



# D2R



## 使用说明书 | USER MANUAL

<http://www.smsl-audio.com/>

本说明书的内容可能会随版本更改, 如有变动, 恕不另行通知

The contents of this manual may be changed with the edition, and are subject to change without notice.

Ver 1.1

# 安全注意事项

注意：

为防电击，请勿打开机盖(或后盖)。  
本机内部无使用者可以维修的部件。  
请委托有资格的技术人员进行维修。



注 意  
触电危险，  
请勿打开。



等边三角形中有箭头闪电标号的图形表示警告使用者在产品内有非绝缘的“危险电压”，可能会对人体造成很大的电击危险。



等边三角形中有感叹号的图形表示警告使用者该设备在操作与维护(维修)方面应严格按照所附设备说明书。



仅适用于海拔2000m以下地区安全使用。

注意：为了完全切断本机的电源，请从墙上插座中拔出插头。电源插头用于完全中断机器的电源供应。

本说明书内容如有更新，恕不另行通知。若您使用的产品功能与说明书不一致时，请以产品为准！

# 特点

- 使用罗姆旗舰DAC芯片BD34301EKV, 并且全面优化使其性能, 使其THD+N低至-117dB;
- USB使用XMOS XU-316, 真正的32bit USB方案, PCM最高支持到768kHz, DSD支持到DSD512;
- 全新CK-03时钟处理电路, 以达到超低的时钟抖动使得光纤同轴的时钟抖动与USB一样优秀;
- 定制低噪声箭猪线性电源;
- 特别设计的分立元件稳压电源和多个低噪声稳压电源, 为模拟电路提供低噪声电源;
- 高通最新蓝牙芯片支持SBC,AAC,aptX,aptX HD,LDAC;
- 高品质镀金输入输出连接端子;
- 全新设计的高品质旋钮;
- 使用钢化玻璃显示面板, 更高的透光率, 更长的使用寿命;
- 配备遥控器和全功能遥控;
- 日本音频协会(JAS)Hi-Res认证。

# 技术参数

输入方式.....	USB/光纤/同轴/I2S/蓝牙/AES/EBU		
输出方式.....	单端线路/平衡线路		
输出幅度.....	平衡线路	5.1Vrms(可调音量)	
.....	单端线路	2.6Vrms(可调音量)	
THD+N .....	0.00014% (-117dB)		
动态范围.....	平衡线路	129dB	
	单端线路	125dB	
信噪比.....	平衡线路	129dB	
	单端线路	124dB	
输出阻抗.....	平衡线路	200Ω	
	单端线路	100Ω	
USB传输方式.....	异步传输		
USB兼容性 .....	Windows 7 / 8 / 8.1 / 10 / 11, Mac OSX, Linux		
位深.....	USB	1bit, 16~32bit	
	光纤/同轴	1bit, 16~24bit	
采样率.....	USB	PCM	44.1~768kHz
		DSD	2.8224~22.5792MHz
	光纤/同轴	PCM	44.1~192kHz
蓝牙规格.....	5.1(支持SBC,AAC,aptX,aptX HD,LDAC)		
消耗功率.....	5W		
待机功耗.....	<0.5W		
体积.....	280x235.5x43mm(WxHxD)		
重量.....	3.2kg/7.05lbs		

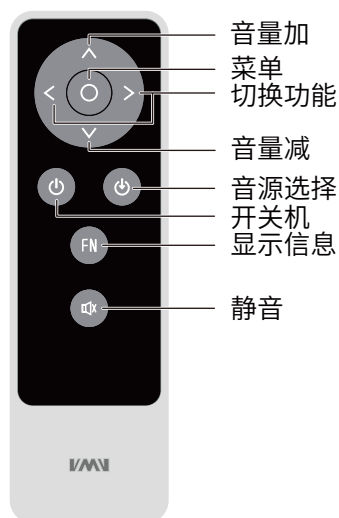
规格时有变更，恕不另行通知。

# 关于遥控器

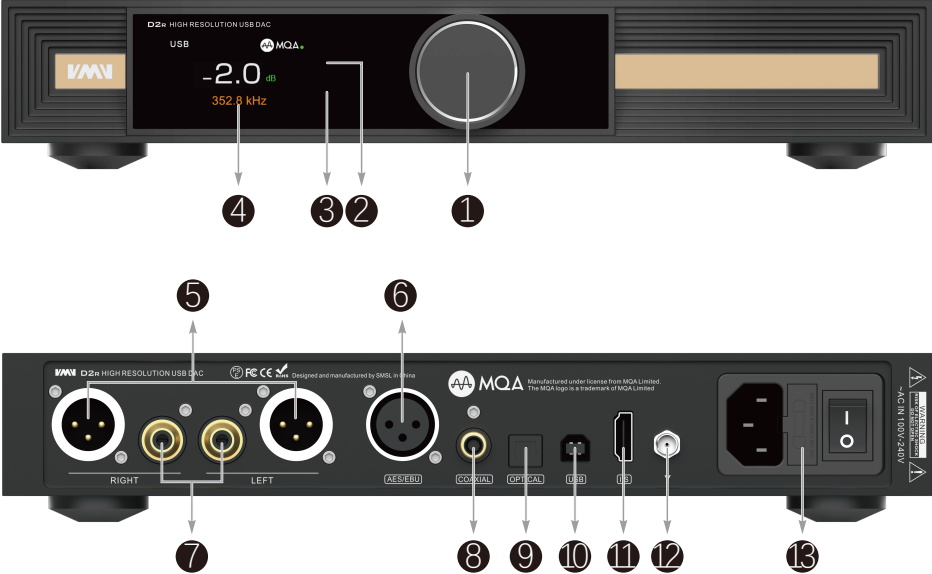
如果遥控器距离本机很近时操作仍无效，请用新电池更换。

如果要长时间不使用遥控器，请取出遥控器的电池。

按照电池处置的地方性法规处置废旧电池。



# 部件介绍



- |          |                        |
|----------|------------------------|
| 1. 功能旋钮  | 8. 同轴输入                |
| 2. 红外接收窗 | 9. 光纤输入                |
| 3. 指示灯   | 10. USB输入              |
| 4. 显示屏   | 11. I <sup>2</sup> S输入 |
| 5. XLR输出 | 12. 蓝牙天线               |
| 6. AES输入 | 13. 电源输入 (100~240V AC) |
| 7. RCA输出 |                        |

# 蓝牙操作说明

本产品配备了**蓝牙按键**,就是遥控器上的**FN按键**,  
这个按键的功能包括:

**短按:** 直接切换到蓝牙输入,如果蓝牙失去连接,则为重新连接;

**长按:** 断开当前设备,允许配对其它设备

- **连接:** 将输入源切换至蓝牙,打开手机蓝牙功能,搜索“**VMV D2r**”,搜索到后点击配对连接,当手机显示“已连接”则已连接成功。
- **重连:** 在使用蓝牙过程中,如果失去连接,例如:外出,然后回来,有些手机不会自动重新连接,在这个时候,**短按遥控器的蓝牙按键(FN)**就可以重新连接。
- **连接新设备: 长按遥控器的蓝牙按键(FN)。**在清除配对后,部分手机可能会出现无法再搜索到"VMV D2r",此时需要将手机保存的蓝牙设备"VMV D2r"删除掉,然后再搜索配对。

# 关于MQA

MQA (Master Quality Authenticated) 是一项屡获殊荣的英国技术, 是一种兼有极高的采样率和足够小的文件体积的高解析音频编码技术。采用MQA技术, 可以接收并解码MQA音频, 提供母带级别的声音。

有关更多信息, 请访问<https://www.mqa.co.uk/how-it-works>

## MQA文件播放

- 此机的USB、光纤、同轴支持MQA解码!
- 此机的MQA播放不要求使用特殊的播放软件, 例如foobar2000, Audirvanaplus 只要支持ASIO或者WASAPI的音频输出就可以了, 并且在播放MQA音频时, 最好将电脑的音量调到最大, 以使得电脑的音频输出是最佳状态。
- 在播放MQA文件时, 显示屏显示的采样率为音频原始采样率。



MQA 和声波标志是MQA Limited的注册商标。©2016

## 播放MQA-CD注意事项

- 必须确认所播放的是一张真正的MQA-CD;
- 确认CD播放器所输出的光纤或者同轴信号是未经处理的源码。



# 功能介绍

## ■ INPUTS (输入方式)

- USB (USB输入)
- BLUETOOTH (蓝牙输入)
- OPTICAL (光纤输入)
- COAXIAL (同轴输入)
- AES/EBU (AES输入)
- I<sup>2</sup>S(HDMI) (I<sup>2</sup>S输入)

注意:I<sup>2</sup>S接口并非真正的HDMI接口,它只是使用HDMI线来传输,因此它不能连接真正的HDMI接口。

## ■ OUTPUTS (输出方式)

- ALL LINE OUT (全部输出)
- BALANCED (平衡输出)
- UNBALANCED (非平衡输出)

## ■ PCM FILTER (PCM滤波器)

- SLOW ROLL-OFF (缓慢滚降)
- SHARP ROLL-OFF (快速滚降)

## ■ DSD FILTER (DSD滤波器)

- 13K CUTOFF (13KHZ频率截止)
- 26K CUTOFF (26KHZ频率截止)
- 52K CUTOFF (52KHZ频率截止)

## ■ SOUND COLOR (音色)

- LOW OSR+HPC ON
- LOW OSR+HPC OFF
- HIGH LOW OSR+HPC ON
- HIGH LOW OSR+HPC OFF

## ■ PRE MODE(前级模式)

PRE MODE为输出接口的音量调节功能开关：

- VARIABLE:           输出接口音量是受控的。
- FIXED:             输出接口音量是固定的。

## ■ FN KEY FOR (FN按键作用)

- OUTPUTS           (输出选择)
- BLUETOOTH       (切换到蓝牙输入)
- PHASE             (相位模式)

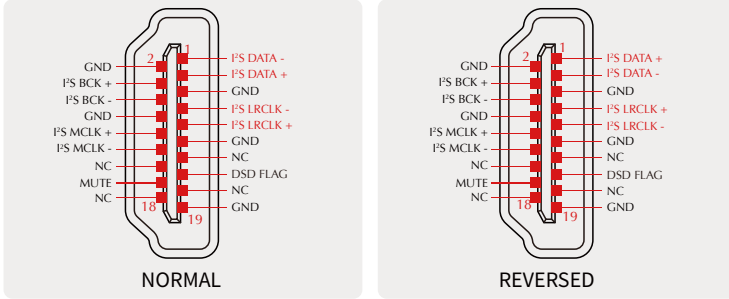
## ■ I2S DSD CHANNEL(DSD声道设置)

- DSDL = PCM DATA (DSD左声道和PCM的数据引脚共用)(默认)
- DSDL = PCM LRCK(DSD左声道和PCM的LRCK引脚共用)

注:在使用I2S接口播放DSD音频时,如果发现左右声道不正确,则可以使用这个选项来纠正。

## ■ I<sup>2</sup>S MODE(I<sup>2</sup>S模式)

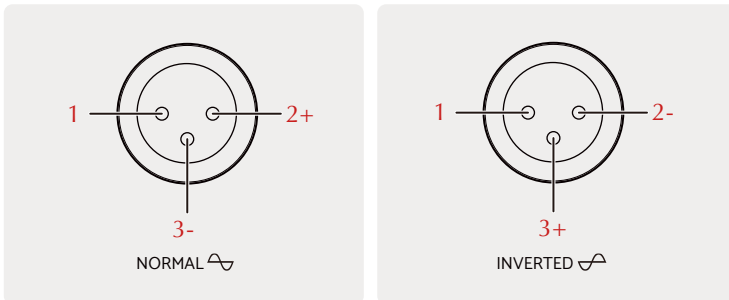
- NORMAL (正常, PS AUDIO格式)
- REVERSED (反相, DATA和LRCK反相)



注: 这个选项用于匹配不同的I<sup>2</sup>S接口标准, 使用前请检查信号源的接口定义。

## ■ AUDIO PHASE

- NORMAL (2+, 3-)
- INVERTED (2-, 3+)



## ■ DIMMER (自动熄屏)

- 5秒 ~ 60秒

(范围5秒 - 60秒, 设置后, 屏会在这个时间内自动熄灭, 遥控或者旋钮任意操作屏幕会重新点亮。这样可以很大程度减少光污染, 提升听音环境的舒适性!)

## ■ BRIGHTNESS (显示屏亮度设置)

- LEVEL 1 ~ LEVEL 6

## ■ RESET (系统复位)

- 在蓝牙输入时, 长按旋钮中键, 系统只会重置蓝牙配对状态;
- 在其它输入时, 长按旋钮中键, 系统清除所有设定, 包括蓝牙。



# Safety notes

## CAUTION:

TO REDUCE THE RISK OF ELECTRIC SHOCK,  
DO NOT REMOVE COVER(OR BACK).



The lightning flash with arrowhead symbol, with in an equilateral triangle, is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.



Safe use only under elevation 2000m.

## WARNING:

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE  
THIS APPLIANCE TO RAIN OR MOISTURE.

The contents of this manual are updated without prior notice. If the function of the product you are using is inconsistent with the instructions, the function of the product shall prevail!

# Features

- Use Rohm's flagship DAC chip BD34301EKV, and fully optimize its performance to make its THD+N as low as -117dB;
- USB uses XMOS XU-316, a real 32bit USB solution, PCM supports up to 768kHz, and DSD supports up to DSD512
- The all-new CK-03 clock processing circuit achieves ultra-low clock jitter, making the clock jitter of fiber coax as excellent as USB;
- Customized low noise porcupine linear power supply;
- The specially designed discrete component stabilized power supply and multiple low-noise stabilized power supplies provide low-noise power supply for analog circuits;
- Qualcomm's latest Bluetooth chip supports SBC, AAC, aptX, aptX HD, LDAC;
- High-quality gold-plated input and output connection terminals;
- Newly designed high-quality knobs;
- Use tempered glass display panel, higher light transmittance, longer service life;
- Equipped with remote control and full function remote control.
- Japan Audio Society (JAS) Hi-Res certified.

# Specification

Input.....	USB/Optical/Coaxial/I2S/Bluetooth/AES/EBU		
Output.....	RCA/XLR		
Output Level.....	XLR		5.1Vrms(Vol variable)
.....	RCA		2.6Vrms(Vol variable)
THD+N.....	0.00014% (-117dB)		
Dynamic range.....	XLR		129dB
	RCA		125dB
SNR.....	XLR		129dB
	RCA		124dB
Output impedance.....	XLR		200Ω
	RCA		100Ω
USB transmission.....	Asynchronization		
USB compatibility .....	Windows 7 / 8 / 8.1 / 10 / 11, Mac OSX, Linux		
Bit depth.....	USB		1bit, 16~32bit
	Optical/Coaxial		b1it, 16~24bit
Sampling rate.....	USB	PCM	44.1~768kHz
		DSD	2.8224~22.5792MHz
	Optical/Coaxial	PCM	44.1~192kHz
Bluetooth specification.....	5.1(Supports SBC,AAC,aptX,aptX HD,LDAC)		
Power consumption.....	.5W		
Standby power.....	<0.5W		
Size.....	.280x235.5x43mm(WxHxD)		
Weight.....	3.2kg/7.05lbs		

Specifications are subject to change without notice.

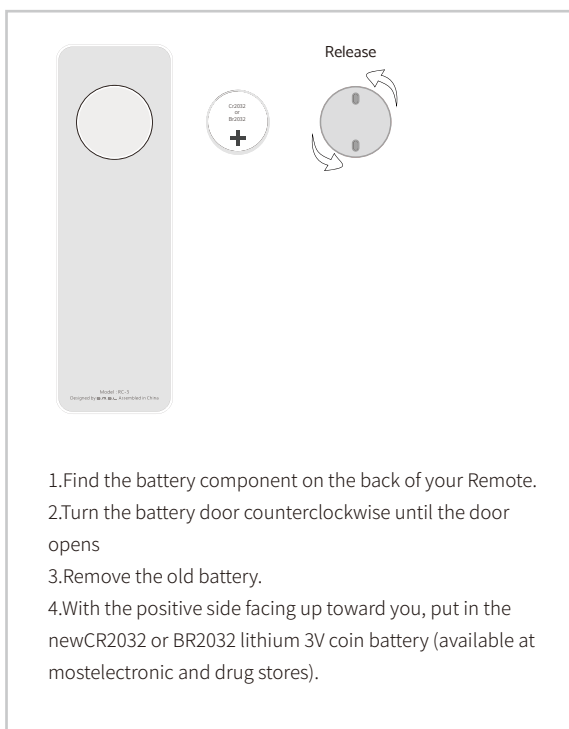
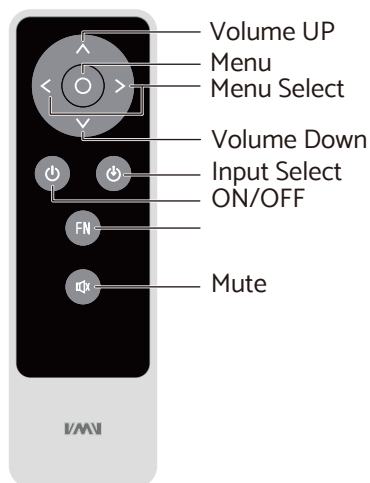


# Remote Control

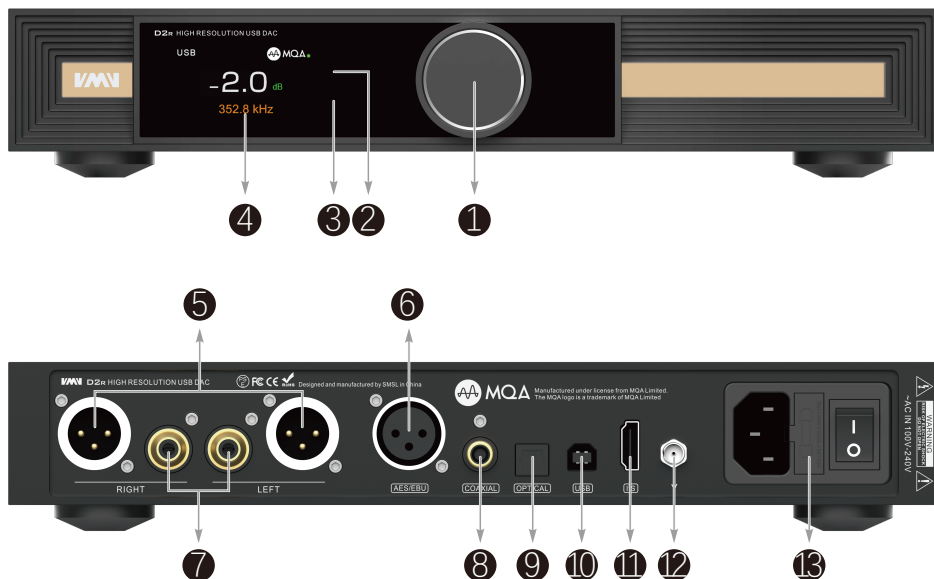
Install CR2032 or BR2032 lithium 3V coin battery as instructions

When using the remote control, point it toward the remote control signal receiver on the main unit from a distance of 5 m (16 ft) or less. Do not place obstructions between the main unit and the remote control.

The remote control might not work if the remote control signal receiver on the unit is exposed to direct sunlight or bright light. If this occurs, try moving the unit. Beware that use of this remote control could cause the unintentional operation of other devices that can be controlled by infra.



# Functions



- |                        |                            |
|------------------------|----------------------------|
| 1. Multi-function knob | 8. Coaxial input           |
| 2. Remote window       | 9. Optical input           |
| 3. Indicator light     | 10. USB input              |
| 4. Display             | 11. I <sup>2</sup> S input |
| 5. XLR output          | 12. Bluetooth antenna      |
| 6. AES input           | 13. AC IN (100V-24V AC)    |
| 7. RCA output          |                            |

# Bluetooth operating instructions

This product is equipped with a **Bluetooth button**, which is the **FN button** on the remote control. The functions of this button include:

- **Short press:** Switch directly to Bluetooth input, if Bluetooth loses connection, it is a reconnect;
- **Long press:** Disconnect the current device and allow pairing with other devices.

## Connection:

- Step 1: Switch the input source in the SETTING MENU or press the Bluetooth button of the remote;
- Step 2: Turn on the Bluetooth function of the mobile phone, search for **"VMV D2r"**, and tap to pairing. When the mobile phone displays "connected", it has been successfully connected.

## Re-connection:

When you had lost the connection with the D2r, for example, going out, and back home, some phones will not re-connect the D2r if the D2r has not been re-boot, so you can **press the Bluetooth button (FN)** on the remote to Re-connect.

**Clear pairing:** Long press the **"Bluetooth" button(FN)** on the remote control. After clearing the pairing, some phones may no longer be able to search for "VMV D2r". In this case, you need to delete the Bluetooth device "VMV D2r" which saved in the phone, and then search and pairing again.


# About MQA

MQA (Master Quality Authenticated) is an award-winning British technology that delivers the sound of the original master recording. The master MQA file is fully authenticated and is small enough to stream or download. Includes MQA technology, which enables you to playback MQA audio files and streams, delivering the sound of the original master recording.

Visit How it works <https://www.mqa.co.uk/how-it-works> for more information.

## MQA files playback

- D2R supports MQA decoding with USB, optical fiber and coaxial!
- D2R's MQA playback does not require the use of special playback software, such as foobar2000, Audirvanaplus only needs to support ASIO or WASAPI audio output, and when playing MQA audio, it is best to adjust the volume of the computer to the maximum, so that the audio output of the computer is in the best condition.
- When playing an MQA file, the sampling rate of the original master recording is displayed.

 **MQA** and the Sound Wave Device are registered trade marks of MQA Limited. © 2016

## Notes on playing MQA-CD

- Please make sure that what is being played is a genuine MQA-CD.
- Verify that the optical or coaxial signal output of the CD player is an unprocessed source code.

# Instructions

## ■ INPUTS

- USB
- BLUETOOTH
- OPTICAL
- COAXIAL
- AES/EBU
- I<sup>2</sup>S(HDMI)

Note: The I<sup>2</sup>S interface is not a real HDMI interface. It just uses the HDMI cable to transmit it, so it cannot connect the real HDMI interface.

## ■ OUTPUTS

- ALL LINE OUT
- BALANCED
- UNBALANCED

## ■ PCM FILTER

- SLOW ROLL-OFF
- SHARP ROLL-OFF

## ■ DSD FILTER

- 13K CUTOFF
- 26K CUTOFF
- 52K CUTOFF

## ■ SOUND COLOR

- LOW OSR+HPC ON
- LOW OSR+HPC OFF
- HIGH LOW OSR+HPC ON
- HIGH LOW OSR+HPC OFF

## ■ PRE MODE

PRE MODE is the volume adjustment function switch for the output interface.

- VARIABLE: The output interface volume is controlled.
- FIXED: The output interface volume is fixed.

## ■ FN KEY FOR

- OUTPUTS
- BLUETOOTH
- PHASE

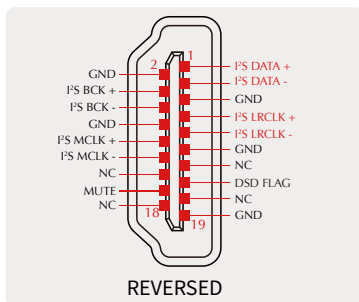
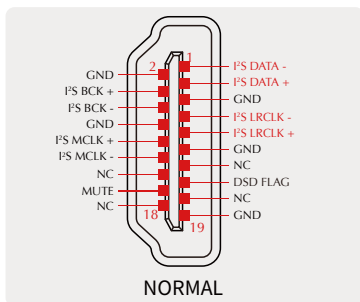
## ■ I2S DSD CHANNEL

- DSDL = PCM DATA(The DSD left channel using the PCM DATA pin)
- DSDL = PCM LRCK(The DSD left channel using the PCM LRCK pin)

Note: When using the I<sup>2</sup>S input to streaming DSD audio, if you find that the left and right channels are incorrect, you can use this option to correct it.

## I<sup>2</sup>S MODE

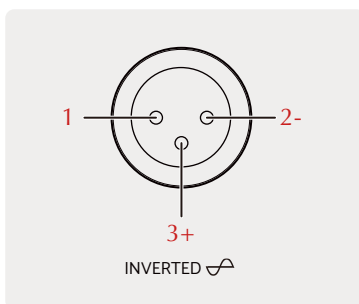
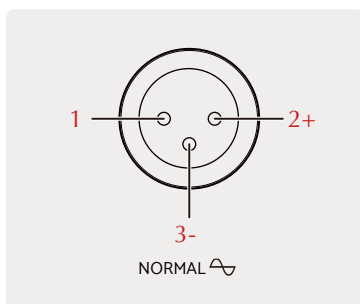
- NORMAL(NORMAL, PS AUDIO FORMAT)
- REVERSED(INVERTED, DATA AND LRCK INVERTED)



Note: This option is used to match different I<sup>2</sup>S interface standards, please check the interface definition of the signal source before use.

## AUDIO PHASE

- NORMAL (2+,3-)
- INVERTED (2-,3+)



## ■ DIMMER

- 5 second ~ 60 second

(The range is 5 seconds-60 seconds. After setting, the screen will automatically go off within this time, and the screen will re-light up if you operate the remote control or the knob at any time.)

## ■ BRIGHTNESS

- LEVEL 1 ~ LEVEL 6

## ■ RESET

- During Bluetooth input, long press the middle button of the knob, the system will only reset the Bluetooth pairing status;
- During other input, long press the middle button of the knob, the system will clear all settings, including Bluetooth.



# 保修条款

## 一、服务期限

佛山双木三林科技有限公司承诺产品的良好品质，产品自售出之后7天内正常使用情况下出现故障，客户可以选择退货或者保修(不影响二次销售才可退货)。正常使用一年内出现故障可以免费保修。

二、购买日期以销售商开出的购机发票或收据日期为准，网购可以交易截图为准。

## 三、有以下情况都不能享受“三包”服务

- 一切人为因素损坏，包括非正常工作环境下使用或不按照说明书使用；
- 用户私自拆机、改装、维修；
- 使用非指定或许可的配件造成损坏的；
- 机身的QC或保修贴损毁；
- 不能出示有效购机凭证；
- 不属于本公司产品。

## 四、保修方式为送修

此条款只适于中国大陆，其它地区请参考当地销售代理商的规定和国家法规。

# Warranty Terms

## 1.The Term of Service

Foshan Shuangmusanlin Technology Co., Ltd promises to offer good-quality products. If the product is broken in 7 days after purchasing when you use it normally, you can choose to send it back for return, replacement or repairing (only the product does not affect the second sales can be returned ). Repairing for free in one year if you use it normally.

2.Date of purchase is in accordance with the date on invoice or receipt used by seller, and if you buy it on line, you can show the screenshot of trade.

3.If an inappropriate usage causes the unit damaged, the warranty will be void. As below.

- All damages by inappropriate use, including using it under non-normal working environment or without following the instructions.
- Dismantling, refitting, repairing by user in private.
- Causing damage by using some fittings instead of the designative or accredited ones.
- Cannot provide credible proof of purchase.

4.Sending it back to our company for repairing.

5.Contact your S.M.S.L Audio reseller for a return or replacement.