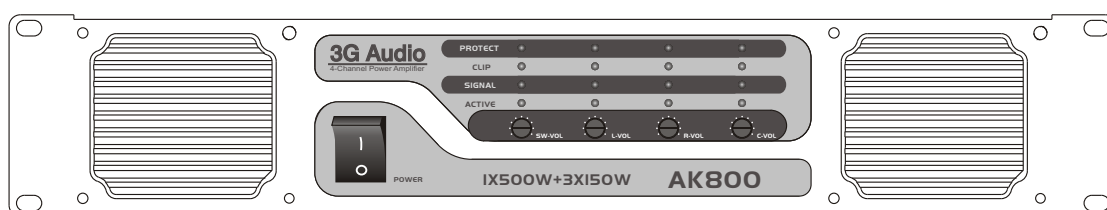


USER MANUAL

FOUR CHANNEL POWER AMPLIFIER



● AK800

SPECIFICATIONS

CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN

TO PREVENT ELECTRIC SHOCK DO NOT REMOVE TOP OR BOTTOM COVERS. NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL. DISCONNECT POWER CORD BEFORE REMOVING REAR INPUT MODULE TO ACCESS GAIN SWITCH.

AVIS

RISQUE DE CHOC ELECTRIQUE
N'OUVREZ PAS

À PREVENIR LE CHOC ÉLECTRIQUE LE N'ENLEVEZ PAS LES COUVERTURES. RIEN DES PARTIES UTILES À L'INTÉRIEUR. DÉBRANCHER LA BORNE AVANT D'OUVRIR LA MODULE EN ARRIÈRE.

Magnetic Field

CAUTION! Do not locate sensitive high-gain equipment such as preamplifiers or tape decks directly above or below the unit. Because this amplifier has a high power density, it has a strong magnetic field which can induce hum into unshielded devices that are located nearby. The field is strongest just above and below the unit.

If an equipment rack is used, we recommend locating the amplifier(s) in the bottom of the rack and the preamplifier or other sensitive equipment at the top.

WATCH FOR THESE SYMBOLS:



The lightning bolt triangle is used to alert the user to the risk of electric shock.



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



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FOUR CHANNEL POWER AMPLIFIER

1. Introduction

AK800 amplifier has been designed using an advanced structural concept and qualified components to meet the most demanding requirements in the sound amplification field.

The AK800 amplifier has four independent channels:

Center channel	Left channel	Right channel	Subwoofer channel
150W	150W	150W	500W

2. Operating Instructions

Before connecting the amplifier to the power socket, make certain that the voltage corresponds with that indicated on the rear of the unit. (a tolerance of $\pm 10\%$ is acceptable).

Before connecting the power cable to the mains, always make certain that it is not damaged and that there are no bare wires, always connect the power cable to the amplifier before switching it on and only remove the cable after switching it off.

3. Inputs

There's a XLR connector for each channel respectively on the back panel of AK800.

4. Outputs

Each channel has a NL4 connector and a binding post connector connected in parallel. Only loudspeakers within the amplifier's declared power and impedance load range should be connected to the amplifier's output. The red binding posts are considered as hot, connecting to the positive poles of loudspeakers, the black binding posts connecting to the negative poles of loudspeakers.

5. Power Supply

Make sure power capacity of power outlet is correct. The AK800 amplifier power requirement is: 220V/AC, 12A FUSE.

6. Volume control

There are 4 hidden volume controls for each channel respectively.

Do not attempt to service the products beyond that described in the manual. All other serviceable should be referred to qualified service personnel.

FOUR CHANNEL POWER AMPLIFIER

7. LEDs.

The following is a description of all the AK800 protection:

1)PROTECT LED

Indicates that one of the various protections safeguarding the different sections of the amplifier and the loudspeaker enclosure has tripped due to an operating fault.

In these cases, the power output is normally switched off until normal operating conditions are restored.

2)CLIP LED

Indicates the presence of distortion as a result of excessive input level or too low output impedance.

3)SIGNAL LED

Indicates signal presence for receptive channel.

4)ACTIVE LED

Indicates active status.

8. Protection Features

Each AK800 power amplifier incorporates several circuits to prevent itself and the loudspeakers connected from short circuit, DC voltage, and overheating damage.

(1)Thermal Protection

In the event of malfunction, a sensor located on the power outputs is able to break the circuit avoiding that current peaks reach the speakers and damage them.

(2)DC Protection:

(3)Turn ON/OFF Protection

(4)Short circuit protection

Trips in the event of a short-circuit or overload, limiting the output current.

9. Maintenance

Correct cooling for the amplifier is ensured by an internal fan, the speed of which is controlled by a special sensor (the speed is proportional to output power and therefore the temperature generated): remember never to block the air vents located on the sides of the unit in any way.

Avoid exposing the amplifier to direct sunshine, high temperature environment, strong heat, intense vibrations, very dusty or damp surroundings, or even worse, rain: which will cause eventual malfunction, deterioration or even electric shocks and **fires**.

10. User Responsibility

Before connecting or operating your new AK800 amplifier, please study the accompanying instruction manual carefully. Pay particular attention to the operating precautions and wiring procedure.

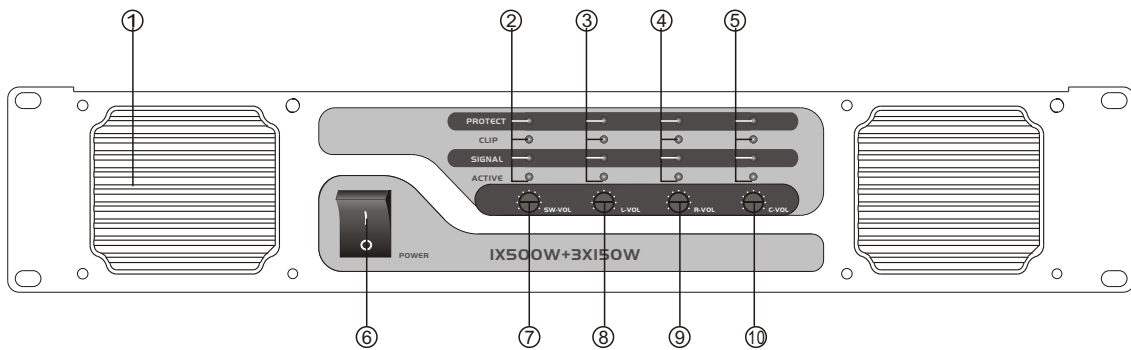
FOUR CHANNEL POWER AMPLIFIER

II. Specifications

SPECIFICATION	Subwoofer channel	Left channel	Right channel	Center channel
Output power (0.1%THD, 8 Ω , 1KHz sine wave)	500W	150W	150W	150W
Frequency response	20Hz-20KHz(\pm 0.2dB)			
Total harmonic distortion (10% Rated output power)	<0.08%	<0.04%	<0.04%	<0.04%
Intermodulation distortion 60Hz/7KHz, 1% output power)	<0.5%	<0.1%	<0.1%	<0.1%
Signal to noiseratio(A weight)	103dB	98dB	98dB	98dB
Damping factor	>218	>127	>187	>127
Slew rate	14.5V/us	12.5V/us	12.5V/us	12.5V/us
Input impedance	Balance input-20K Ω , Unbalance input-10K Ω			
Input connectors	3 Pins XLR			
Output connectors	Binding post, NL4			
Cooling	Dual Cooling Fans			
Controls(front panel)	Hidden independant volume controls			
Controls(back panel)	Limit select control, ground select control			
LEDs	Red - Protection, Red - Clip, Green - Active, Green - status			
Protection	Short circuit / DC / Overload / Overheat protection			
Dimensions	483x452x90mm			
Weight	24Kg			
Packing Dimensions	550x540x175mm			
Packing Weight	27Kg			
Max power consumption	1200W			
Power supply	AC 220V-240V, 50Hz			

FOUR CHANNEL POWER AMPLIFIER

[Front Panel]



1. Air Vents

2. LEDs for Subwoofer channel.

Protect/clip/signal/active

3. LEDs for Left Channel.

Protect/clip/signal/active

4. LEDs for Right channel.

Protect/clip/signal/active

5. LEDs for Center channel.

Protect/clip/signal/active

6. Power switch

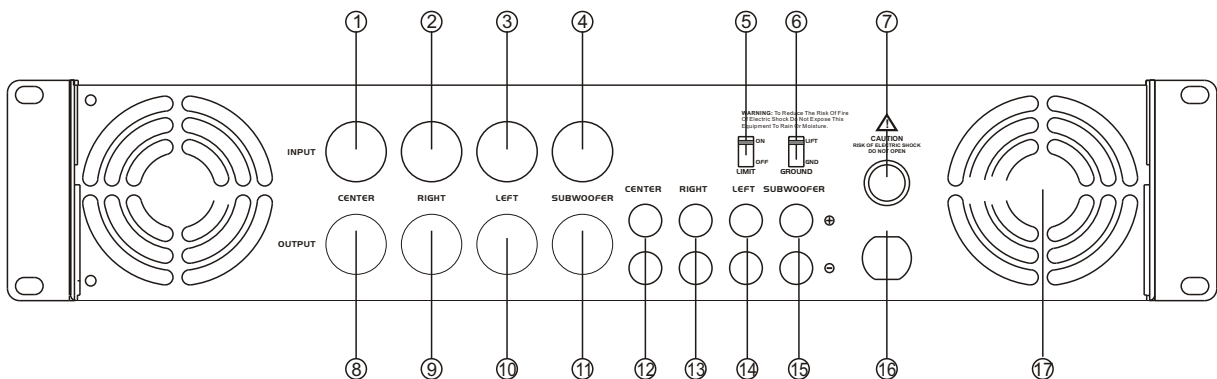
7. Subwoofer channel volume control.

8. Left channel volume control.

9. Right channel volume control.

10. Center channel volume control.

[Rear Panel]



1. Signal input connector of Center channel.

2. Signal input connector of Right channel.

3. Signal input connector of Left channel.

4. Signal input connector of Subwoofer channel.

5. Limit control.

6. Ground select control.

7. Fuse.

8. Output of center channel.

9. Output of right channel.

10. Output of left channel.

11. Output of subwoofer channel.

12. Output of center channel.

13. Output of right channel.

14. Output of left channel.

15. Output of subwoofer channel.

16. AC power line.

17. Cooling fans.

SYSTEM CONNECTION

