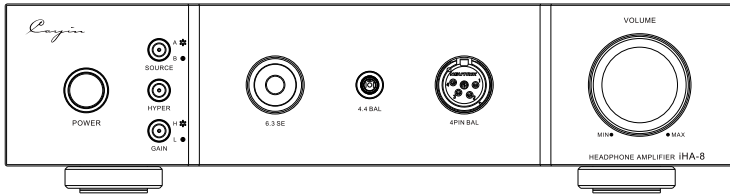


Cayin®

iHA-8 耳机功率放大器



使用说明书

非常感谢您使用 Cayin iHA-8耳机功率放大器。

请于使用前仔细阅读本使用说明书，以便您能够充分了解本机的使用方法及注意事项。

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重 要 提 示：

- ◆ 如果产品包装盒、机壳和保修卡上的产品编号不一致、被涂改或缺少产品编号、缺少保修卡，您将不能享受到正常的售后服务。
- ◆ 在未经本公司事先书面许可的情况下，严禁以任何形式复制、传递、分发和储存本文档的任何内容。
- ◆ 本说明书所提到的产品规格和资讯仅供参考。如有内容更新，恕不另行通知。

包 装 清 单-----

请仔细检查包装盒有无摔伤、破损或湿迹。包装清单如下：

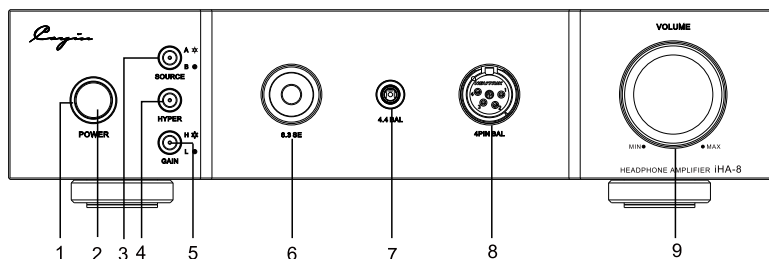
| | |
|----------------|----|
| 1.iHA-8耳机功率放大器 | 1台 |
| 2.使用说明书 | 1本 |
| 3.备用保险管 | 2只 |
| 4.保修卡 | 1份 |
| 5.电源线 | 1根 |

填好保修卡，两周内交给经销商或寄回本公司销售部，我们将为您提供全面周到的售后服务。建议把包装盒和包装材料保存下来，方便以后装运使用。

本 机 特 点-----

- 功率放大级采用高功率低内阻场效应管组成推挽式放大电路。
- 可选择LINE（线路）和PRE（前级）输入模式。
- 可选HYPER（超级工作模式），功率和音色有差异，您可根据喜好选择。
- 内置四路由音频运放IC+分立元件组成的高音质耳机功率放大电路。
- 音量控制采用"ALPS电位器+精密电子音量IC"电路架构，保证操作手感和四通道音量一致性。
- 内置二路大动态大电流分立式线性稳压电路为耳放电路级供电。
- 使用本公司研制的低漏磁、高效率优质环形电源变压器。
- 采用大容量滤波电容（总容量超过50000uF）。
- 内置完善的保护电路，具备中点漂移及开机延时静噪、关机消噪、过流过载保护功能，全面保护放大器和耳机。
- 采用铝合金外壳，有效遮罩外来干扰。

前面板功能说明



1. 电源指示灯

用于指示本机工作状态：

- 指示灯闪烁，开机延时；
- 指示灯常亮，正常工作；
- 指示灯快速闪烁，机器故障；

2. 电源开关(POWER)

用于开启和关闭本机电源。按下开关按钮，本机电源开启；再按一下，开关按钮弹出，本机电源关闭。

3. 音源输入选择 (Source)

按压此按键，可选择AUX或XLR输入，并由指示灯指示输入状态：

按键中心灯亮，表示输入状态为A，即选择了后板的AUX (A) 输入信号；

按键中心灯灭，表示输入状态为B，即选择了后板的XLR (B) 输入信号。

4. 超级模式(HYPER)

按键中心灯亮，表示机器打开了超级模式；

按键中心灯灭，表示机器关闭了超级模式；

5. 高低增益选择(Gain)

按键中心灯亮，状态为“H”，表示高增益，一般适用于高阻抗耳机；

按键中心灯灭，状态为“L”，表示低增益，一般适用于低阻抗耳机。

6. 6.35mm标准耳机输出插座

将6.35mm标准耳机插头插入耳机输出插座即可。

7. 4.4mm平衡耳机输出插座

将直径为4.4mm的平衡耳机插头插入此耳机输出插座即可。

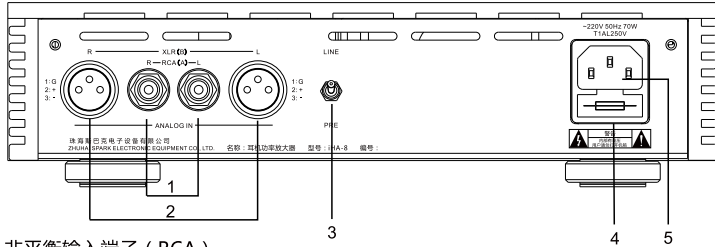
8. 4针平衡耳机输出插座

4针平衡耳机输出插座，将4针平衡耳机插头插入此插座即可。

9. 音量控制旋钮

用于控制本机的音量大小，顺时针方向旋转，音量逐渐增大，逆时针方向旋转，音量逐渐减小。

后面板功能说明-----



1. 非平衡输入端子 (RCA)

用于外部非平衡音频信号输入，请注意左右声道不要接反。

2. 平衡输入端子(XLR)

用于外部平衡音频信号输入，请注意左右声道不要接反。

3. 线路输入/前级输入选择(LINE/PRE)

LINE:线路输入,音量大小由本机的音量旋钮控制。

需要切换到线路输入时,向外拉动扭子开关手柄,然后把扭子开关手柄扭向LINE方向,切换前需将本机的音量调至最小。

PRE:前级输入,音量大小由前级控制,本机音量旋钮无法控制音量。

需要切换到前级输入时,向外拉动扭子开关手柄,然后把扭子开关手柄扭向PRE方向,切换前需将前级的音量调至最小。

4. 保险丝 (FUSE)

如需更换，请使用相同规格的保险丝。

5. 电源输入插座

交流电源由此输入。

注意：本机后板标示的电压必须与当地电网电压相符，使用与当地电压不符的电源电压，造成机器引起的火灾及其它各种事故，本公司一概不负责。

系统连接-----

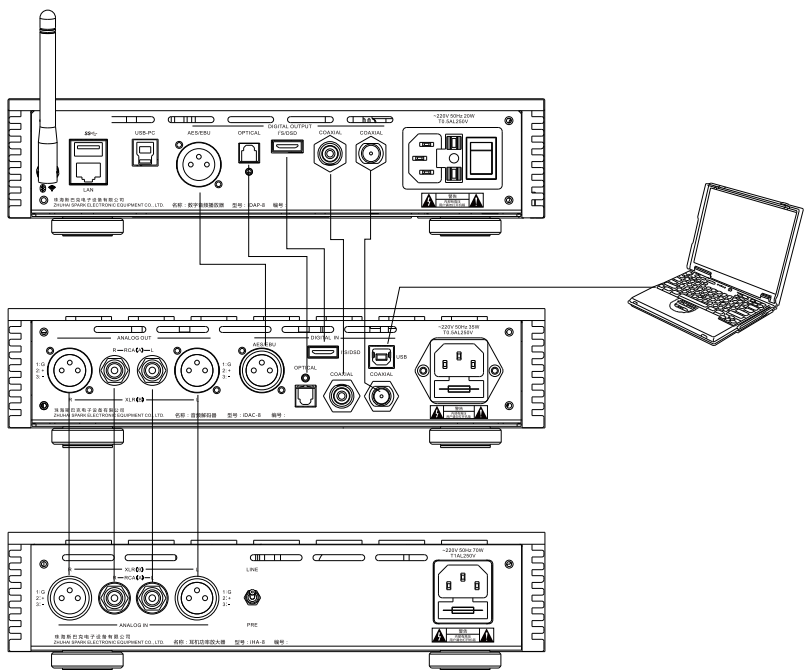
1. 连接电源线

请核对您所在地区的电网电压是否与本机后板上标示的电压相符,确认相符后,再接电源!

2. 连接音源设备

根据您的音源接口情况,可选择平衡输入(XLR)或非平衡输入(AUX)连接方式(需在面板“source”按键处做好选择),也可同时使用两种连接方式。

(1) 用音频信号线(非平衡RCA线)将本机的音频输入端子与其它音源设备(解码器或CD机等)的音频输出端子连接。便可轻松组建高音质的音频系统。如图所示：



3. 连接耳机

(1) 使用非平衡耳机

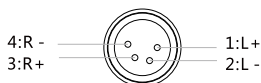
请将高音质耳机的6.35mm耳机插头插入到前面板的6.35SE耳机输出插座上。
 旋动音量旋钮，将音量调整至合适位置，便可乐享醉人的音乐；

(2) 使用4.4mm平衡耳机

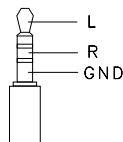
请将高音质耳机的4.4mm插头插入到前面板的4.4mm平衡耳机输出插座上，
 旋动音量旋钮，将音量调整至合适位置；

(3) 使用4针平衡耳机

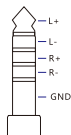
请将高音质耳机的4针插头插入到前面板的4针平衡耳机输出插座上（面板“8”），旋转音量旋钮，将音量调整至合适位置；



4针平衡耳机插座极性说明



6.35耳机插头极性说明



4.4mm 五极插头极性说明

注意：

- ◆ 如耳机插头为3.5mm，需用6.35/3.5mm耳机转换座。（耳机及转换座非本机附送）
- ◆ 收听音量和时间要适度，以防损伤您的听觉系统。
- ◆ 身处危险环境时，请不要使用耳机。
- ◆ 使用单声道耳机插头（TS插头），会造成机器内部短路，请不要使用此类耳机插头，以免损坏机器。

基本操作-----

1. 开机前请再次确认机器后板标示的电源电压是否与您所在地区的电网电压相符，确认系统中的各种连线是否正确。

1) 将本机后面板的 LINE/PRE 扭子开关手柄扭向LINE方向。

2) 将本机前面板的音量旋钮旋转到音量最小的位置。

3) 按下前面板的电源开关（POWER）键，电源接通，电源指示灯闪烁，本机进入开机延时状态。

4) 延时后电源指示灯常亮，本机进入正常工作状态。

注意：在耳机系统工作过程中，切勿插拔音频信号线，以免损坏本机和其他设备。

2. 确认正确连接后，打开所连接音源设备播放您喜欢的音乐，戴上耳机，将音量调至合适的位置，您便能乐享醉人的音乐。

安全注意事项-----

1. 使用前，请确认当地电网电压与机器后板标示的电源电压相符。

2. 长期不使用本机时请把电源插头拔掉，并妥善保管本机。

3. 搬运中注意轻拿轻放，避免损坏机器。

4. 下列情形本机可能会凝聚湿气（露水）：


*本机在刚打开暖气，有蒸气或高温的房间内；

*本机从寒冷的环境带进温暖的房间内；

*本机从凉爽的环境，如有空调的房间或车内，突然带到很热且湿气很重的地方。

如果机内凝聚湿气，将不能正常工作，请确认无湿气形成后再使用本机。

5. 小心触电！请勿擅自打开机盖，机器内部没有任何需要用户调整的部件。
6. 本机严禁遭水滴或水溅，机器上及周围不要放置诸如花瓶等装有液体的物品，以免引起触电或损坏机器。
7. 任何维修，只能由符合资格的维修人员进行。不要自行拆卸本机，非专业人员对本机的处理，容易造成本机的损坏。
8. 清洁本产品前，请拔出电源线。请用柔软、清洁的布擦拭主机外壳，请勿使用挥发性溶液或其它腐蚀性清洁剂。
10. 本机应放置平稳，使四只机脚受力均匀。
11. 不要将任何易燃物品放在本机上。
12. 阳光直射产品或高温会造成组件参数变化或损坏，请避免阳光直射或在高温下使用本产品。
13. 本机工作中机壳会发热，请勿将其它物品覆盖在本机上面，并保证本机周围有足够空间以保证通风良好。
14. 如果本机出现故障，请与星巴克公司经销商或市场营销部联系。

 本产品适用于海拔2000米及以下和非热带气候条件下使用。
电源插座周围应预留合适的空间，以便拔插电源插线。

一般故障处理-----

为了使设备能维持其卓越性能，请注意做好保养和正确操作。不正确的操作会导致误认为故障，如果本机有问题请检查下列事项。有时候问题可能出在其他设备上，请检查其他设备以及相关的连接线路，如果故障未被消除，请与星巴克公司经销商或市场营销部联系。

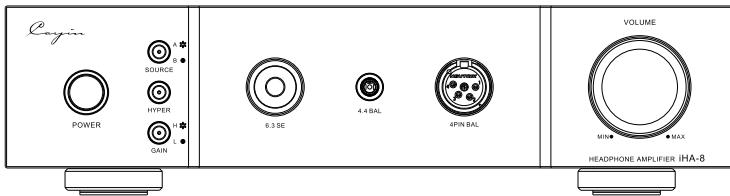
| 故障现象 | | 可能的原因 | 解决方法 |
|----------|--------|------------|----------------------------|
| 开机后无声音输出 | 电源指示灯亮 | 无信号输入 | 检查本机音源输入选择是否正确 检查音源是否正常 |
| | | 音频信号线没有连接好 | 重新连接音频信号线 |
| | | 耳机插头没插好 | 确保耳机插头可靠连接 |
| | | 音量旋钮处于最小状态 | 调节音量旋钮到合适位置 |
| 电源指示灯不亮 | 电源没有接通 | 检查供电电路及电源线 | |
| | 保险丝已断 | 更换相同规格的保险丝 | |

技术参数-----

| 参数 | 平衡输出 | 单端输出 | 测试条件 |
|--------|----------------------|----------------------|-----------------------|
| 额定输出功率 | 7700mW + 7700mW | 2500mW+2500mW | HYPER ON, 32Ω |
| 频率响应 | 10Hz-80kHz | 10Hz-80kHz | ±0.5dB |
| 分离度 | 103dB | 68dB | 1kHz, A计权 |
| 输出阻抗 | 0.4Ω | 0.2Ω | |
| 总谐波失真 | 0.002% (输出750mW时) | 0.004% (输出250mW时) | 1kHz, A计权, 32Ω |
| 信噪比 | 130dB | 127dB | HYPER ON, GAIN L, A计权 |
| 动态范围 | 130dB | 127dB | HYPER ON, GAIN L, A计权 |
| 最大消耗功率 | 70W | | |
| 整机尺寸 | 270*215*70mm(WxDxH) | | |
| 净重 | 约5.0Kg | | |



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.

Table of Contents

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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:

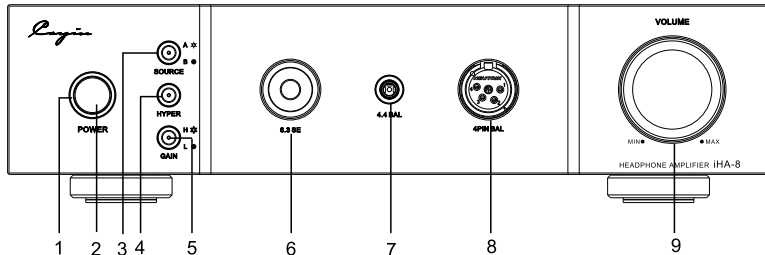
1. iHA-8 Headphone Amplifier x 1 unit
2. User Manual x 1 Piece
3. Replacement Fuse x 2 Pieces
4. Power Cord x 1 piece

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.

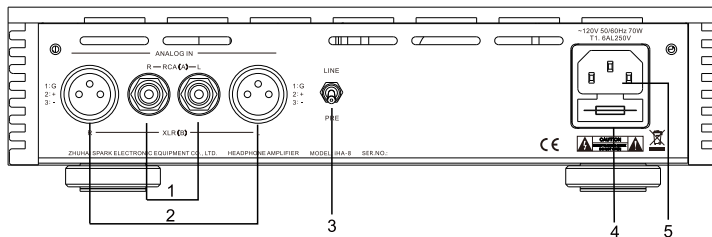
Front Panel Functional Description-----



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.

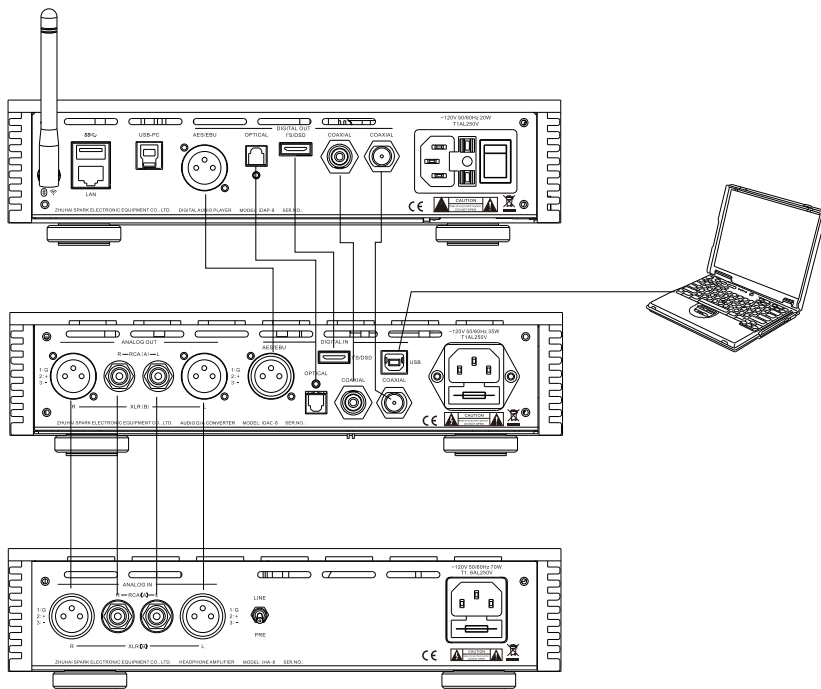
Rear Panel Functional Description-----



- 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

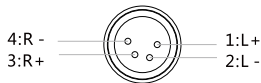
Connect the 6.35mm phone connector of your headphone to the 6.35mm headphone output on the front panel. Adjust the volume to an appropriate level before you enjoy music from the amplifier.

2. 4.4mm Balanced Headphones

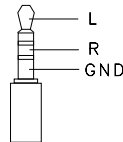
Connect the 4.4mm phone connector of your headphone to the 4.4mm headphone out on the front panel. Adjust the volume to an appropriate level before you enjoy music from the amplifier.

(3) 3.4 Pin XLR Balanced Headphones

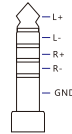
Connect the 4pin XLR connector of your headphone to the XLR headphone out on the front panel. Adjust the volume to an appropriate level before you enjoy music from the amplifier.



4-Pin XLR Balanced
Headphone Connector



6.35mm Headphone
Connector



4.4mm Headphone
Connector

Note:

- If your 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 headphone when you are in dangerous environment.
- Please do not use mono(TS) phone plug with this amplifier as this might cause serious damage such as 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 headphone 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 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 | | |

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