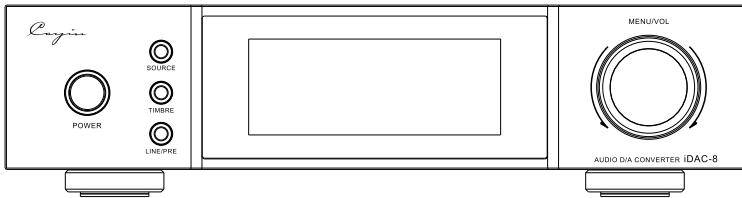




iDAC-8 音频解码器



使用说明书

非常感谢您使用 Cayin iDAC-8解码器。

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：

- ◆ 如果产品包装箱、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-----

请仔细检查包装箱有无摔伤、破损或湿迹。包装清单如下：

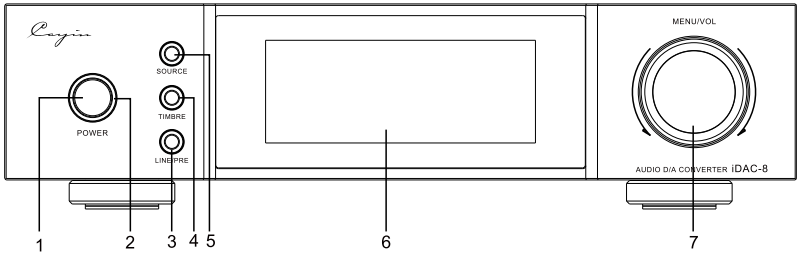
1. iDAC-8解码器	1台
2. 说明书	1本
3. 备用保险管	2只
4. USB 线	1根
5. 保修卡	1份
6. 电源线	1根

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。建议把包装和包装材料保存下来，方便以后装运使用。

本机特点-----

1. OLED点阵显示屏，直观清晰。
2. 支持USB Audio、I²S/DSD和多路其它数字音频输入。
3. 数字/模拟转换使用AKM公司的AK4191+2片AK4499EX芯片组合。
4. 电子管和晶体管双音色模式，单端和平衡输出模式均支持双音色。
5. 线路(LINE)和前级(PRE)双输出模式。
6. RCA单端和XLR平衡模拟音频输出接口，均支持线路和前级信号输出，可连接合并式功放和纯后级功放使用。
7. 高性能环形电源变压器和稳压电路。

前面板功能说明-----



前面板图

1、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。

2、电源指示灯

指示灯常亮，机器正常工作状态；

指示灯灭，机器关机状态。

3、线路输出/前级输出选择(Line/Pre)

重复按按键可循环切换：LINE OUT（线路输出）、PRE OUT（前级输出）

4、音色选择(TIMBRE)

输出音色选择，重复按按键可循环切换：“SOLID STATE”（晶体管电路音色）、“VACUUM TUBE”（电子管电路音色）。

*晶体管电路音色切换到电子管电路音色时，电子管预热约15秒。

5、音源输入选择（SOURCE）

选择输入音源按键。反复按按键可循环切换：USB AUDIO、I²S、AES/EBU、COAXIAL BNC、COAXIAL RCA、OPTICAL。

6、OLED显示屏

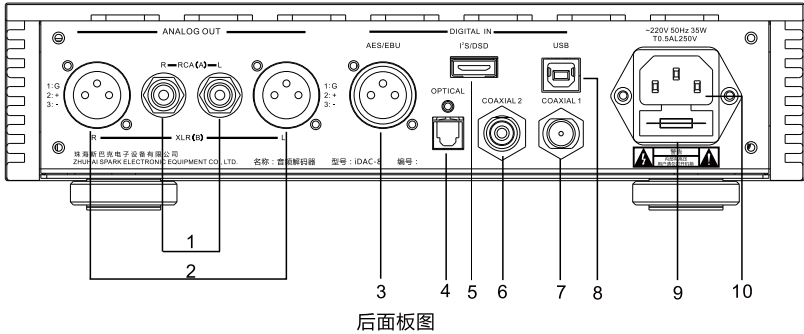
显示本机的工作状态。

7、菜单/音量旋钮（MENU/VOL）

向面板方向长按“MENU/VOL”键，进入菜单栏；

在PRE工作模式下，旋转“MENU/VOL”旋钮，进行音量调节。

后面板功能说明



后面板图

1、非平衡线路输出端子 (RCA)

用音频信号线将本机的非平衡线路输出端子与功放的非平衡模拟输入端子连接，请注意左右声道不要接反。

2、平衡线路输出端子 (XLR)

用平衡音频信号线将本机的平衡线路输出端子与功放的平衡模拟输入端子连接，请注意左右声道不要接反。

3、AES/EBU平衡数字输入端子(AES/EBU)

用平衡数字线缆将本机AES/EBU平衡数字输入端子与播放器AES/EBU输出端子连接。

4、光纤数字输入端子(OPTICAL)

用于光纤数字音频信号输入。

5、I²S数字输入端子(I²S)

用HDMI线将本机的HDMI-A口与具有I²S输出的设备(如iDAP-8播放器)的HDMI端口连接。

6、RCA同轴数字输入端子(COAXIAL)

用标准75Ω同轴信号线缆将本机的同轴数字输入端子与播放器同轴输出端子连接。

7、BNC同轴数字输入端子(COAXIAL)

用标准75Ω同轴信号线缆将本机的BNC同轴数字输入端子与播放器同轴输出端子连接。

8、USB AUDIO 数字输入端口

用本机附送的USB线将本机的USB端口与电脑的USB端口连接。

9、保险管 (FUSE)

如需更换，请使用相同规格的保险管。

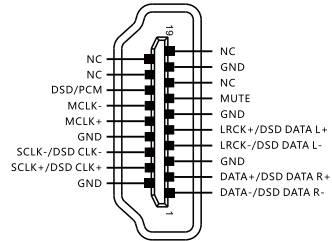
10、电源输入插座

交流电源由此输入。

I²S 接口定义

本机的I²S的物理接口采用标准的19针HDMI-A连接器,但引脚功能为本公司自定义,不兼容其它品牌的自定义接口,也不兼容标准的HDMI接口。
下面为本机HDMI连接器引脚定义：

Type-A

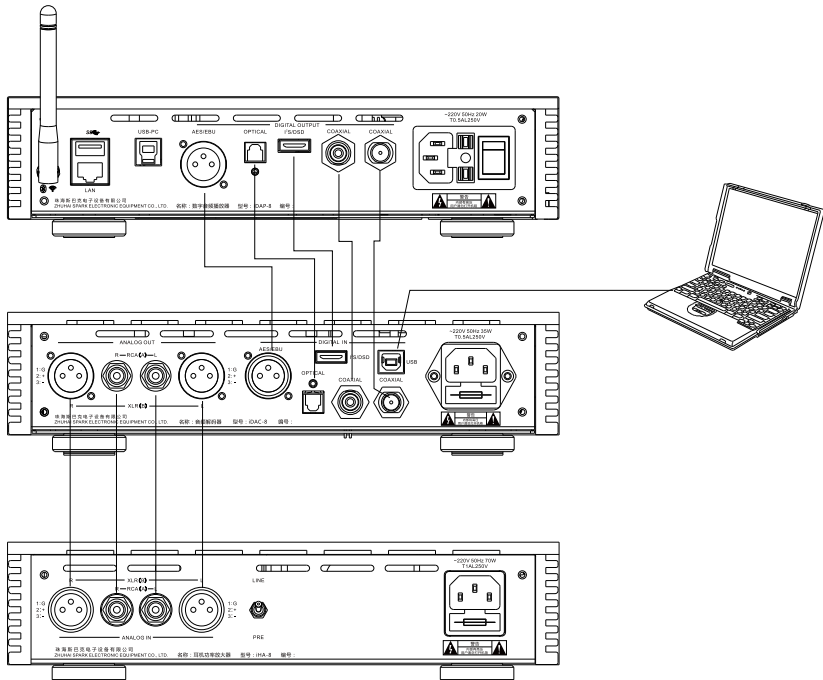


系统连接

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



连线图示范了本机与iDAP-8播放器、电脑和iHA-8高保真耳机功率放大器的音频线连接，如连接其它产品使用，您可参考本范例。

(1) 连接播放器，用标准75Ω同轴信号线缆，将播放器的同轴数字输出端子与本机的同轴数字输入端子连接；或者用光纤线缆将播放器的光纤数字信号输出端子与本机的光纤输入端子连接；或者用平衡数字线缆将播放器的平衡数字输出端子与本机的平衡数字输入端子连接；或者用HDMI线将本机的HDMI-A口与播放器的HDMI口连接；

(2) 连接电脑，用本机附送的USB线将本机的USB接口（B型）与电脑的USB接口（A型）连接，如果是台式电脑，必须使用电脑背面的USB接口；

(3) 连接耳机放大器，用平衡音频信号线将耳机放大器(如Cayin iHA-8)的平衡模拟输入端子与本机的平衡输出端子连接；或者用非平衡线将iHA-8的非平衡模拟输入端子与本机的非平衡模拟输出端子连接，注意左右声道不要接反。

注意:

- ◆在连接之前，请确认机器后板标示的电压是否与当地电网电压相符；
- ◆为避免耳机放大器出现大噪声可能导致机器损坏，请在连线前关闭各机器电源；
- ◆每次开机后，电子管需15秒左右的预热时间以达到稳定的工作状态，在这段时间内，模拟输出端子无信号输出。

3、安装驱动

使用本机的USB声卡需要在Windows电脑端安装本机的USB Audio驱动程序，

驱动下载地址：<http://cn.cayin.cn/download>。安装驱动步骤如下(以V5.62.0版驱动程序为例)：

- (1) 双击“Cayin USB Audio Driver V5.62.0.exe”运行驱动安装文件，信任程序所有操作，直至安装完成。
- (2) 安装完成后，可在电脑端的设备管理器界面看到本机名称“Cayin iDAC-8”。
- (3) 在电脑播放器的音频设置界面将“Cayin iDAC-8”选定为音频输出设备。
- (4) Windows10及以上系统需安装驱动程序,Mac OS X 10.6.3及以上系统无需安装驱动程序。

基本操作-----

1、开机

开机前请再次确认机器的后面板的电压是否与本地电网电压相符。按下面板上的电源开关(POWER)键，打开电源；再次按下电源开关则到关机状态。开机显示倒计时15秒，15秒后进入正常工作状态。

注意:

在您的音响系统工作时，切勿插拔信号线，USB线，以免损坏本机和其它设备。

2、音源选择

- ◆按面板上的“SOURCE”键可循环切换音源，根据需要可以选择“USB AUDIO”、“I²S/DSD”、“AES/EBU”、“COAXIAL BNC”、“COAXIAL RCA”或者“OPTICAL”
- ◆具有断电记忆功能，关机或断电后重开机可记住当前状态。

2.1、使用USB声卡

- 使用USB声卡前，请再次确认Windows电脑是否已安装本机USB驱动程序。如果没安装驱动程序，将无法使用本功能。
- 用USB线将USB接口（B型）与电脑的USB（A型）连接，再按面板上的“SOURCE”键，选择到“USB AUDIO”界面。
- 使用本功能后，显示屏实时显示歌曲的采样率。

2.2、使用IIS/DSD作为音源输入

- 本机的IIS/DSD接口采用标准的19针HDMI-A连接器，但是引脚功能为本司自定义，有可能不兼容其它品牌的HDMI接口，也不兼容标准的HDMI接口。使用前，请务必检查清楚设备和设备之间是否兼容。
- 按面板上的“SOURCE”键，切换到“IIS/DSD”界面。
- 使用本功能后，显示屏实时显示歌曲的采样率。

2.3、使用AES/EBU作为音源输入

- 采用AES/EBU线材连接好设备。
- 按面板上的“SOURCE”键，选择到“AES/EBU”界面。
- 使用本功能后，显示屏实时显示歌曲的采样率。

2.4、使用COAXIAL BNC作为音源输入

- 采用COAXIAL BNC线材连接好设备。
- 按面板上的“SOURCE”键，切换到“COAXIAL BNC”界面。
- 使用本功能后，显示屏实时显示歌曲的采样率。

2.5、使用COAXIAL RCA作为音源输入

- 采用COAXIAL RCA线材连接好设备。
- 按面板上的“SOURCE”键，切换到“COAXIAL RCA”界面。
- 使用本功能后，显示屏实时显示歌曲的采样率。

2.6、使用OPTICAL作为音源输入

- 采用光纤线连接好设备。
- 按面板上的“SOURCE”键，切换到“OPTICAL”界面。
- 使用本功能后，显示屏实时显示歌曲的采样率。

3、音色选择

3.1、选择电子管输出

- 按面板上的“TIMBRE”键选择到电子管输出，这时需要预热电子管，预热时间为15秒，15秒后进入电子管输出模式，显示屏显示“TUBE”图标。
- 带记忆功能。

3.2、选择晶体管输出

- 按面板上的“TIMBRE”键选择到晶体管输出，显示屏显示“TRANS”图标。
- 带记忆功能。

4、前级输出和线路输出选择

4.1、选择前级输出

- 按面板上的“LINE/PRE”键选择到前级输出，显示屏并显示“PRE OUT”图标。此时可以进行音量调节。
- 带记忆功能。

4.2、选择线路管输出

- 按面板上的“LINE/PRE”键选择到线路输出，显示屏显示“LINE OUT”图标。
- 带记忆功能。

5、音量调节

- 在前级输出状态下，左右扭动音量旋钮“VOL”可调节音量大小，调整幅度在0-100之间。
- 带记忆功能。

6、滤波器设置

长按面板上的“MENU”键调出滤波器设置界面，再短按“MENU”键可选择PCM滤波器设置和DSD滤波器设置。

6.1、PCM滤波器设置

- 当调出来的是PCM滤波器设置界面后，左右扭动音量旋钮进行滤波器选择。
- 可以选择“Sharp Roll-Off”、“Sharp Roll-Off”、“Short Delay Sharp Roll-Off”、“Short Delay Slow Roll-Off”、“Super Slow Roll-Off”和“Low Dispersion Short Delay”滤波器。
- 带记忆功能。

6.2、DSD滤波器设置

- 当调出来的是DSD滤波器设置界面后，左右扭动音量旋钮进行滤波器选择。
- 可以选择“Narrow Bandwidth”和“Wide Bandwidth”滤波器。
- 带记忆功能。

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。
- 9、本机应放置平稳，使四只机脚受力均匀。
- 10、不要将任何易燃物品放在本机上。
- 11、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。
- 12、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。
- 13、如果本机出现故障，请与斯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。

规格参数-----

参数名称		晶体管音色	电子管音色
输出电平	单端	2.2VRMS (LINE) 6.0VRMS (PRE)	2.2VRMS (LINE) 6.0VRMS (PRE)
	平衡	4.2VRMS (LINE) 12VRMS (PRE)	4.1VRMS (LINE) 10VRMS (PRE)
频率响应	单端	20-20kHz (± 0.1 dB, $F_s=192$ kHz)	20-20kHz (± 0.1 dB, $F_s=192$ kHz)
	平衡	20-50kHz (± 0.2 dB, $F_s=192$ kHz)	20-50kHz (± 0.2 dB, $F_s=192$ kHz)
总谐波失真 (A计权)	单端	0.0007%	0.05%
	平衡	0.0006%	0.8%
信噪比 (A计权)	单端	118 dB	110dB
	平衡	126 dB	126 dB
动态范 (A计权)	单端	120 dB	113 dB
	平衡	126dB	126 dB
串音衰 (A计权)	单端	-116dB	-105 dB
	平衡	-121 dB	-122 dB
注：以上参数在LINE OUT模式下测试			
USB输入	USB-B接口	PCM 16-32Bit, 44.1k-768kHz DSD64-DSD512 (Native模式), DSD64-DSD256 (DoP模式)	
I ² S输入	HDMI-A接口	PCM 16-32Bit, 44.1k-768kHz DSD64-DSD512	
SPDIF输入	AES同轴	PCM 16-24Bit, 44.1k-176.4kHz; DoP64	
	光纤接口	PCM 16-24Bit, 44.1k-192kHz; DoP64	
尺寸		270*215*70mm (含机脚, 不含旋钮、后板端子凸起)	
净重		约4.6kg	
输入电源		~220V 50Hz	
最大消耗功率		35W	

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，请与斯巴克公司经销商或市场营销部联系。

故障现象		可能的原因	解决的办法
开机后无声音输出	电源指示灯不亮	电源没有接通	检查供电电路及电源线是否与插座接触不良
		保险丝已断	更换相同规格的保险丝
	电源指示灯常亮	主界面无采样频率和格式类别	检查本机音源输入选择是否正确 检查音源是否正常工作
		数字信号线没有连接好	重新连接数字信号线
使用同轴输入时不能解码		同轴线缆与端子接触不良	重新接好同轴线缆
		同轴线缆不符合标准(75Ω)	换一线符合标准的同轴线缆
		没有同轴信号输入	检查音源是否有同轴信号输出
使用AES/EBU输入时不能解码		数字平衡线缆与端子接触不良	重新接好数字平衡线缆
		数字平衡线缆不符合标准(110Ω)	换一线符合标准的同轴线缆
		没有数字平衡信号输入	检查音源是否有数字平衡信号输出
使用光纤输入时不能解码		光纤线缆与端子耦合不良	重新接好光纤线缆
		没有光纤信号输入	检查音源是否有光纤信号输出
使用USB输入时声音出现异常		USB端口问题	换一个USB端口，如果是台式机，应该使用机器后板的USB端口
		电脑处于繁忙状态	减少正在运行的应用程序
		电脑硬件配置太低	如果可以的话，请升级电脑
连接USB线时，电脑无法识别设备		USB线不符合USB 2.0规范	更换符合USB 2.0规范的USB线
		未安装USB驱动程序	安装USB驱动程序
		USB驱动程序出现错误	重启电脑

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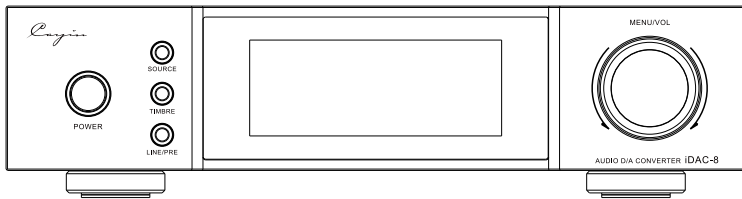
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重要说明：为珠海斯巴克电子设备有限公司注册商标！购买时请认清此标志，提防假冒！

V1.0_20240130

Cayin®

iDAC-8 HI-FI AUDIO D/A CONVERTER



User's Manual

We would like to express our sincere gratitude to you for selecting the Cayin iDAC-8 HIFI Audio D/A Converter. To assist you in comprehending its features, as well as becoming acquainted with its operation, we have prepared this manual. We highly recommend that all customers thoroughly review this manual before commencing usage of the device.

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Attention:

- ◆ Please make sure the serial number on the package, warranty card 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.
- ◆ Without prior permission from our company (Zhuhai Spark Electronic Equipment Co., LTD), any form of reproduction, transmission, distribution, or storage of the contents of this document is strictly prohibited.
- ◆ The user manual is a documentation of the product based on the specification at the time of print. Cayin reserves the right to change product specification without prior notice.

Package Content-----

Please inspect the product package before opening it to ensure it is free from any physical damage or water stains.

You should find the following items when opening the package:

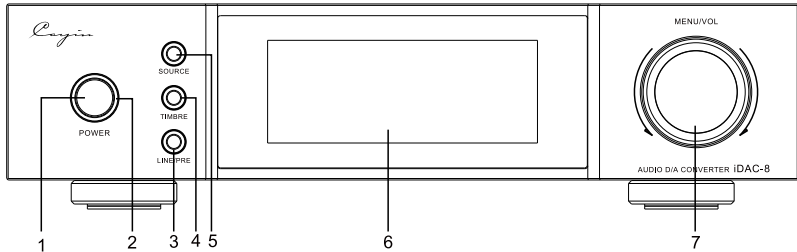
- 1.iDAC-8 HIFI Audio D/A Converter × 1 Unit
- 2.User Manual × 1 Piece
- 3.Replacement Fuse × 2 Pieces
- 4.USB Cable × 1 Piece
- 5.Warranty Card × 1 Piece
- 6.Power Cord × 1 Piece

If maintenance services are required, please complete the warranty card and submit it to the authorized dealer within two weeks or mail it back to our sales department. We will provide you with comprehensive and attentive after-sales service. It is recommended to save the packaging and packing materials for future shipment use.

Product Features-----

- ◆ OLED Dot Matrix display screen for a premium visual experience.
- ◆ High-performance toroidal power transformer and voltage regulation circuit.
- ◆ Digital/analog conversion with AKM's flagship AK4191 alongside two AK4499EX chips.
- ◆ Support USB Audio, I²S/ DSD, Coaxial, Optical and AES/EBU Digital Inputs.
- ◆ Equipped with Single-ended RCA and Balanced XLR output. Both support timbre selection between Vacuum Tube and Solid-state.
- ◆ Selectable between LINE Output and PRE Output (Preamplification Output) Mode.
- ◆ Both single-ended RCA and balanced XLR support LINE and PRE outputs, both of which can be connected to integrated amplifiers and power amplifiers for use.

Front Panel Functional Description -----



1. POWER On/Off:

Press down the button to power on the DAC. Press it again, and the button will return to its original position, powering off the DAC.

2. Power Indicator:

Indicates the working status of the DAC

- Indicator flashing: in the process of initialization.
- Indicator consistently on: device in normal working condition.

3. Line Out/Pre Out:

Press to select between Line Out and Pre Out.

4. Timbre Selection:

Select between Solid State and Vacuum Tube Mode.

*It takes approximately 15 seconds for the vacuum tubes to warm up to desirable working condition.

5. Source:

Press to select input source. Press repeatedly to cycle through the following options: USB AUDIO, I²S, AES/EBU, COAXIAL BNC, COAXIAL RCA and OPTICAL.

6. OLED Display:

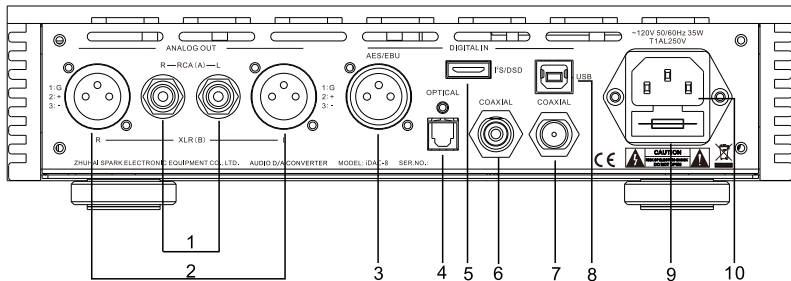
Display the current working status of the DAC.

7. MENU/VOLUME

Press and hold the "MENU/VOL" key to enter the menu;

In PRE working mode, rotate the "MENU/VOL" knob to adjust the volume.

Rear Panel Functional Description -----



1. Analog Out

Single-ended Connector (RCA): Connect the single-ended output of the DAC to the single-ended input of an amplifier with a pair of RCA cable. Please make sure the left and right channels are connected correctly.

2. Balanced Connector (XLR):

Connect the balanced output of the DAC to the balanced input of an amplifier with a pair of XLR cable. Please make sure the left and right channels are connected correctly.

3. Digital In

AES/EBU: Connect the AES/EBU digital input of the DAC to the AES/EBU digital audio output of a DAP with a standard 110ohm AES/EBU (XLR) cable.

4. OPT (Optical):

Connect the optical input of the DAC to the optical digital output of a DAP with a Toslink (optical) cable.

5. I²S:

Use a Type A HDMI cable to connect the HDMI-A port with the HDMI port of an audio device that supports I²S.

6. COAXIAL 2:

Connect the RCA coaxial input of the DAC to the Coaxial digital output of a DAP with a standard 75ohm coaxial cable.

7. COAXIAL 1:

Connect the RCA coaxial input of the DAC to the Coaxial digital output of a DAP with a standard 75ohm coaxial cable.

8. USB AUDIO:

Connect the USB port of the DAC to the USB port of a computer with a USB cable (provided in the product package).

9. Power Supply Modules

FUSE: If replacement is required, please use a fuse of the same specification.

10. Power Input Socket:

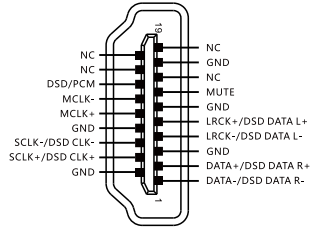
Connect to AC power supply.

I²S Interface Definition-----

The I²S connector on this unit adopts the standard 19-pin HDMI-A connector, however, the pinout is customized by our company for better compatibility with Cayin's Transports and DAPs that feature I²S. We cannot guarantee that it is compatible with I²S connectors of the other brands, nor standard HDMI connectors.

The following is the definition of the HDMI connector pinout for this unit:

Type-A



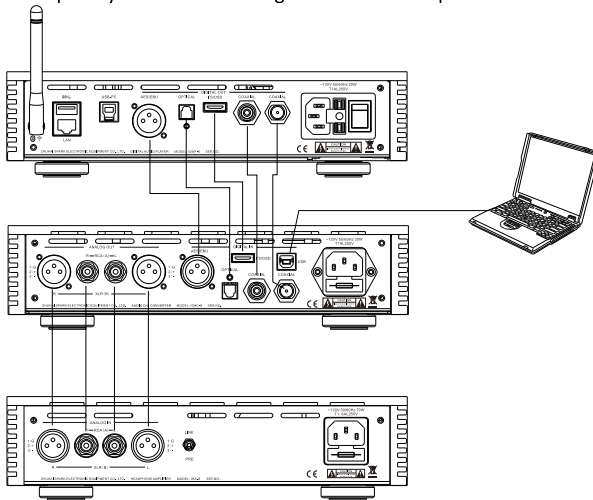
Setup of the machine -----

1. Connect to the power source

Please verify that the AC voltage marked on the rear panel of the device matches with the power supply voltage in your area, after confirming that, connect the power cord to the device's power socket.

2. Connect to audio source

The connection diagram demonstrates the audio cable connection of this unit to an iDAP-8, a computer, and an iHA-8 headphone amplifier as a complete system. You may refer to this example if you are connecting iDAC-8 to other products.



- (1) Connect the coaxial input of the iDAC-8 to the coaxial output of iDAP-8 with a standard 75 ohm coaxial cable. You can either connect the optical input of the iDAC-8 to the optical output of iDAP-8 with a Toslink (Optical) cable. Alternatively, you can connect the AES/EBU input of the iDAC-8 to the AES/EBU output of the iDAP-8 with a standard 110 ohm AES/EBU (XLR) cable. In addition to the above methods, you can also use a type-A HDMI cable to connect iDAP-8 and iDAC-8.
- (2) Connect to a computer: Connect the USB port of the iDAC-8 (Type-B) to the USB port (Type-A) of a computer with a USB cable (provided in the product package).
- (3) Connect to headphone amplifier: use a pair of XLR3 cable to connect the balanced audio output of the iDAC-8 to the balanced audio input of the iHA-8. Alternatively, use a pair of RCA cable to connect the single-ended audio output of the iDAC-8 to the single-ended audio input of the iHA-8, please make sure the left and right channel is connected correctly.

Attention

- Please make sure that the AC voltage of the device matches with your local power supply voltage.
- To avoid damage to your headphone amplifier and headphones due to high volume of noise during connection, please turn off the power of each unit before connecting.
- It takes approximately 15 seconds for the vacuum tubes to warm up to desirable working condition, the DAC will be muted during this period of time and thus there will be no audio output from the DAC.
- Please make sure all cables in the audio system were correctly connected before turning it on.

3. Install driver

If you prefer to use the iDAC-8 with a windows-based computer, you will need to install the USB audio driver on your computer before you can use the DAC as an external USB soundcard for your computer. You can install the driver from the following url: <https://en.cayin.cn/download>

- (1) Please follow the procedure to install the driver:
- (2) Double click the "Cayin USB Audio Driver.exe" to activate the driver installation process.
- (3) Click the corresponding buttons according to the program's prompts until the installation is complete.
- (4) Once the driver has installed successfully, you should be able to see the name "Cayin iDAC-8" at the Device Manager interface of your computer.
- (5) Select "Cayin iDAC-8" as audio output device in your computer playback software.

Note: The USB audio driver is only needed for Windows 7/8/8.1/10. No USB audio driver required for macOS.

Basic Operation-----

1. Turn on the device.

Please make sure the AC voltage of your local power supply match the voltage of the DAC.

Turn on the iDAC-8 by pressing down the POWER button on the front panel, the power indicator will start to flash and the display screen will light up.

The initialization process will take approximately 15 seconds, after which the power indicator will stop blinking and remain illuminated.

Note: Please do not remove any audio cable or USB cable when the DAC is running, as this may damage the amplifier and other devices.

2. Source Selection

- To select input source, press the SOURCE button repeatedly to cycle through the following options: USB AUDIO, I2S, AES/EBU, COAXIAL BNC, COAXIAL RCA, OPTICAL. The screen will display the current input source.
- When you turn off the DAC, it remembers the previous settings. When you turn it on again, it will revert to the previously selected source.

2.1 Using USB decoding

- (1) Before you proceed with USB decoding, please confirm again that appropriate driver has been installed in your computer (if needed), otherwise, USB decoding might not work properly.
- (2) Connect the USB port of the DAC (Type-B) to the USB port (USB-A) of the computer with a USB cable (provided in the product package). Press the SOURCE button repeatedly until USB AUDIO is selected.
- (3) Once the USB AUDIO is selected, the screen will display the bit rate and sampling frequency for your reference.

Please setup your playback software such as Foobar2000 in your computer correctly, otherwise the system might not be able to output the unaltered raw bitstream to the DAC for decoding, you may need to install a plug-in for foobar2000 such as ASIO or WASAPI in order to do this.

2.2 Using I²S Digital Input

- After the HDMI cable is connected, press the SOURCE button on the front panel to select I²S input.
- Once the I²S is selected, the screen will display the bit rate and sampling frequency for your reference.

2.3 Using Optical, Coaxial and AES/EBU input

- Once the Optical/coaxial/AES/EBU cable is connected, you can select among OPTICAL, COAXIAL BNC, COAXIAL RCA and AES/EBU by press the SOURCE button repeatedly.
- Once the DAC is locked into certain digital connection, the screen will display the bit rate and sampling frequency for your reference.

3. Timbre Selection

3.1 Select Vacuum Tube Mode

- Press the "TIMBRE" button on the panel to select the tube mode, it takes approximately 15 seconds for tubes to be warmed up, after which it will enter the tube output mode as the display screen will show the "TUBE" icon.
- The present options will be stored upon shutdown.

3.2. Select Solid State Mode

- Press the "TIMBRE" button on the panel to select the transistor output mode, after which the display screen will show the "TRANS" icon.
- The present options will be stored upon shutdown.

4. Preamp Output and Line Output Selection

4.1 Select Preamp Output

- Press the "LINE/ PRE" button on the panel to select the preamp output, the display screen will show the "PREOUT" icon. The volume can be adjusted at this time.
- The present options will be stored upon shutdown.

4.2. Selection of Line Outputs

- Press the "LINE/ PRE" button on the panel to select the line output, the display screen will show the "LINE OUT" icon.
- The present options will be stored upon shutdown.

5. Volume Control

- Under the state of preamp output, rotate the "VOL" volume knob to adjust the volume level, the adjustment range is between 0-100.
- The present options will be stored upon shutdown.

6. Filter Settings

Long press the "MENU" key on the panel to access the filter setting interface, then short press the "MENU" key to select PCM filter and DSD filter.

6.1 .PCM Filter Settings

- Once the PCM Filter screen is displayed, rotate the Volume knob left or right to select the filter for PCM.
- You can choose between "Sharp Roll- Off ", "Sharp Roll-Off", "Short Delay Sharp Roll-Off", "Short Delay Slow Roll-Off ", "Super Slow Roll-Off" and "Low Dispersion Short Delay" filters.
- The present options will be stored upon shutdown.

6.2 .DSD Filter Settings

- Once the DSD Filter screen is displayed, rotate the volume knob left or right to select the filter for DSD.
- You can select between "Narrow Bandwidth" and "Wide Bandwidth" filters.
- The present options will be stored upon shutdown.

Safety Notice -----

1. Please make sure the AC voltage of your local power supply match the voltage of the device. Cayin is not responsible for accidents such as damage or fire caused by incorrect input voltage.
2. Unplug the power cord if you are not going to use the DAC for an extended period of time, and take proper care of the machine.
3. Please be careful when transporting in order to avoid damage to the machine.
4. If moisture presents inside the iDAC-8, it may not function properly, please do not operate the machine until the internal moisture is cleaned.

Moisture could be caused due to the following reasons:

- *Device is in a room where the heater has just been turned on;
 - *Moving the device from a cold environment to a warm environment;
 - *The machine is moved from a cool environment, such as an air-conditioned room or car, to a hot and humid place.
 - *Opening the cover may expose you to electric shock or other hazards.
5. This machine is strictly prohibited from water drops or splashing, do not place objects containing liquids on or around the machine to avoid electric shock or damage to the machine.
 6. Repairs should only be carried out by qualified service personnel. Do not disassemble the unit by yourself, as handling of the unit by non-professionals may cause further damage to the unit.
 7. Before cleaning this product, please unplug the power cord. Wipe the case with a soft, clean cloth, do not use volatile solutions or other corrosive cleaning solutions.
 8. The machine should be placed at a flat surface, make sure all four feet are evenly stressed.
 9. Do not place any flammable material on or around the DAC.
 10. High temperature may cause component parameter changes, under extreme condition may even damage the unit, please avoid using the product under direct sunlight or high temperature.
 11. The machine will become hot during operation, please keep the DAC at a well-ventilated environment and do not cover the DAC with other items.
 12. Please Contact your nearest authorized dealer for after-Sales service if the machine is not working properly.



This product is designed to work at altitude of 2000m or below and in non-tropical climate.

Leave sufficient space around the power socket for unplugging the power cord.

Specification-----

Specification		Solid State	Vacuum Tube
Output Level	RCA	2.2VRMS (LINE) 6.0VRMS (PRE)	2.2VRMS (LINE) 6.0VRMS (PRE)
	XLR	4.2VRMS (LINE) 12VRMS (PRE)	4.1VRMS (LINE) 10VRMS (PRE)
Frequency Respond	RCA	20-20kHz (± 0.1 dB, $F_s=192$ kHz) 20-50kHz (± 0.2 dB, $F_s=192$ kHz)	20-20kHz (± 0.1 dB, $F_s=192$ kHz) 20-50kHz (± 0.2 dB, $F_s=192$ kHz)
	XLR		
THD+N (A-Weighted)	RCA	0.0007%	0.05%
	XLR	0.0006%	0.8%
S/N (A-Weighted)	RCA	118 dB	110dB
	XLR	126 dB	126 dB
Dynamic range (A-Weighted)	RCA	120 dB	113 dB
	XLR	126dB	126 dB
Attenuation-to-crosstalk ratio (A-Weighted)	RCA	-116dB	-105 dB
	XLR	-121 dB	-122 dB
Note: The above parameters are tested in LINE OUT mode			
USB Input	USB-B Port	PCM 16-32Bit, 44.1k-768kHz DSD64-DSD512 (Native Mode), DSD64-DSD256 (DoP Mode)	
I ² S Input	HDMI-A Port	PCM 16-32Bit, 44.1k-768kHz DSD64-DSD512	
SPDIF Input	XLR Coaxial	PCM 16-24Bit, 44.1k-192kHz; DoP64	
	Optical Port	PCM 16-24Bit, 44.1k-176.4kHz; DoP64	
Dimension		270*215*70mm (feet included; knobs, rear panel socket bumps not included)	
Weight		Approximately 4.6kg	
Input Power		~220V 50Hz	
Maximum Power Consumption		35W	

Troubleshooting-----

To ensure optimal performance of the machine, it is essential to adhere to proper maintenance procedures and operate it correctly. Incorrect operation may lead to abnormal functioning of the machine. Should any issues arise with the unit, please perform the following checks. It is possible that the problem may originate from other equipment; therefore, please also inspect the other devices and relevant connections. If the problem persists, kindly reach out to your nearest authorized dealer or Cayin's marketing department for further inspection and assistance.

Problem		Cause	Solution
No sound output after power on	Power Indicator is OFF	Power is not connected	Make sure power cable is properly connected to a power outlet
		The fuse is blown	Replacement of fuses of the same specification
	Power Indicator is ON	No signal input	Make sure the correct source was selected from the front panel. Check whether the source equipment is functioning properly.
		Audio cable is not connected properly	Connect audio cable properly
Decoding is not working properly when using coaxial input		Poor contact between coaxial cable and socket	Reconnect the coaxial cable
		Coaxial cables not complying with standards (75 Ω)	Replace the coaxial cable with compliant ones
		No coaxial signal input	Check whether the audio source has coaxial signal output
Decoding is not working properly when using AES/EBU input		Poor contact between AES/EBU cable and socket	Reconnect the AES/EBU cable
		AES/EBU cable not complying with standards (110 Ω)	Replace the coaxial cable with a compliant cable.
		No digital signal input	Check whether the audio source has AES/EBU signal output
Decoding is not working properly when using optical input		Poor contact between optical cable and socket	Reconnect the optical cable
		No optical signal input	Check whether the audio source has optical signal output
Abnormal audio output when USB Audio is used		USB port problems	Change the USB port. If you are using a desktop computer, you should use the USB port on the rear panel of the PC
		Computer is busy	Optimize applications running in the background of your computer during audio playback
		Computer processing capabilities or hardware failed to meet audio playback requirements	Upgrade the computer if possible
The computer does not recognize the device when the USB cable is connected		USB cable not complying with USB 2.0 standards	Replace the USB cable with a proper USB2.0 cable
		USB driver has not been installed correctly	Reinstall USB driver
		USB driver error	Restart computer