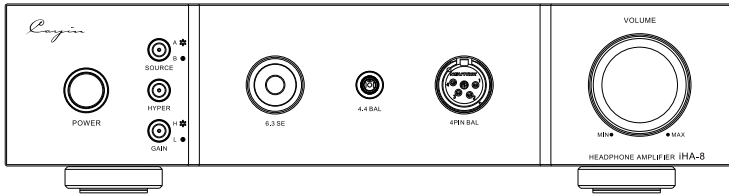


Cayin®

iHA-8 HEADPHONE AMPLIFIER



User's Manual

Thank you sincerely for choosing iHA-8 Headphone Amplifier.
We have prepared this user manual to help you understand the features and get familiar with the operation of the amplifier. We suggest all customers read through this manual before they start to use the device.

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Attention

Please make sure the serial number on the package and the chassis are intact and identical. In case of damage, missing or nonidentical serial number, Cayin reserves the right to refuse warranty service for the machine.

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The user manual is a documentation of product based on the specification at the time of print . Cayin reserves the right to change product specification without prior notice

Package Content-----

Please examine the product package , the package should be free from any physical damage or water stain . You should find the following items when you open the package:

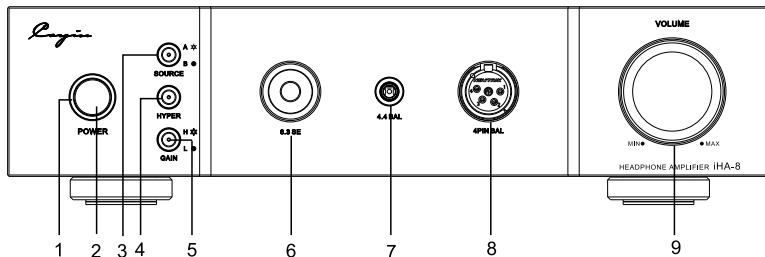
1. iHA-8 Headphone Amplifier x 1 unit
2. User Manual x 1 Piece
3. Replacement Fuse x 2 Pieces
4. Power Cord x 1 piece

Attention: the product package should include only the items in the list .

Features-----

- ◆ Push-pull amplification design with high power ultra-low resistance power MOSFET at power amplification stage , offers excellent dynamic performance.
- ◆ Choice between LINE Input and Pre Input.
- ◆ Hyper Mode of iHA-8 delivers the maximum possible performance of the Headphone Amplifier. With Hyper Mode the Power Output and Timbre will be different. You can choose according to your preferential.
- ◆ Utilizes a four-channel discrete pure Class A input buffer amplification circuit. Incorporating TI low-noise mono Op-Amp, each channel consists of two Toshiba audio grade JFET connected in parallel with a constant current source.
- ◆ Volume control circuit features ALPS potentiometer combined with a pair of hi-end 130-steps electronic volume chips JRC MUSES72320V.
- ◆ Headphone amplifier circuit is powered by a four-channel high-dynamic high-current discrete linear voltage regulation circuit.
- ◆ In-house designed premium grade toroidal transformer with low magnetic leakage and high power efficiency.
- ◆ Large-capacity Nichicon filter capacitors over 50,000uF are used.
- ◆ Extensive protection to amplifier and headphone through comprehensive protection circuit including output DC offset voltage , delay mute when power up , and noise compensation when power down .
- ◆ Solid chassis with aluminum alloy and sand blast finishing , can eliminate exterior interference effectively.

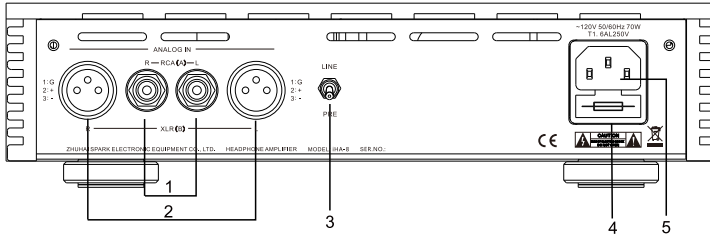
Front Panel Functional Description-----



1. Power indicator: indicate the working status of the amplifier.
 - a. Indicator flashing: in the process of initialization
 - b. Indicator always on: machine in regular operation
 - c. Indicator flashing rapidly: machine malfunction
2. Power On/Off
Turn on and off the amplifier. Press Down the button to turn on the amplifier. Press again will resume to original level and the amplifier will be powered off.
3. Source
Choose RCA Input or XLR Input.
LED lighted up, the amplifier is using Source A and this is the AUX (A) input at the back panel chosen.
LED off, the amplifier is using Source B and that is the XLR (B) input at the back panel chosen.
4. HYPER
LED lighted up Hyper Mode is switched on.
LED Off the Hyper Mode is switched off.
5. Gain
LED lighted up , the amplifier is at "H" mode, meaning the amplifier is operated at high gain.
LED off, the amplifier is at "L" mode, meaning the amplifier is operated at low gain.

If Pre In Mode chosen the amplifier will be always operated at high gain.
6. 6.35mm Single Ended Headphone Connector
Can work with headphone terminated with a 6.35mm connector.
7. 4.4mm Balanced Headphone connector
Can work with headphone terminated with a 4.4mm connector.
8. 4 Pin XLR Balanced Headphone connector
Can work with headphone terminated with a 4-pin XLR connector.
9. Volume Control
Control the volume of the amplifier, turn clockwise to increase volume and turn anti-clockwise to decrease volume.

Rear Panel Functional Description-----



1. Single-ended connector (RCA)

Connect a single-ended audio input to the amplifier, please make sure the left and right channel is connected correctly.

2. Balanced connector (XLR)

Connect a balanced audio input to the amplifier, please make sure the left and right channel is connected correctly.

3. LINE/PRE Input

LINE: Line Input. Please pull the toggle switch outward and turn to LINE. Once Line Input chosen the volume of the amplifier is controlled by the Volume Control and therefore before switch please turn the volume to its minimum.

PRE: Pre Input. Please pull the toggle switch outward and turn to PRE. Once PRE chosen the volume will be controlled by the Preampifier connected and the Volume Control of the iHA-8 will not work.

4. FUSE

If in case you need to change the fuse, please resort to replacement fuse with the same specification with the original.

5. Power input connector: AC Inlet.

Note: Please make sure the AC Voltage of the Amplifier matches with your local power supply voltage. Incorrect input voltage will cause damage to the machine or might even lead to serious household accident, Cayin reserves the right to refuse service or responsibility on related instances.

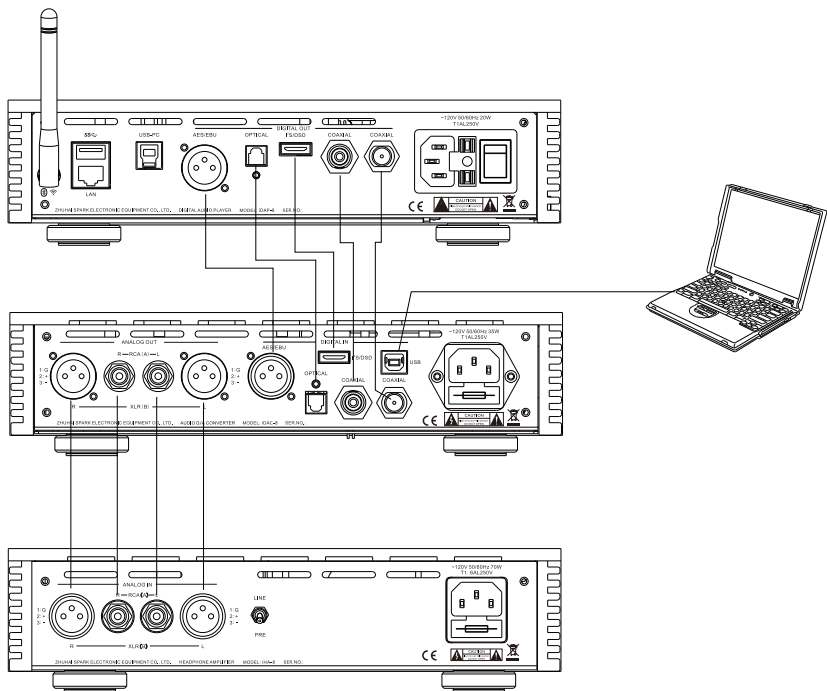
Setup-----

1. Connect to power source

Verify that the AC input voltage of the Amplifier is the same as your local power supply voltage before you connect the power source.

2. Connect to Audio Source

Connect your audio source to the amplifier by an appropriate audio cable. You can choose either RCA or XLR input according to the connection facilitated by your audio source equipment (Selectable from the "Source" button on the front panel). You can connect both RCA and XLR if desired.



Use audio signal cable (RCA or XLR cable) to connect the Analog Input of the Amplifier to the Analog Output of your Audio Source equipment (DAC or CD player, etc.). Then you can easily set up a high quality audio system as shown in the diagram below:

3. Connect to Headphones

1. Single-ended Headphones

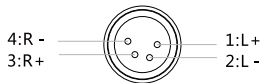
Connect the 6.35mm phone connector of your headphone to the 6.35mm headphone output on the front panel. Adjust the volume to an appropriate level before you enjoy music from the amplifier.

2. 4.4mm Balanced Headphones

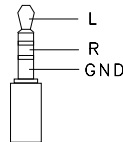
Connect the 4.4mm phone connector of your headphone to the 4.4mm headphone out on the front panel. Adjust the volume to an appropriate level before you enjoy music from the amplifier.

(3) 3.4 Pin XLR Balanced Headphones

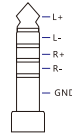
Connect the 4pin XLR connector of your headphone to the XLR headphone out on the front panel. Adjust the volume to an appropriate level before you enjoy music from the amplifier.



4-Pin XLR Balanced
Headphone Connector



6.35mm Headphone
Connector



4.4mm Headphone
Connector

Note:

- If you want to connect a 3.5mm terminated headphone to the amplifier, you need a 3.5mm to 6.35mm Headphone Adapter (not included in the package).
- Listening through headphones at a high volume for extended periods of time can result in hearing impairments.
- Please do not use headphones when you are in a dangerous environment.
- Please do not use mono (TS) phone plugs with this amplifier as this might cause serious damage such as a short circuit in the amplifier.

Basic operation-----

1. Please make sure the AC Voltage of the Amplifier matches with your local power supply voltage.

Please make sure all connections in the system are correct.

- 1) Please pull the LINE/PRE toggle switch outward and turn to LINE.
- 2) Set the volume control at the front panel to the lowest position.
- 3) Press down the Power button on the front and the amplifier will start up. Power indicator will flash and the Amplifier enters into time delay state.
- 4) Power Indicator stays on, the amplifier is ready for operation.

Note: Please do not remove any audio cable when the amplifier is in normal operation. Or it might cause damage to the amplifier or other associated equipment.

2. Play music at your source equipment. Put on your headphones and turn up the volume, then you can enjoy your music now.

Safety Precautions-----

1. Please make sure the AC Voltage of the Amplifier matches with your local power supply voltage.
2. Unplug the power cord if you don't use the amplifier for a long period of time, and keep the machine in proper condition.
3. Please handle with care, avoid tempering to the machine.
4. The amplifier will not work appropriately if moisture has developed inside it. Please avoid operation of the machine until internal moisture has been cleared. Moisture can be caused by placing the amplifier at a location when a heater or steamer has just turned on, or moving the machine from a cold environment to a warm location; or moving the machine from a chilled (e.g., air conditioned room) to a hot and humid environment.

5. Don't attempt to service this product yourself. Opening the cover may expose you to electric shock or other hazards.
6. The amplifier must be kept away from water dripping or water splitting. Don't place any objects filled with liquids such as vases or some others on the top or around.
7. Don't attempt to disassembly the machine. All services and maintenance must be conducted by authorized service technician.
8. Please disconnect the power cable before you attempt to clean the machine. Please use soft clean cloth to wipe and clean the chassis. Do not use volatile solution or corrosive cleaning product.
9. Place the amplifier at a flat surface and make sure all the four feet are evenly loaded.
10. Do not place any flammable material on the amplifier.
11. Do not operate the amplifier under direct sunlight or high temperature, which will cause serious deviation or even damage to the electronic components.
12. The machine will become hot during operation. Please keep the amplifier at a well-ventilated environment and do not cover the amplifier with anything.
13. Please contact your Cayin agent or retail shop, or our after-sales service if the machine is not working properly.

Trouble Shooting-----

To ensure the amplifier will function at premium condition, please follow the basic operation and safety precaution as advised. Improper operation might lead to malfunction. If you run into troubles as stated below, please check according to the Remedy. Sometimes the problems are related to associated equipment or cables, please also check and make sure everything is in proper condition. Please contact your Cayin agent or retail shop, or our after-sales service if the problem cannot be rectified.

Problem		Cause	Remedy
No sound from headphone after power on	Power Indicator on	No signal input	1 . Make sure you have selected the correct source from the front panel . 2. Check if the source equipment work properly.
		Audio cable not connected properly	Connect audio cable properly.
		Headphone not connected	Connect headphone properly.
	Power Indicator off	Volume at lowest position	Turn up the volume control to appropriate level
		Power is not connected	Make sure power cable is properly connected to a power outlet and there is proper power supply from the outlet
		Main fuse is out	Replace fuse with the same specification with the original .

Specification-----

Item	Balanced Headphone	Single-Ended Headphone	Test Condition
Power Output	7700mW+7700mW	2500mW+2500mW	HYPER ON,32Ω
Frequency Respond	10Hz-80kHz	10Hz-80kHz	±0.5dB
Channel Separation	103dB	68dB	1kHz,A-Weighted
Output Impedance	0.4Ω	0.2Ω	
THD+N	0.002% (750mW Output)	0.004% (250mW Output)	1kHz, A-Weighted , 32Ω
S/ N Ratio	130dB	127dB	HYPER ON,GAIN L,AWeighted
Dynamic range	130dB	127dB	HYPER ON GAIN L,A-V
Max. Power Consumption	70W		
Dimension	270*215*70mm(WxDxH)		
Net Weight	Approx5.0Kg		