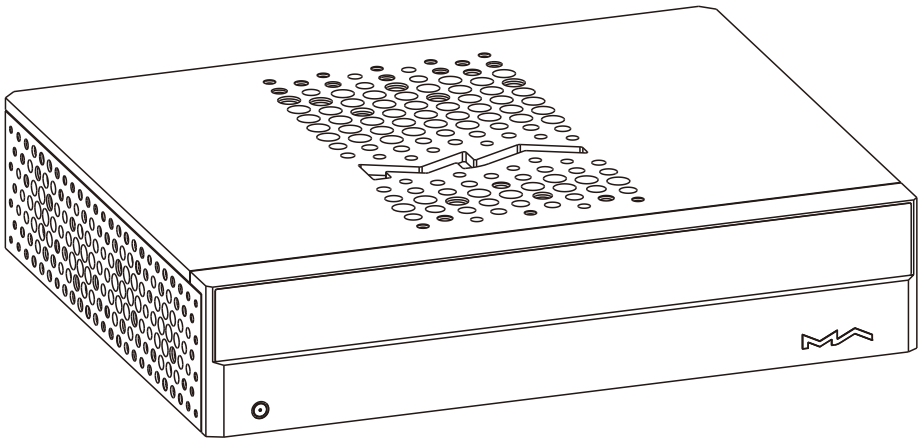
Audio Preamplifier

Packing list 01

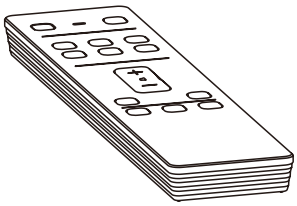
Parts and names 02
Front 02
Rear 03

Settings 04
Channel balance 04
Input level adjustment 04
Default start volume 04
Remote control & address code 04
Programmable button 05
Brightness settings 05
Auto dimmer 05
Language setting 05
Factory reset 05
Product info 05

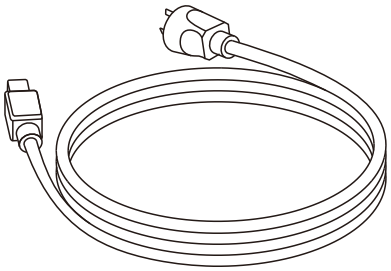
Appendix
Audio specifications 06
Trigger 06
Power specs 06
Weight & size 06



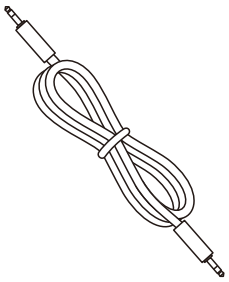
Product



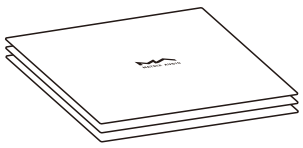
Remote control
(RM4C)



Power cable

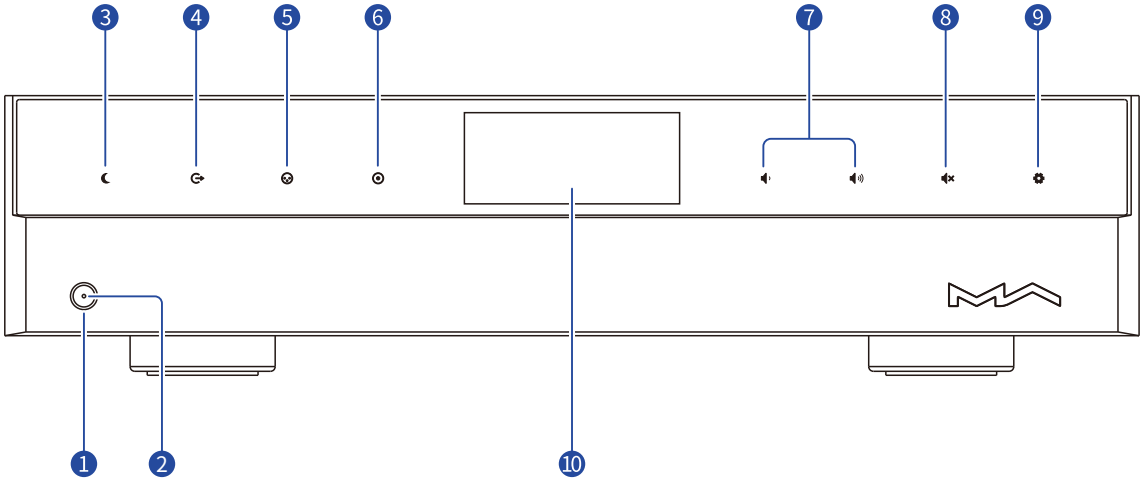


Trigger cable



User manual & warranty card

Front



1 Power on/Standby
After connecting to power supply, press this button to power on the unit. Hold it for 1 second to let the device enter standby.

2 LED indicator
The LED indicator will go off when the device is standby. It flashes when the device is delayed starting, and will keep lit up after the device is started.

3 Touch button for Dimmer
Enable or disable Dimmer mode.

4 Touch button for output selection
Use this button to select among five output modes.
XLR-A: Balanced output A
XLR-B: Balanced output B
XLR: Balanced output A & B work simultaneously.
RCA: Single-ended output
ALL: All the output ports work simultaneously.

5 Touch button for XLR input
Use this button to select among three pairs of XLR inputs.

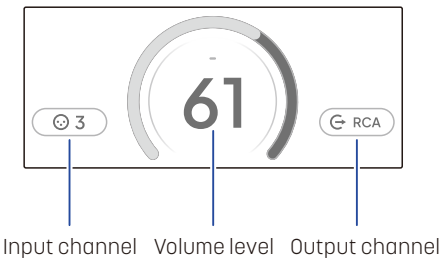
6 Touch button for RCA input
Use this button to select among three pairs of RCA inputs.

7 Touch button for volume up and down
Single touches change volume step by step, hold the button to change volume rapidly.

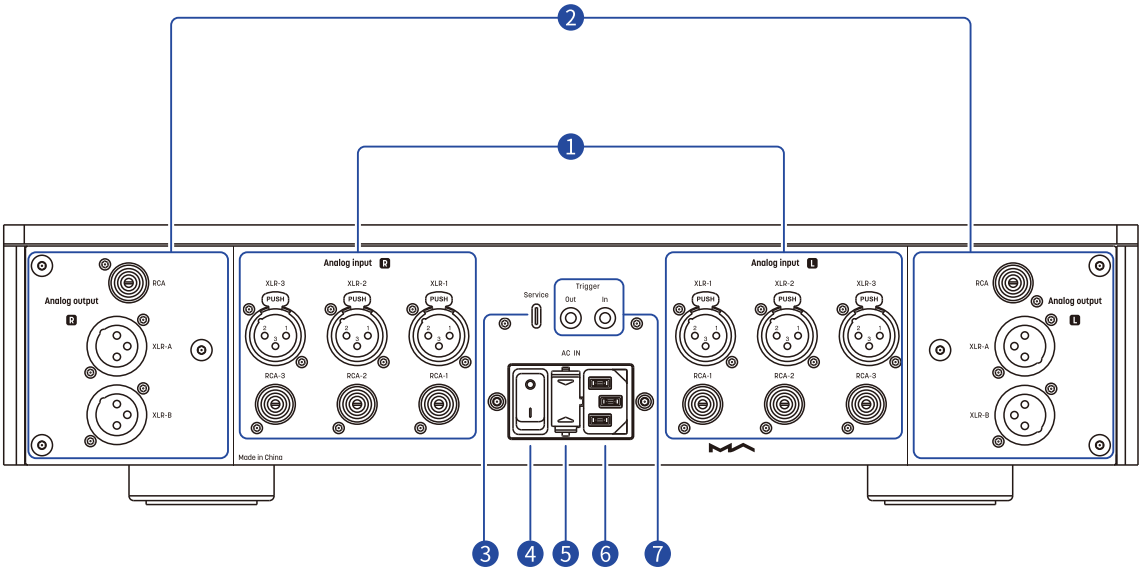
8 Touch button for mute and unmute
Use this button to mute and unmute.

9 Touch button for settings menu
Enter the settings menu by touching this button.

10 Display



Rear



1 **Analog input**
There are three pairs of RCA and three pairs of XLR inputs.

2 **Analog output**
There is one pair of RCA outputs and two pairs of XLR outputs.

3 **USB Type-C**
For firmware update.

4 **Power switch**
If you need the device to be turned off completely, please turn off this switch. Otherwise, there is still about 1W power consumption in standby mode.

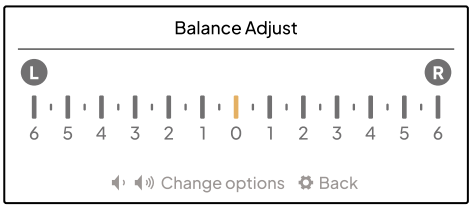
5 **Fuse holder**
Please use a 5*20mm time-delay fuse.

6 **Power input**
Please use a power cable which includes an earth wire and ensure you have a reliable earth wire connection. Otherwise, the casing of the device may have a slightly charged touch.

7 **Trigger input/output**
Connect to audio devices with trigger ports through a ø3.5 mm mono plug cables, to achieve a linkage control between the MP-1 and other devices. The trigger output provides a 12V DC signal.

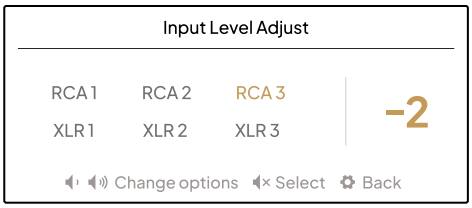
1. Balance adjust

Set the balance of left and right channels. Every step changes 0.5dB, the maximum adjustment per channel is 6dB.



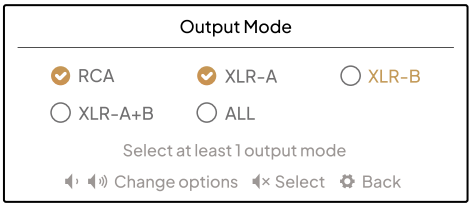
2. Input level adjust

Set the level of every input channel, to achieve the level of different input channels to keep consistent. Every step changes 0.5dB, the maximum adjustment is 6dB.



3. Output mode

Enable or disable some output modes. Output modes which are disabled will not be displayed in the output options, at least 1 output method must be selected.



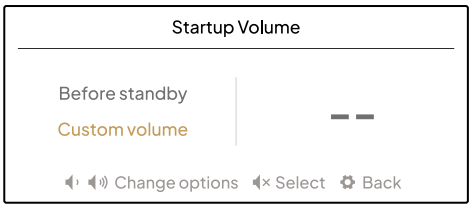
4. Volume control method

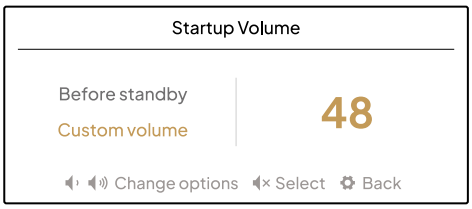
When the option "Independent volume" is selected, different volume values will be saved for every output channel.



5. Startup volume

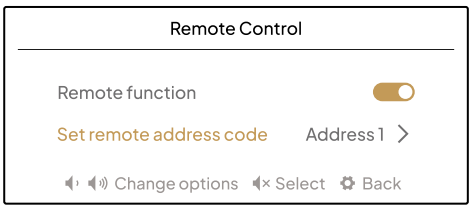
Set the default volume when the device is turned on. The device can remember the volume before it was shut down or set to any volume between 1-60.

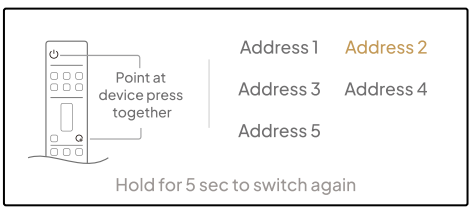




6. Remote control

Enable or disable IR remote control functionality. If there are multiple Matrix Audio devices that work at the same time, you can set the address code of the IR remote control to avoid misoperation.

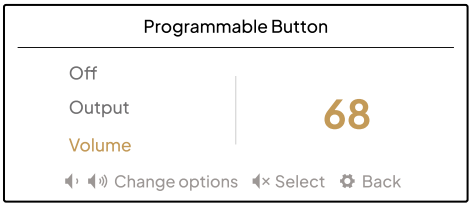




7. Programmable button

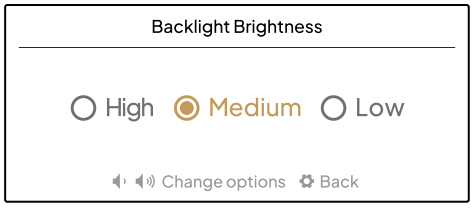
Set the functionality of programmable button on the IR remote control. They can be defined as a specific input channel or a volume level.





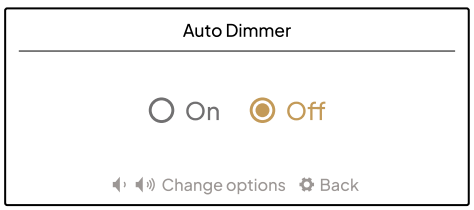
8. Backlight brightness

Set the brightness of the display and the touch buttons.



9. Auto dimmer

Enable or disable the device automatically enters dimmer mode when there is no operation. When this option is set to "Off", the device will still enter dimmer mode by pressing the Dimmer button on the IR remote or the touch button on the device.



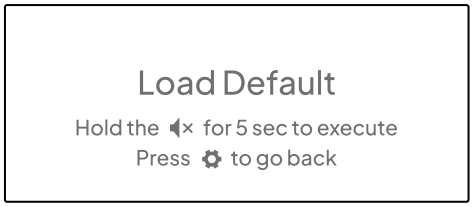
10. Language

Select your preferred language for the user interface. Chinese and English are available.



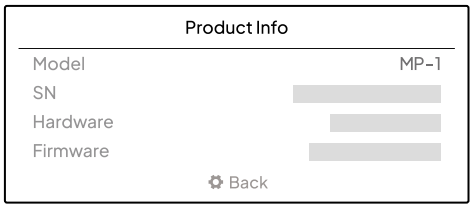
11. Load default

Reset all the settings to default.



12. Product info

View the basic information of the device.

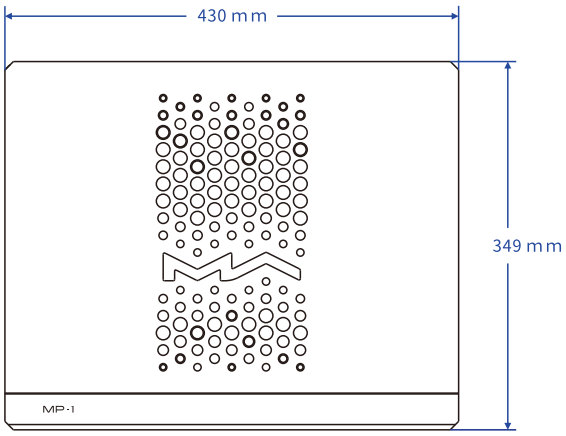


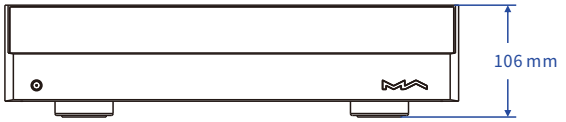
Audio Specifications

	XLR	RCA
Input Impedance	40kΩ	20kΩ
Output Impedance	40Ω	20Ω
Maximum Input Level	9Vrms	4.5Vrms
Maximum Output Level	36Vrms	18Vrms
Frequency Response	20-20kHz±0.1 250kHz @-3dB	
Dynamic Range Output	129dB@A-weighting 125dB@Unweighting	125dB@A-weighting 120dB@Unweighting
THD+N Output	<0.00015%@A-weighting <0.00020%@Unweighting	<0.00040%@A-weighting <0.00040%@Unweighting
Crosstalk Output	-140dB	-130dB
Gain	+12dB	
Volume Steps	100	

Weight & size

Weight: 15.7kg (34.6 pounds)
Size: Width 430 mm (16.93 inches)
Depth 349 mm (13.74 inches)
Height 106 mm (4.17 inches)





Trigger

Trigger In: DC 6-12V <10mA
Trigger Out: DC 12V/50mA MAX

Power Specs

Power Voltage: AC 100V-120V 50/60Hz or AC 220V-240V 50/60Hz
factory-fixed
Standby Power Consumption: <1W
Maximum Power Consumption: <70W

* For improvement purpose, specifications subject to changes without prior notice.

- This product is for indoor use only.
- For full ventilation, it is recommended to reserve a space of larger than 5 cm around the device.
- Do not cover the air vents with stuffs such as papers, tablecloths, and curtains to obstruct ventilation.
- Do not place stuff with flame, such as lighted candles, on the device.
- If the device is used in tropical areas, please be careful to prevent insects from entering the unit through the air vents.
- The device must not be subject to water droplets or splashes. Please do not place stuffs filled with liquids such as vases and cups on or near the device.



Matrix Electronic Technology Co., LTD

matrix-digi.com

+86-29-86211122

4th Floor, Building 2, Dapu Industrial Park, #4955 Shangyuan Road, Xi'an, Shaanxi, China,710018

PGYB001V1.3