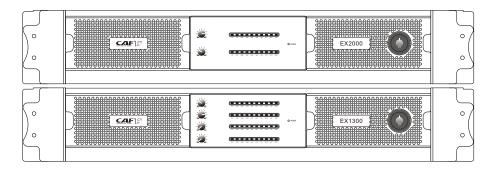


EX Series Power Amplifier

PROFESSIONALSOUND SYSTEM



User Manual

- 1.Read these instructions.
- 2. Keep this user manual.
- 3.Pay attention to all the notice.
- 4. Comply with these instructions.
- 5.Clean with soft cloth, or blow with hyperbaric air.
- 6. Warning: Avoid the formation of hot air circulation. Installation as suggested way.
- 7.Do not install near heat, make sure the application temperature is below 35°C.
- 8. Ensure that the grounding is valid, floating ground is not recommended.
- 9.Protect the wire from being trampled or extruded, especially the plug, socket and the connector of it.
- 10.Make sure the startup and turnoff procedure: Pre-amp Amplifier (Power on) Power amplifier (off)
- 11. Power supply voltage must be in accord with the requirement of the equipment before use it.
- 12. Signal distributor is advised to be used when the input signal paralleled with more than 3 amplifiers, to ensure the input signal without distortion.
- 13.Don't connect the output interface of one channel to the input interface of another channel in the power amplifier. Don't connect one power amplifier to another one by connecting their output in series or parallel connection.
- 14. When equip the audio equipments, the power of the power amplifier should be 50%-100% more than the loudspeaker power. Be careful when in bridged mode.
- 15. When maintenance, don't connect the probe of the oscilloscope to the output interface under bridge mode in case of damaging the power amplifier and the oscilloscope.

16.Suggestions:

- 1) Good quality NI4 Speakers screw plug is advised.
- 2) Power distribution system should ensure the safety of applications of more than one amplifier.



The exclamation point triangle is used to alert the user to important operating or maintenance instructions.

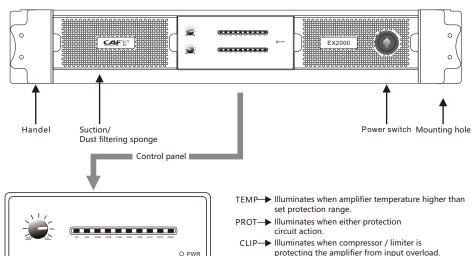


The lightning bolt triangle is used to alert the user to the risk of electric shock. non-professional qualified technicians do not open TOP OR BOTTOM COVERS for maintenance

> **A** WARNING TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE.

Front panel functions

Front Panel



CH1-CH2→ Gain Controller Knob

300° volume knob from 0 to -80dB. Stereo/Paralle Mode: volumes of CH1 and CH2 control independently.

Bridge Mode: CH1 knob controls both volumes. Ch1 stops working.

For normal operation, please keep the controller at max (0 dB).

protecting the amplifier from input overload.

-3dB→ Illuminates when output signal around -3dB than full power.

-6dB→ Illuminates when output signal around -6dB than full power.

-10dB → Illuminates when output signal around -10dB than full power.

-15dB→ Illuminates when output signal around -15dB than full power.

-20dB→ Illuminates when output signal around -20dB than full power.

SIG- The signal light

ON- Illuminates when the amplifier start.

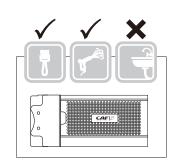
Cleaning guide of the dust filter



The first time cleaning of the strainer mesh should be right after installation. Recommend to clean the strainer mesh quarterly.

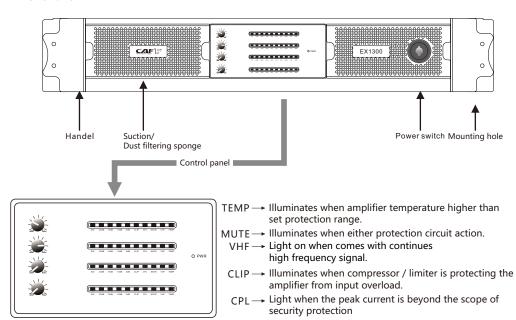
Please do not run the product without the dust filter, or it makes the service life of the product shorten.

Such condition will be considered as no warranty.



Rear panel functions

Front Panel



- -5dB → Illuminates when output signal around -5dB than full power.
- -10dB → Illuminates when output signal around -10dB than full power.
- -15dB → Illuminates when output signal around -15dB than full power.
- -20dB → Illuminates when output signal around -20dB than full power.
 - $SIG \rightarrow Illuminates$ when output signal around +6dB(2V).

POWER → Illuminates when the amplifier start.

CH1-CH2-CH3-CH4 → Gain Controller Knob.

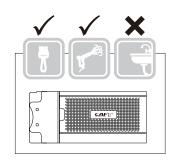
Cleaning guide of the dust filter



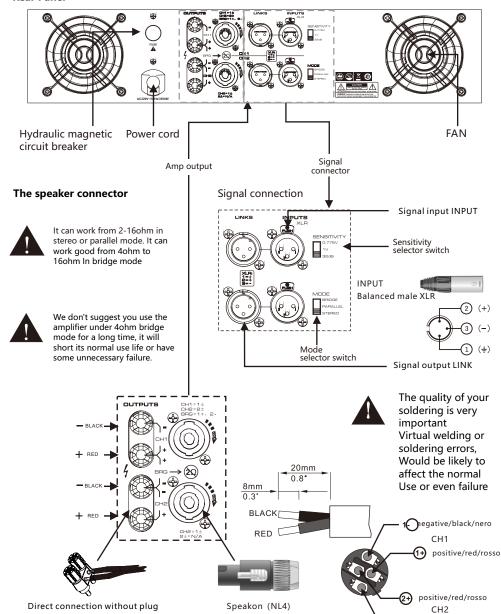
The first time cleaning of the strainer mesh should be right after installation. Recommend to clean the strainer mesh quarterly.

Please do not run the product without the dust filter, or it makes the service life of the product shorten.

Such condition will be considered as no warranty.

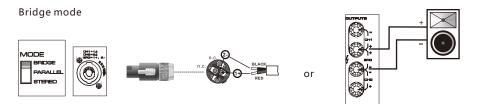


Rear Panel

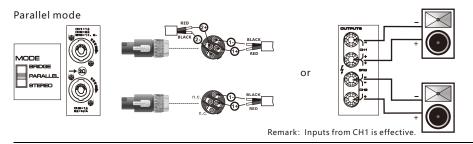


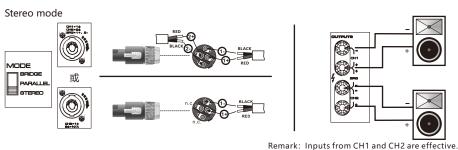
negative/black/nero

Speaker Signal source

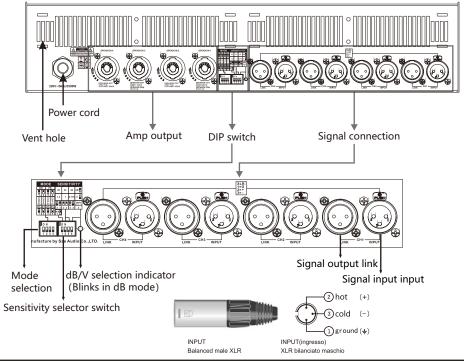


Remark: Inputs from CH1 is effective.

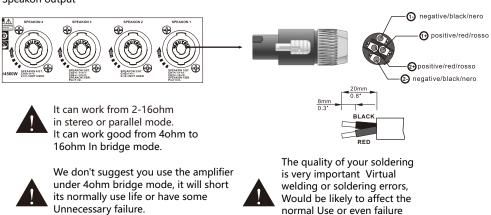


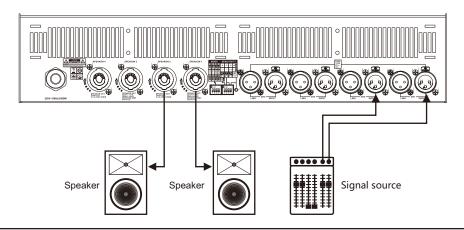


Rear Panel

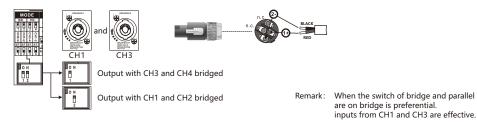


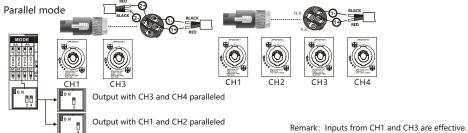
Speakon output

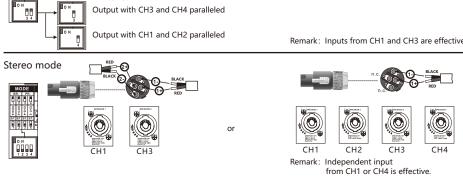




Bridge mode

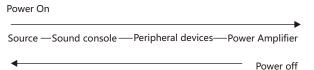






7

Procedure



Power Level Adjustment

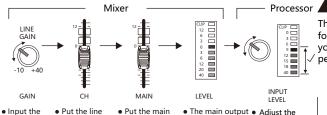
Power amplifier should be in the condition of no load in the following adjustment process: Process:



For high power system, the Power-on order is very important, not in the order is likely to damage the equipment. Therefore we suggest that you use the sequence power device.



This is a normal step to adjustment, for more professional adjustment you should have a professional person to do that.



stable pink output to 0dB output to 0dB noise

 Adjust input gain

amplitude set input level of should be processor like displayed the above as: 0 db picture

Processor Mixer LINE (----(- - - - - - - - -) OUTPUT LEVEL GAIN LEVEL LEVEL

- processor, the range like the above picture shows
- Adjust the output level of Adjust the volume knob Then adjust the input and make the output level within the range as above output less 3dB. picture shows.
 - This setting is to ensure twice power.

Music Audition

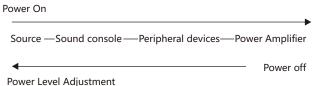
Adjust the volume from very small to loud slowly, after you confirm the sound is normal then make it more louder. When the speaker output is close to its limit, the CLIP light will lights up and you should turn down your volume now, don't let the CLIP lights on long time, it means over load, may damage the system.



This step should operated by professional person, if you don't know how to do, please be careful!

8

Procedure



Power amplifier should be in the condition of no load in the following adjustment process:

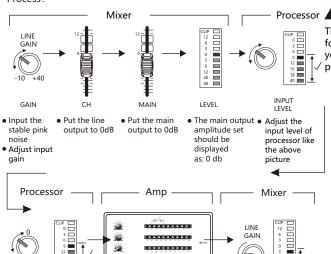
Process:



For high power system, the Power-on order is very important, not in the order is likely to damage the equipment. Therefore we suggest that you use the sequence power device.



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processor, the range like the above picture shows

OUTPUT

LEVEL

• Adjust the output level of • Adjust the volume knob • Then adjust the input and make the output level within the range as above picture shows.

LEVEL

gain to make the main output less 3dB.

GAIN

9

• This setting is to ensure twice power.

Music Audition

Adjust the volume from very small to loud slowly, after you confirm the sound is normal then make it more louder. When the speaker output is close to its limit, the CLIP light will lights up and you should turn down your volume now, don't let the CLIP lights on long time, it means over load, may damage the system.



This step should operated by professional person, if you don't know how to do, please be careful!

Specifications

Model	EX1300	EX2000
Output power		
8Ω stereo*	1300Wx2	2000Wx2
4Ω stereo**	2100Wx2	3500Wx2
2Ω stereo**	2500Wx2	4600Wx2
8Ω bridge**	4200Wx2	7000W

Other Specifications				
Frequency response	20Hz-20KHz:+1dB			
THD+N		≤0.05%		
Signal-to-noise ratio	≥100dB	≥105dB		
Damping coefficient	≥600dB	≥600dB		
Crosstalk	≥70dB	≥70dB		
Slew rate	≥35V/µs	≥30V/µs		
Input sensitivity	0.775V/1V/1.4V/38dB/32dB/26dB	0.775/1.0V/32dB		
Input impedance(bal/unbal)	20K/10K(Balanced/Unbalanced)			

TD

Soft start, VHF, DC, short circuit, over load, clip limit, over heat, progressive volume

Line category	TD	
Output circuitry	Class I™	
Cooling	Air flow from front to rear	

Connection			

Input Balance input XLR-F, Balance output XLR-M Two red and black Binding posts, NI4 SPEAKON

Output **Function**

Protection

Front panel Front panel indicator: Working indicator, Signal/Clip/Protection/Power on/-3db/-6db/-10db/-15db/

-20db / volume control knob

Rear panel Sensitivity selection switch, stereo/parallel/bridge/Cross-over selection switch

Dimensions/V	/eight		
Product Dimension	n(mm)	483x480x88	
Packaging Dimens	ion(mm)	610x565x160	
G.W.	16.5kg	16kg	
AC		220V 50/60Hz	

Remark: 1, *,The power is tested under EIA standard.

2, **, The power is tested under the condition of 40ms burst, 1kHz sine wave and 1% THD