H3A

USER MANUAL
说 明 书

敬爱的用户

欢迎购买山灵H3A DAC耳机放大器。谨让我们借此机会向您表示诚挚的谢意。

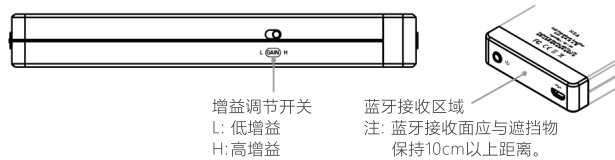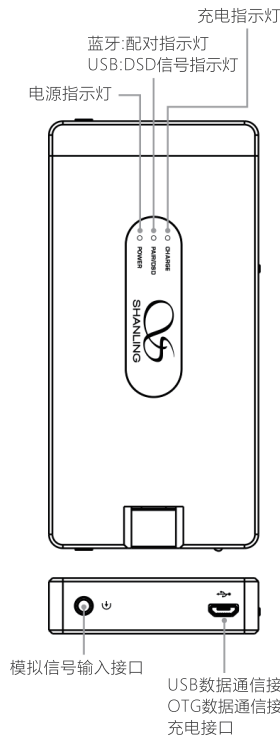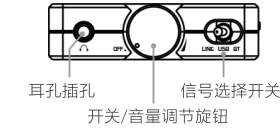我们向您建议：在动手操作之前，请仔细阅读此使用说明书，并注意存放好以备随时参考。

产品简介

本产品是一款高性能的便携式DAC耳机放大器，可连接各种音频编解码器及手机对其音频信号进行处理及放大，输出可驱动各类耳机，从而起到提升功率及改善音质的作用。

安全指示

1. 不可自行开启本机进行维修或改造，产品不设有用户自行检修的零件，本机的维修须请具备专业资格的人员进行。开启机器及随意改造内部电路会令检修人员难以维修本机，而且会对机器造成性能或质量的影响。
2. 请不要在特别热、冷、多尘或潮湿的环境中使用本产品。
3. 充电时机器有轻微发热，属正常现象。
4. 使用时不要让产品摔落，或与硬物摩擦撞击，否则会导致播放器表面磨花、电池脱落，数据丢失或其它硬件损坏。不要剧烈震动或撞击，防止不正确使用而损伤本产品。
5. 调调节适当音量欣赏音乐，以免损伤您的听觉和音响系统，在插入耳机前，请先将音量调小，不要长时间使用耳机。
6. 不要使用化学剂或清洁剂清洁本产品，这样会损坏产品表面。
7. 请尽量避免边充电边使用。
8. 当长期没有使用本产品时，需要对产品定期充电，以保证电池寿命。
9. 电池更换不当会有爆炸危险，只能用同类型或等效类型的电池。
10. 电池不得暴露在诸如日照、火烤或类似灼热环境中。

部件名称

增益调节开关
L: 低增益
H: 高增益

蓝牙接收区域
注：蓝牙接收面应与遮挡物保持10cm以上距离。

耳孔插孔
开关/音量调节旋钮
信号选择开关
充电指示灯
蓝牙:配对指示灯
USB:DSD信号指示灯
电源指示灯

模拟信号输入接口
USB数据通信接口
OTG数据通信接口
充电接口

操作说明

开机/关机

1. 开机：请先将移动播放设备连接到本机模拟输入接口上，耳机连接到耳机插孔上，然后将［开关/音量］旋钮顺时针方向旋动直到听到"塔"的一声对为打开本机电源，此时机器上的"POWER"电源指示灯点亮。
2. 关机：将［开关/音量］旋钮向逆时针方向旋动直到听到"塔"的一声对为关闭本机电源，此时机器上的"POWER"电源指示灯熄灭。

注:开机与音量调节可复用，打开机器时请按顺时针方向慢慢旋大音量，以免伤伤您的听觉和音响系统。

音量调节

当本机电源打开后，旋动［开关/音量］旋钮，可对耳机音量进行大小调节。顺时针方向旋动为增加音量，逆时针方向旋动为减小音量。

耳机输出接口

标准3.5mm耳机接口

模拟输入接口

将信号源切换到"LINE"状态，连接外部音源或移动播放设备。
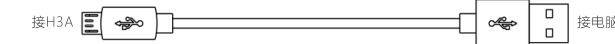
增益调节

在听音状态下，可以根据音源的大小及耳机阻抗不同选择不同的增益模式。

USB充电

连接适配器或USB接口即可充电，充电时"CHARGE"指示灯点亮为红色，充满后指示灯熄灭。

注:当"POWER"电源指示灯闪亮时，表示机器已处于低电量状态，请及时充电。
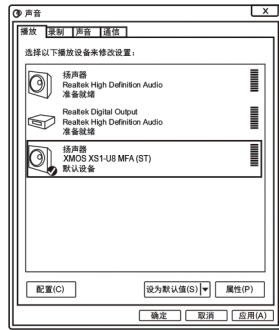
USB数据通信

1. 将USB线从电脑连接到本机上

接H3A ⟷ 接电脑

2. 打开机器电源并将信号源切换到"USB"状态。
3. 安装"USB驱动"至电脑上。

USB驱动程序下载方式:

请登录官网 http://www.shanling.com 进入H3A产品页进行相关下载。

4. 在电脑的"声音⚙"选项右键选择"播放设备"，并勾选"扬声器XMOS XS1-U8 MFA (ST)"为默认设备，如右图示:
5. 使用Windows或Mac电脑上的播放软件播放音乐。

注: 关于DSD
本机支持最新的DoP技术，也就是用PCM的框架传输DSD信号，并按照DSD格式解码。DSD传输同样使用USB接口，用户可以下载DSD格式的音乐，Windows和Mac下均有相应的播放软件。

OTG数据通信

1. 将OTG-USB线从H3A连接到手机上。

接H3A ⟷ 接手机

2. 打开机器并使用手机上的播放软件即可播放音乐。

注: 手机必须支持OTG功能方可使用。

使用蓝牙功能

1. 将信号源切换到"BT"状态。
2. 此时本机蓝牙会一直处于可以被搜索状态，打开手机或iPad等搜索蓝牙设备。
3. 在搜索到的设备中选择"SHANLING H3"。
4. 设备连接好后，使用播放软件播放音乐即可。

注: 本机支持APT-X音频传输格式，当用户手机支持APT-X功能时，此传输方式会自动打开，给用户高品质音频体验。

常见问题

1. 没有声音输出，或者声音有噪声: 请检查音频输入或耳机输出接口是否没有完全插到位，或是否接反。
2. 耳机有杂音: 耳机输出接口有可能接触不牢靠，请重新拔插复位。
3. 无法输出: 请尝试使用原装或匹配的音频连接线，并确保输出正常。
4. 不能正常与耳机联机播放音乐: 请检查音乐USB线是否损坏，连接是否妥当。

规格与参数

电源(适配器)	DC5V/1A 或 USB接口
频 率 响 应	20Hz～20kHz
总 谐 波 失 真	<0.007%
输 出 功 率	210mW @ 32Ω 30mW @ 300Ω
电池充电时间	1A适配器供电，充满时间大约6H（关机状态） USB接口，充满时间大约10H（关机状态）
电池使用时间	大于8个小时
供 电 方 式	内置可充电锂聚合物电池，容量2100mAH
推荐耳机阻抗	16～300Ω
体积宽×深×高	60×123×16mm
净 重	约 160g

随机附件

说明书:	1份	OTG-USB线	1根
保修卡:	1张	3.5双声道音频连接线:	1根
USB线:	1根		

扫一扫关注官方微信   扫一扫关注官方微博

SHANLING

Dear Customer

Thank you for buying H3A DAC Headphone Amplifier. We would like to take this opportunity to express our sincere appreciation to you. We recommend you to read this user's manual carefully before operating the unit and keep it available for reference when needed.
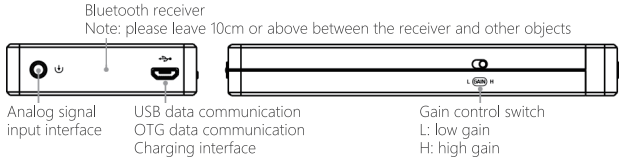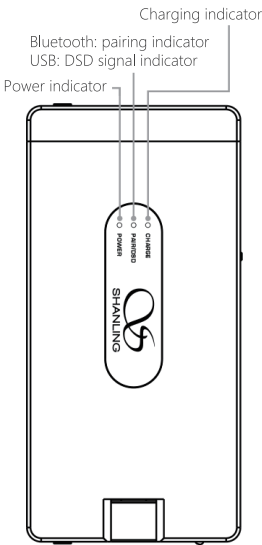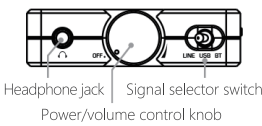
Product Introduction

This product is a high-performance portable DAC headphone amplifier, which can be connected to various audio players and mobile phone to process and amplify audio signals, output and drive various headphones, enhancing power and improving sound quality.

Security Instructions

1. Don't disassemble this device without professional guidance. There are no user serviceable parts accompanying with the product. Disassembly and modification of the internal circuitry can lead to difficulty on after-sale service, or affecting performance and reliability of the device.
2. Don't use under extreme hot, cold, dusty or damp environment.
3. It's normal to find the device slightly heats when charging.
4. Avoid falling or friction or collision with hard objects in case of surface scratches, battery disconnection, data loss or other hardware damages. Avoid violent shake or impact in case of possible damages.
5. Properly adjust the volume to protect your hearing and sound system. Turn down before plugging earphone into the device. Do not using earphone for too long.
6. Never use chemicals or detergents to clean the unit, which may cause surface damage.
7. Avoid using it during charging.

8. Charge it at regular intervals to maintainbattery if it's not used for long.
9. Improper battery replacement may cause explosion, and only the battery in the same or equivalent model number can be used.

Parts Identification

Headphone jack   Signal selector switch

Power/volume control knob

Charging indicator

Bluetooth: pairing indicator
USB: DSD signal indicator

Power indicator

Operation Instructions

Bluetooth receiver
Note: please leave 10cm or above between the receiver and other objects.

Analog signal   USB data communication   Gain control switch
input interface   OTG data communication   L: low gain
                    Charging interface   H: high gain

Turn on/Turn off

1. Turn on: Connect the mobile player to the analog input interface of the unit, connect the headphone to the headphone jack, then turn the [power/volume] knob in clockwise direction until the "dah" sound is heard, and the unit is turned on and the "POWER" indicator will be on.
2. Turn off: Turn the [power/volume] knob in counterclockwise direction until the "dah" sound is heard, and the unit is turned off and the "POWER" indicator will be off.
Note: When turning on the unit, please turn the knob slowly in clockwise direction to adjust volume in case of damaging your hearing and audio system.

Volume control

After turning on the unit, turn the [power/volume] knob to adjust the headphone volume, in clockwise direction to increase and in counterclockwise direction to decrease.

Headphone output interface

Standard 3.5mm headphone interface.

Analog input interface

Switch the signal source to "LINE" and connect to external audio source or mobile player.

Gain control

In listening mode, select different gain modes according to audio source and headphone impedance.

USB charging

Connect to the adapter or USB interface to charge. The "CHARGE" indicator turns on in red during charging and is off when charging is completed.
Note: When "Power" indicator flashes, it indicates low battery . Please charge timely.

USB data communication

1. Connect the unit to PC with USB cable.

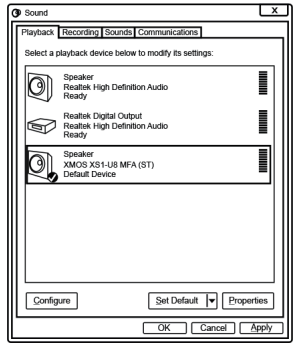H3A   PC

2. Turn on the unit and switch the signal source to "USB" mode.
3. Install "USB driver" in PC.

How to download the USB driver:

Enter the H3A product page on www.shanling.com to download the USB driver.
4. In "sound♦" option, right click to select "player", tick "speaker XMOS XS1-U8 MFA (ST)" as default player, as shown on the right:
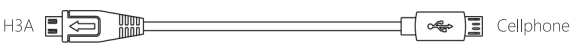5. Use Windows or Mac player software to play music.

Note: About DSD
This unit supports the latest DoP technology, i.e. using PCM framework to transmit DSD signal and decode in DSD format. DSD transmission also uses USB interface. You can download music in DSD format. Both Windows and Mac have the corresponding player software.

OTG data communication

1. Connect the cellphone to H3A via the OTG-USB cable.

H3A   Cellphone

2. Turn on the unit and play music on the cellphone.
Note: your cellphone must support OTG function.

How to enable Bluetooth

1. Switch signal source to "BT" mode.
2. Bluetooth of this unit can be searched at this moment. Use your mobile phone or iPad to search Bluetooth devices.
3. Select "SHANLING H3" in the list of Bluetooth devices searched.
4. After connection, use player software to play music.
Note: The unit supports APT-X audio transmission protocol. When your mobile phone supports APT-X, the transmission mode will be enabled automatically to provide high-quality audio experience.

Troubleshooting

1. No audio output or noisy audio output: Check audio input or the connection of headphone output interface.
2. Headphone noise: Bad contact of headphone output interface. Pull out and plug in again.
3. Output failure: Try to use the original or proper audio connecting line, and ensure normal output.
4. Failure to connect to PC to play music: Check the condition and connection of USB cable.

Specifications & Parameters

Power (Adapter):	DC5V/2A or USB interface
Frequency response:	20Hz~20kHz
Total harmonic distortion:	<0.007%
Output power:	210mW @ 32Ω 30mW @ 300Ω
Battery charge time:	power supply from 2A adapter, about 6h (power off) power supply from USB interface, about 10h (power off)
Battery play time:	more than 8h
Power supply:	built-in rechargeable lithium polymer battery, capacity 2100mAH
Net weight:	about 160g
Recommended headphone impedance:	16 ~ 300Ω
Dimension (Width × Depth × Height):	60×123×16mm

Accompanying Accessories

User's manual:	1	OTG-USB cable:	1
Warranty card:	1	3.5 dual-channel audio connecting line:	1
USB cable:	1		