



# **与山-9** PRD 使用说明书



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

# 安全注意事项

- 请将本音响系统安装在通风良好、阴凉、干燥、干净的位置,远离直射阳光热源 、振动、灰尘、潮湿或寒冷。
- 只能使用本机指定的电压。使用高于指定数值的电压很危险,而且可能导致火灾,损坏本机或造成人身伤害。对于使用高于指定电压造成的任何损害,我司将不负任何责任。
- 不要试图自行改造或修理本机。如果需要任何服务,请与销售或者我司客服人员联系。不管有任何理由,都没有打开机壳的必要。
- 如果打算长时间不使用本机(比如度假时),请从墙壁交流电源插座上断开电源线的连接。

## 重要提示:

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。

# 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
  - 1.一切人为因素损坏,包括非正常工作环境下使用或不按照说明书使用。
  - 2.用户私自拆机、改装、维修。
  - 3.使用非指定或许可的配件造成损坏的。
  - 4.机身的OC或保修贴损毁。
  - 5.不能出示有效购机凭证。
  - 6.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。

# 产品特点

- USB和SPDIF均支持 MQA 解码功能,并且支持MQA-CD;
- 使用美国ESS公司最新高端ES9039MSPRO D/A芯片,并且使用了全部8个通道, 总共使用了多达11个OPA1612A运算放大器;
- USB使用XMOS XU-316,真正的32bit USB方案,支持DoP和原生DSD, PCM最高支持到768kHz,DSD支持到DSD512;
- · 全新自主研发的CK-03时钟处理电路,大大降低时钟抖动;
- USB、光纤、同轴支持DSD传输,同轴、光纤支持DOP64;
- 使用钢化玻璃显示面板,更高的透光率,更长的使用寿命;
- 内置带屏蔽,低噪声电源处理,同时提高电源效率,功耗更低;
- 特别设计的分立元件线性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;
- 最新蓝牙支持LDAC, APTX/HD, SBC, AAC!
- 高品质镀金输入输出连接端子;
- 1.9吋的液晶显示屏;
- 日本音频协会(JAS)Hi-Res认证;
- 配备谣控器和全功能谣控。

# 技术参数

输出方式     单端线路/平衡线路       线路输出幅度     平衡线路     5.2Vrm       单端线路     2.5Vrm       THD+N     0.00005%(-125dB)(UN-WTD	S	
单端线路 2.5Vrm THD+N0.00005%(-125dB)(UN-WTD	-	
THD+N	S	
· · · · · · · · · · · · · · · · · · ·		
124 JD/VLD	1)	
动态范围134dB(XLR	2)	
128dB(RCA	١)	
信噪比	()	
128dB(RCA	١)	
USB传输方式USB2.0异步传输	ì	
USB兼容性Windows 7 / 8 / 8.1 / 10 / 11(需要驱动	1)	
Mac OSX10.6以上、Linux(不需要驱动	i)	
MQA decoderUSB / 光纤 / 同轴	±	
MQA-CD decoder光纤 / 同轴	±	
采样率与位深:		
USB PCM 44.1~768kHz(32bit	:)	
DSD 2.8224~22.5792MHz (1bit	)	
光纤/同轴 44.1~192kHz(24bit	)	
DoP DoP256(USB),DoP64(光纤/同轴	i)	
蓝牙规格:		
LDAC	.)	
aptX-HD24bit/48 kHz_576kbp	S	
aptX16bit/44.1 kHz_352kbp	S	
SBC16bit/44.1 kHz_328kbp	S	
AAC16bit/44.1 kHz_320kbp	S	
消耗功率<10W		
待机功耗<0.5V	V	
特机功耗<0.5V 体积		

# 温馨提示

## 固件及驱动下载:

http://www.smsl-audio.com/cn/download.asp



# 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。

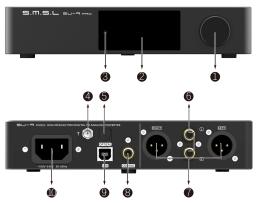
# 遥控器的使用



# 注意

遥控器请使用2节7号(AAA)电池

# 部件介绍



- 功能旋钮\*
- 4 蓝牙天线\*\*
- 7 平衡线路输出 100 电源输入
- 2 显示屏5 光纤输入
- \_\_\_\_\_
- 8 同轴输入
- 3 红外接收窗
- 6 单端线路输出
- 9 USB输入

## 功能旋钮\*

- 旋钮: 音量加减,菜单切换,功能选择。
- 按键: 短按,进入菜单,确认;长按,退出菜单,开关机。

## 蓝牙操作说明 \*\*

- 连接: 将输入源切换至蓝牙,打开手机蓝牙功能,搜索"SMSL SU-9 PRO",搜索 到后点击配对连接,当手机显示"已连接"则已连接成功。
- 重達: 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,短按遥控器上的蓝牙按键就可以重新连接。
- 清除配对:长按遥控器"蓝牙控制"按键。在清除配对后,部分手机可能会出现无法再搜索到"SMSL SU-9 PRO",此时需要将手机保存的蓝牙设备"SMSL SU-9 PRO"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。SU-9 PRO采用MOA技术,可以接收并 解码MOA音频,提供母带级别的声音。

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

# MQA文件播放

- SU-9 PRO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。
- MOA商标旁边的指示灯为绿色或蓝色亮起,表示设备正在解码并播放MOA音频或文件, 并且确保输出音质与源素材一致。它呈蓝色亮起,表示它正在播放MQA Studio文件,该 文件已经由艺术家/制作人或者版权所有者获得授权。



# 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)

## ■ OUTPUTS (输出方式)

• ALL LINE OUT (全部输出)

• BALANCED (平衡输出)

• UNBALANCED (单端输出)

## ■ PCM FILTER (PCM滤波器)

• FILTER OFF (滤波器关闭)

• MINIMUM PHASE(最低相位)

• APODIZING (切迹,快速滚降,线性相位滤波器)

• LINEAR FAST (快速滚降,线性相位滤波器)

• LINEAR SLOW (慢滚降,线性相位滤波器)

• MINIMUM FAST (快速滚降,最小相位滤波器)

MINIMUM SLOW(慢滚降,最小相位滤波器)

• LOW DISPERSION(低分散延时)

# 功能介绍

# ■ DSD FILTER (DSD滤波器)

• 47k CUT-OFF (47kHz频率截止)

• 50k CUT-OFF (50kHz频率截止)

• 60k CUT-OFF (60kHz频率截止)

• 70k CUT-OFF (70kHz频率截止)

# ■ SOUND COLOR(音色菜单)

本机总共有9种音色模式,它是通过对DAC进行DSP处理,分别为:

- Rich1、Rich2、Rich3(泛音丰富)
- Tube1、Tube2、Tube3(胆味)
- Crystal1、Crystal2、Crystal3(高清晰度)

音色设置是使用ES9038PRO DSP,做出不同的音色效果,所有这些设置不会改变频率响应曲线。设置为Standard模式将禁用此功能!

# ■ 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:輸出接口音量是固定的。

## ■ FN KEY FOR (FN按钮)

OUTPUTS (输出选择)

• BLUETOOTH (蓝牙输入)

• PHASE (相位)

# 功能介绍

## ■ DPLL (DPLL设置)

MIN ~ MAX

(共15种,默认为5。数字越大适应抖动的范围越强,数字越小抗时钟抖动的性能越好。)

这个DPLL设定是ESS系列产品特有的功能,它可以调整芯片内部DPLL数字锁相环电路的带宽,使芯片在抗时钟抖动和输入宽容度之间达到一个平衡。 它的作用:

- 在输入信号的时钟稳定度好的情况,可以减小这个值,这样系统的时钟性能更佳;
- 在输入信号的时钟稳定度不好的情况下,声音有可能会有中断的现象,增大这个 值可以避免声音中断现象的发生! 特别是使用电视作为信号源时。

## 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)

• 在此界面下,长按旋钮中键,系统会重置所有设定,包括蓝牙配对状态.





# USER MANUAL



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

# Safety Notes

- Install this unit in a well ventilated, cool, dry, clean place-away from direct sunlight, heat sources, vibration, dust, moisture, or cold..
- Use the voltage specified on this unit Only, Using this unit with a higher voltage than specified is dangerous and may cause fire, damage to this unit, or personal injury. Our company will not be held responsible for any damage resulting from the use of this unit with a voltage other than that specified.
- Do not attempt to modify or fix this unit by yourself. Contact alesperson or customer service when any service is needed. The cabinet should never be opened for any reason.
- When not planning to use this unit for long periods of time (i.e. when going on vacation), disconnect the power cable from the AC wall outlet.

## Important note:

The product specifications and information mentioned in this manual are for reference only. The content of this manual is subject to change without notice.

# **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 uesd 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.

# Features

- Both USB and SPDIF support MQA and MQA-CD.
- Used the latest high-end ES9039MSPRO D/A chip of ESS company for 8 channels, combined with up to 11 pcs OPA1612A op-amp.
- XMOS XU-316, true 32bit USB processing, supports DoP and Native DSD, and PCM reaches up to 768kHz and DSD512.
- The newly self-developed CK-03 clock processing circuit greatly reduces the clock jitter;
- USB, Optical and Coaxial support DSD transmission, Coaxial, Optical support DOP64;
- Use tempered glass display panel for higher light transmission and longer service life;
- Built-in shielding, low noise power supply processing, while improving power supply efficiency, lower power consumption;
- Specially designed discrete component linear regulated power supply and multiple low noise regulated power supplies to provide low noise power for analog circuits.
- · The latest Bluetooth supports LDAC, APTX/HD, SBC, AAC
- · High-quality gold-plated input and output jacks;
- 1.9-inch LCD screen;
- · JAS Hi-Res certification:
- Equipped with remote control and full-featured remote control.

# Specifications

Input	USB / Optical / Coaxial / Bluetooth
Output	RCA / XLR
Line output amplitude	XLR 5.2Vrms
	RCA 2.5Vrms
THD+N	0.00005%(-125dB)(UN-WTD)
Dynamic range	134dB(XLR),128dB(RCA)
SNR	134dB(XLR),128dB(RCA)
USB Spec	USB 2.0 Asynchronization
USB compatibility	
	Mac OSX10.6 or Later、Linux(Driverless)
MQA decoder	USB / Optical / Coaxial
MQA-CD decoder	Optical / Coaxial
Sampling rate & Bit Width:	
USB PCM	44.1 ~ 768kHz(32bit)
DSD	2.8224 ~ 22.5792MHz(1bit)
Optical / Coaxial	44.1 ~ 192kHz(24bit)
DoP	DoP256(USB),DoP64(Optical / Coaxial)
Bluetooth:	5.0
LDAC	24bit/96kHz (990kbps/660kbps/330kbps)
aptX-HD	24bit/48 kHz_576kbps
aptX	16bit/44.1 kHz_352kbps
SBC	16bit/44.1 kHz_328kbps
AAC	16bit/44.1 kHz_320kbps
Power Consumption	<10W
Standby power	<0.5W
Size	187.5x154x40mm (WxHxD)
Weight	0.79kg

# Note

Firmware and driver download: http://www.smsl-audio.com/cn/download.asp

#### Remote contro

- Install 2 x AAA batteries as instructions.
- When using the remote control, point it toward the remote con-trol 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 unin-tentional
  operation of other devices that can be controlled by infra.

## Operating the remote control



## Note

This remote controller use 2 x R03/AAA batteries.

# Display Interface and Instructions



- 1 Knob\*
- 2 Display

Remote window

- Bluetooth antenna\*\*
   Balanced output
- 5 Optical input8 Coaxial input
- 6 RCA output
  9 USB input

10 AC IN

## Knob\*

- Konb: Volume/Menu up or down
- . Button: Press to Menu/Enter; Hold to Return or Power ON/OFF

# Bluetooth operating instructions\*\* 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 "SMSL SU-9 PRO", 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 SU-9 PRO, for example, going out, and back home, some phones will not re-connect the SU-9 PRO if the SU-9 PRO has not been re-boot, so you can press the Bluetooth button on the remote to Re-connect.

Clear pairing. Long press the "Bluetooth" button on the remote control. After clearing the pairing, some phones may no longer be able to search for "SMSL SU-9 PRO". In this case, you need to delete the Bluetooth device "SMSL SU-9 PRO" 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. The SU-9 PRO 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.mga.co.uk/how-it-works for more information.

- SU-9 PRO's MQA playback does not require additional software. You can use foobar2000 or Audirvana for MQA playback as it supports ASIO or WASAPI audio output. When playing MQA audio, it is suggested to adjust the volume of the computer to the maximum for the best audio output.
- . The SU-9 PRO LED next to MQA logo glows green or blue to indicate that the unit is decoding and playing an MQA stream or file, and denotes provenance to ensure that the sound is identical to that of the source material. It glows blue to indicate it is playing an MQA Studio file, which has either been approved in the studio by the artist/producer or has been verified by the copyright owner.

#### NOTE:

It glows magenta to confirm that the product is receiving an MQA stream or file. This delivers the final unfold of the MQA file and displays the original sample rate.

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# Instructions

## INPUTS

- USB
- BLUETOOTH
- OPTICAL
- COAXIAL

## OUTPUT

- ALL LINE OUT
- BALANCED
- UNBALANCED

## PCM FILTER

- FILTER OFF
- MINIMUM PHASE
- APODIZING
- LINEAR FAST
- LINEAR SLOW
- MINIMUM FAST
- MINIMUM SLOW
- LOW DISPERSION

# Instructions

## DSD FILTER

There are 4 kinds of digital filtering in total.It's the way that the digital operation means the clutter outside the audioFilter out, respectively

- 47kHz Cutoff
- 50kHz Cutoff
- 60kHz Cutoff
- 70kHz Cutoff

## SOUND COLOR

There are 9 sound color settings in SU-9 PRO.

- Rich1、Rich2、Rich3
- Tube1, Tube2, Tube3
- Crystal1、Crystal2、Crystal3

This setting is using the DSP of ES9038PRO, to make some different sound color, all of these settings will not change the frequency res ponse curve. When set to "Standard", this setting will be bypassed.

#### PRF MODE

Volume control enable or disable.

- VARIABLE:In this mode, volume can be adjust by remote controller, and make SU-9 PRO a pre-amplifier.
- FIXED:In this mode, volume is fixed on max output level, and the SU-9 PRO will ignore the volume operations.

## FN KEY FOR

- OUTPUTS
- BLUETOOTH
- PHASE

# Instructions

## DPLL

MIN ~ MAX

(A total of 15 kinds, the default is 7 kinds. The larger the number is, the stronger the range to adapt to jitter, and the smaller the number, the better the performance against clock jitter.)

This DPLL setting is a special function of ESS series products. It can adjust the internal DPLL digital phase locked loop circuit Bandwidth, so that the chip achieves a balance between anti-clock litter and input tolerance.

## Its function:

- When the clock stability of the input signal is good, this value can be reduced, so that the clock performance of the system is better;
- When the clock stability of the input signal is not good, the sound may be interrupted. Increase this value can avoid the sound interruption! Especially when using TV as signal source!

## 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

 In this page, press and hold the button of the knob, the system will reset all settings, including Bluetooth pairing status.