





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QC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

- 支持MQA全解码;
- 使用美国ESS公司高端ES9068AS D/A芯片;
- 使用5颗高端双运放OPA1612及大量发烧元器件;
- USB使用XMOS XU-216,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;
- 使用了超低相噪和优化的时钟处理电路处理,以达到超低的时钟抖动;
- 全部接口均支持MOA解码功能;
- · 全部输入口均支持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;
- 美国高通最新蓝牙芯片支持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;
- 配备遥控器和全功能遥控。

技术参数

输入方式			USB /光纤/同轴/蓝牙		
输出方式					
THD+N					
动态范围		平衡线路	126dB		
		单端线路	125dB		
信噪比			126dB		
输出阻抗			<10Ω		
USB传输方式					
USB兼容性Windows 7 / 8 / 8.1 / 10, 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		
		DSD	DSD64(DoP)		
蓝牙规格		5.0(支持SBC	C,AAC,APTX,APTX HD)		
消耗功率			5W		
待机功耗<0.5W					
体积					
重量					

规格时有变更,恕不另行通知。

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。
- 按照电池外置的地方性法规外置废旧电池。

淫埪哭的使E

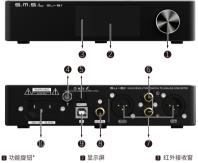


注意

- 1. 遥控器请使用2节7号(AAA)电池
- 第一次操作SU-8s时,先按C键

*FN按键作用:此按键的功能可以在菜单选择输出选择和蓝牙输入。

部件介绍



- 蓝牙天线** 7 平衡线路输出

- 光纤輸 λ 6 单端线路输出 ■ USB输入 ■ 同轴輸入

■ 电源输入

功能旋钮。

- 施钮: 音量加減,菜单切換,功能选择。
- 按键: 短按,进入菜单,确认;长按,退出菜单,开关机。

荻牙操作说明 **

- 資格·将输入源切换至蓝牙、打开手机蓝牙功能、搜索"SMSI BT5 0" 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。
- 實際配对: 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 BT5 0", 此时需要将手机保存的蓝牙设备"SMSL BT5 0" 删除掉,然后再搜索配对。

操作说明 ***

· 使用本产品时,请用带屏蔽的RCA线材。

操作说明

1. 主界面



- 1、音频格式
- 2、输出接口,空白时为两个接口同时输出
- 3、输出相位标记, ← 正相, ← 反相。
- 4、音量显示
- 5、采样率,蓝牙输入时,显示解码格式(SBC, AAC, APTX, APTX HD)

菜单树

		USB AUDIO	(USB输入)	
	INPUTS	OPTICAL	(光纤输入)	
	(输入方式)	COAXIAL	(同轴输入)	
/		BLUETOOTH	(蓝牙输入)	
/				
		ALL Normal	(全部輸出)	
		XLR Normal	(平衡输出)	
	L	RCA Normal		
	OUTPUTS		(
	(输出方式)		(全部输出反相)	
- 1/			(平衡输出反相)	
- 1/	,	RCA Inverted	(单端输出反相)	
	PCM FILTER	Fast Linear	(快速滚降,线性	
	(PCM滤波器)	Slow minimum	(慢滚降,线性相	(位滤波器)
	(a monetar)	Minimum Phas	e(快速滚降,最小	相位滤波器
SU-8s MENU				
30-08 MENO				
- 11				
- 11		NORMAL	(普通模式)	
	SPDIF MODE	PROCESSO	R (处理器模式)
1	(光纤, 同轴模式)			
1		Standard	(标准)	
\		Rich 1	(丰富1)	
\		Rich 2	(丰富2)	
\		Rich 3	(丰富3)	
\	SOUND COLO		(胆味1)	
	SOUND COLO (音色)	Tube 2	(胆味2)	
	(80)	Tube 2	(胆味2)	
		Crystal 1	(通透1)	
		Crystal 1	(通透2)	
		Crystal 2 Crystal 3	(通透3)	
		Crystal 3	(足性見至3)	

並並如



关于MOA

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-8s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.mga.co.uk/how-it-works

MOA文件播放

- SU-8s只有USB和光纤和同轴接口,支持MQA解码,其它接口不支持!
- SU-8s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。
- MQA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MQA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。
- 在播放MOA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

功能介绍

INPUT (输入方式)

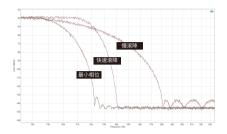
- USB (USB输入)
- OPTICAL (光纤输入)
- COAXIAL (同轴输入)
- BLUETOOTH(蓝牙输入)

OUTPUTS (輸出方式)

- ALL Normal (全部输出)
- XLR Normal (平衡输出)
- RCA Normal (单端输出)
- ALL Inverted (全部输出反相)
- XLR Inverted (平衡输出反相)
- RCA Inverted (单端输出反相)

PCM FILTER (PCM滤波器)

- Fast Linear (快速滚降,线性相位滤波器)
- Slow minimum (慢滚降,线性相位滤波器)
- Minimum Phase (快速滚降,最小相位滤波器)



SPDIF MODE (处理器模式)

这个设定仅对光纤和同轴这两个使用SPDIF协议的接口有效:

- NORMAL (普通模式)
- NORMAIL模式、仅使用数字接收芯片对SPDIF信号进行处理。使用于大部分场合、 在此模式下支持NOA的海梁器和OOP的播放、但此时由于ES906BAS芯片的限制。 无法显示当前正在播放OOP,仅能显示17-6.4KHZ输入,这个是正常现象,内部依 然会解码OOP并输出正常的音频。
- PROCESSOR (处理器模式)

PROCESSOR模式,此模式下本机会使用XMOS处理器对光纤同轴的信号进行处理。 这样可以有强大的算力,可以处理包括MQA,DOP在内的各种复杂任务,在此模式 下播放DOP音频。显示屏上会显示DSD图标。

注意: 使用时请勿频繁切换此模式, 尽可能在切换完此模式后重启本机, 否则可能会 导致输出杂音。

■ 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ES9068AS 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:

- Vol Fixed:输出接口音量是固定的。
- Vol Variable:输出接口音量是受控的。

■ FN KEY FOR(FN按键)

- · Switch XLR/RCA
- · Outputs(输出选择)
- Bluetooth(蓝牙输入)

■ 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。

■ 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 (系統复位)

- 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。







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

- · Supports MQA decoding;
- · The top performance D/A chip ES9068AS from ESS Technology;
- 5 high-end dual op-amps OPA1612 and a lot of audio grade components are used;
- XMOS XU-216, true 32bit audio processing, supports DoP and Native DSD, and reaches 32bit/768kHz and DSD512;
- Ultra-low phase noise and optimized clock processing circuit are used to achieve ultra-low clock jitter;
- · All interfaces support MQA decoding function!
- · All inputs support DSD streaming, including coaxial and optical (DoP64);
- Use tempered glass display panel for higher light transmission and longer service life;
- Built-in shielded, low noise power supply processing, while improving power 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.
- · Qualcomm's latest Bluetooth chip supports APTX/HD, SBC, AAC;
- · High quality gold-plated input and output jacks;
- · 1.9 inch TFT LCD display;
- · IAS Hi-Res certification:
- Equipped with remote control and full-function remote control.

Specification

Input	USB / Opt	ical / Coaxial / Bluetooth			
Output		RCA /XLR			
THD+N					
Dynamic range	XLR	126dB			
	RCA	125dB			
SNR		126dB			
Output impedance		<10Ω			
USB transmission		Asynchronization			
USB compatibilityWindows 7 / 8 / 8.1 / 10, Mac OSX、Linux					
Bit depthUSB		1bit, 16 ~ 32bit			
Optical / Coaxial		1bit, 16 ~ 24bit			
Sampling rateUSB	PCM	44.1 ~ 768kHz			
	DSD	2.8224 ~ 22.5792MHz			
Optical / Coaxial	PCM	44.1 ~ 192kHz			
	DSD	DSD64(DoP)			
Bluetooth specificationBT 5.0(support SBC,AAC,APTX,APTX HD)					
Power Consumption		5W			
Standby power		<0.5W			
Size					
Weight		0.77kg			

Specifications are subject to change without notice.

Note

Firmware and driver download:

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

Remote control

- 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.

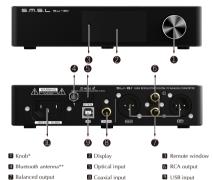
Operating the remote control



*FN button function: The function of this button can be selected in the menu output selection and Bluetooth input.

S.M.S.L

Display Interface and Instructions



Balanced output AC IN

Note: 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

 Step 2: Turn on the Bluetooth function of the mobile phone, search for "SMSL BTS.0", 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-8s, for example, going out, and back home, some phones will not re-connect the SU-8s if the SU-8s 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 BT5.0". In this case, you need to delete the Bluetooth device "SMSL BT5.0" which saved in the phone, and then search and pairing again.

Note***

When using this product, please use RCA wire with shield.

User interface

1. Main

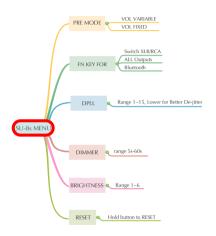


- 1. Audio format
- 2. Output interface, when blank, two interfaces output at the same time.
- 4. Volume Level
- Sampling rate, When Bluetooth input, display the decoding format (SBC, AAC, APTX, APTX HD)

MENU TREE



MENU TREE



About MOA

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-8s includes MQA technology, which enables you to playback MQA audio files and streams, delivering the sound of the original master recordine.

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

MOA files playback

- SU-8s has only USB and optical and coaxial interfaces, supports MQA decoding.
- SU-8s: 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-8s 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.
- When playing an MQA file, the sampling rate of the original master recording is displayed.

MO∆ and the Sound Wave Device are registered trade marks of MO∧ Limited. © 2016

Instructions

INPUTS

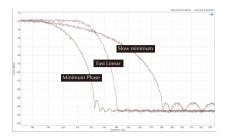
- USB
 - OPTICAL
 - COAXIAL
 - BLUFTOOTH

OUTPUTS

- ALL Normal
- XLR Normal
- RCA Normal
- ALL Inverted
- XLR Inverted
 - RCA Inverted

PCM FILTER

- Fast Linear
- · Slow minimum
- · Minimum Phase



SPDIF MODE

This setting is only valid for optical/coaxial interfaces which using SPDIF protocol;

NORMAL MODE

NORMAL mode, only use the digital receiver chip (DIR) to process the SPDIF signal, used in most occasions, in this mode supports MQA renderer and DoP playback, but at this time due to the limitation of the ES906BAS chip, it cannot display that the current playing is DoP, and only 176.48Hz input can be displayed. This is normal, and the internal will still decede DoP and output normal audio.

PROCESSOR MODE

PROCESSOR mode, in this mode SU-8s will use the XMOS processor to process the optical/coaxial signal, so that it can have more powerful computing power and can handle various complex tasks including MQA, DoP, in this mode, Play DoP audio, the DSD icon will be displayed correctly on the display.

Note: do not switch this mode frequently, try to restart the machine after switching this mode, otherwise it may cause output noise.

SOUND COLOR

There are 9 sound color settings in SU-8s.

- Rich1、Rich2、Rich3
 Tube1 Tube2 Tube3
- Iube1、Tube2、Tube3
- Crystal1、Crystal2、Crystal3

 This setting is using the DSP of ES9068AS, to make some different sound color, all of

these settings will not change the frequency response curve. When set to "Standard", this setting will be bypassed.

PRE MODE

Volume control enable or disable

- Vol Fixed: In this mode, volume is fixed on max output level, and the SU-8s will
 ignore the volume operations.
- Vol Variable: In this mode, volume can be adjust, and make SU-8s a pre-amplifier.

FN KEY FOR

- Switch XLR/RCA
- ALL Outputs
- Bluetooth

DPLL

MIN ~ MAX

(A total of 15 kinds, the default is 5 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 jitter 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!

DIMMER

5second ~ 60 second

(The range is 5 seconds-60 seconds. After setting, the screen will automatically go offer within this time, and the screen will re-light up if you operate the remote control of 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.