

# Pre-amplifier Installation Manual



## Safety Instructions

### Warning:

do not allow heavy objects to pile up or step on the power cord. Do not pull, pull or distort the power cord. Do not abuse the power cord. Defective power lines may cause fire or cause injury.

If you have any doubt about whether the product is properly grounded, please entrust qualified electrician or maintenance personnel to check, please do not try to change the power plug of the product without permission, if it does not fit into the power socket, you can entrust qualified electrician to install the appropriate power socket.

When using electrical products, the following basic precautions should be taken

1. Please read all safety instructions carefully before using this product
2. The product shall be grounded. In case of failure, electricity shall flow through the minimum grounding resistance to the ground to reduce electric shock.
3. The power cord and power plug of this product are equipped with safe grounding. The power plug should be firmly inserted into the appropriate power base, which should be installed and grounded completely according to local regulations.
4. To minimize the risk of injury, when products are used near children, they should be carefully monitored.
5. Do not use the machine in places with high humidity, such as: near the bathtub, wash basin, kitchen sink, basement with high humidity or near the swimming pool and lake, do not place containers of water or other liquids on the machine.
6. This product may produce a volume that may cause permanent hearing loss. Do not move at a large or uncomfortable volume for a long time.
7. The product should be installed in a well-ventilated place.
8. The product must be kept away from heat sources, such as electric heaters, blankets or other products that generate heat.
9. The power type of the product must conform to the event indication or the type indicated on the product.
10. This product should be equipped with a power cord conforming to safety certification. If you cannot insert the power plug into the power socket, please contact an electrician to replace the old socket.
11. When not in use for a long time, please pull out the power cord from the power socket.

When pulling out the power cord from the power socket, do not pull the power cord.

12. careful care, do not let debris or liquid from the gap into the machine.

13. When the following situations occur, qualified maintenance personnel should be entrusted to repair:

A. The power cord or power plug has been damaged;

B. debris or liquid has fallen into the machine;

C. The product has been rained;

D. The product has been unable to operate normally or changed significantly during the performance;

E. The product has fallen or its appearance is damaged.

14. In case of any situation not described in the user's maintenance guide, do not attempt to repair it without permission, but entrust qualified maintenance personnel to repair it.

## Summary:



## Usage:

1、 Standard case design, 1U aluminum alloy panel, user-friendly design, beautiful and practical.

2、 With 10 input channel :including 5 line MIC input, 3 line AUX input, 2 EMC line input .

3、 With 2 Line output to connect amplifier or other audio terminal .

4、 MIC1 has the highest priority .

5、 When MIC1 has audio input , it will broadcast prompt tone first after turning on the switch of broadcast prompt tone . Its volume can be adjusted .

6、 MIC 1, 2, 3 and 4 are XLR and TRS two-in-one interfaces for easy access to each microphone.

7、 The volume of MIC input channel and AUX input channel can be adjusted

independently

8、 Microphone interface with +48V fantasy power and phantom power switch, to provide power for capacitor microphone.

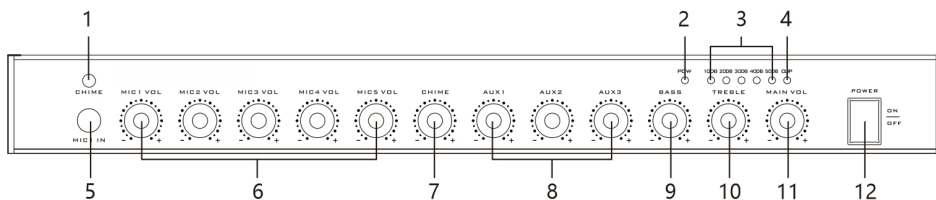
9、 With TREBLE and BASS independent adjustment.

10、 With 5 audio signal indicator light and 1 overload indicator light to show real time audio signal input situation .

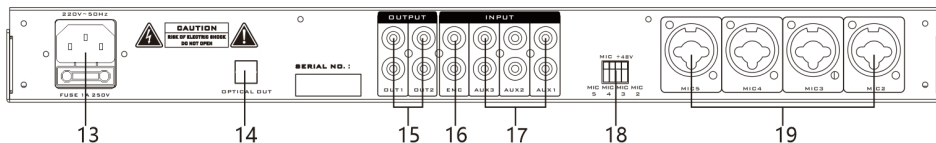
11、 Fiber optic interface is reserved for future upgrading

## Interfaces

### Front Panel



### Back Panel



1、 Broadcast prompt tone button: When Mic 1 has audio input ,it will broadcast prompt tone first after turning on the button.

2、 Power indicator light: Indicate power on or not

3、 Output level indicator light: It can exactly display the size of the output level signal of the power amplifier .

4、 Distortion indicator light: When the output signal of the power amplifier is distorted, the indicator light will stay on.

5、 MIC1 input interface : It can connect TS-core microphone and it is with highest priority

6、 Volume control knob for microphone mic1-mic5, which can separately control the input signal size of each microphone.

- 7、 Broadcast prompt tone control knob: It can adjust the volume of broadcast prompt tone.
- 8、 Volume control knob for Line in1,Line in 2, Line in 3; the volume of each line input can be controlled separately.
- 9、 Bass adjustment knob: the volume of bass can be adjusted.
- 10、 Treble adjusting knob: the volume of treble can be adjusted.
- 11、 Total sound volume adjustment knob: The volume of total sound can be adjusted.
- 12、 Power switch: control pre-amplifier power switch.
- 13、 Fuse holder: effectively protects the pre-amplifier interior from burning out due to excessive current., AC 200-240V,50Hz power input。
- 14、 Fiber optic output interface:reserved
- 15、 Signal output interface:Mixing audio signal output interface.
- 16、 Emergency auxiliary input: EMC1\EMC2, with priority.
- 17、 Line input interface:AUX 1-AUX 3 three-line interface and it connect RCA audio line .
- 18、 48V Phantom power switch: To control the Phantom power supply of MIC2-MIC5
- 19、 Microphone Interface: This interface is to connect microphone with 6.3mm plug or with XR CANNON plug

### **Remind:**

MIC1,EMC1 and EMC2 are with priority input ports. The signals input by these ports will automatically suppress other input port signals, among which MIC1 has the highest priority and can suppress all other signals. EMC1-2 has secondary priority and it can suppress all other signals except for signals from MIC1.

It is recommended to connect the emergency broadcast microphone to MIC1 and the alarm to EMC1 or EMC2.

### **Instructions**

- 1、 Turn all audio adjustment and volume adjustment knobs to the minimum (left of MIN) to prevent equipment damage caused by excessive input signal adjustment.
- 2、 Connect the emergency broadcast microphone to the MIC1, the alarm is connected to EMC1-2, and the bell microphone is connected to MIC2-5.
- 3、 The background music CD, the radio and the mobile phone are connected to either

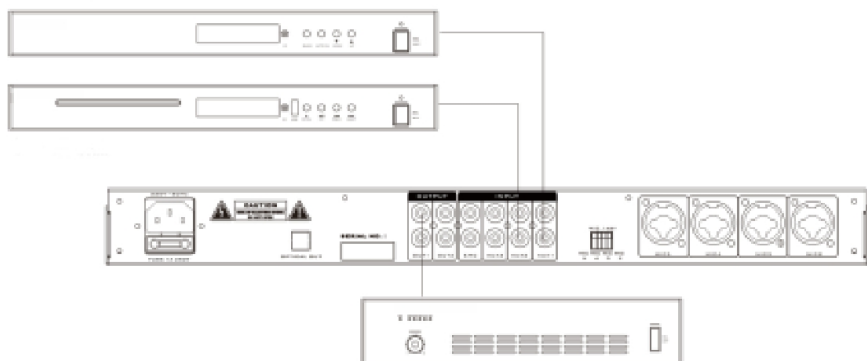
of these three ports, AUX1, AUX2 or AUX3.

4、Any output interface of the pre-amplifier OUT is connected to the amplifier input interface.

5、Power on, turn on the power switch, and the power indicator lights up.

6、Turn on the sound source of the mobile phone, and slowly adjust the corresponding volume channel one by one until the speaker outputs the appropriate volume to be heard by the ear.

### Connection diagram



### Specifications:

|                        |                      |
|------------------------|----------------------|
| MIC input              | 15mV/600Ω unbalance  |
| MIC auxiliary input    | 0.77V/10KΩ unbalance |
| AUX input              | 350mV/10KΩ unbalance |
| EMC input              | 15mV/600Ω unbalance  |
| Emergency line input   | 350mV/10KΩ unbalance |
| Audio output           | 100R, 1V unbalance   |
| Output noise silencing | ≤3mV                 |
| Frequency response     | 20Hz-20KHz           |
| Silence depth          | adjustable           |
| Silence delay          | 0.5 adjustable       |

|                                |                                          |
|--------------------------------|------------------------------------------|
| SNR                            | MIC input: 50db; AUX input: 80db         |
| Pitch adjustment<br>(bass)     | $\pm 10\text{db}@100\text{Hz}$           |
| Pitch adjustment<br>(treble)   | $\pm 10\text{db}@10\text{KHz}$           |
| Protection                     | AC FUSE $\times 1\text{A}$               |
| Power                          | AC220V/50Hz                              |
| Consumption                    | 20W                                      |
| Size (W $\times$ H $\times$ D) | 484 $\times$ 394 $\times$ 44mm           |
| N.W                            | 4.8Kg                                    |
| Material                       | Black brushed Aluminum panel , SPCC case |

### Packing list

Pre-amplifier-----1PCS  
Power line-----1PCS  
Audio line-----1PCS  
Quick user manual-----1PCS



V3. 0B230323