

S.M.S.L



SU-8

深圳市双木三林电子有限公司

提示

- 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、热源、振动、灰尘、潮湿或寒冷。
- 本机的上面，请不要放置下列物品：
 - 其他装置。因为这样有可能导致损坏 或导致本机表面变色。
 - 可燃物品（例如蜡烛）。因为这样有可能导致火灾而损坏本机或造成人身伤害。
 - 装有液体的容器。因为有容器反倒，液体流淌的可能，如此有可能导致用户触电或 损坏本机。
- 不要在本机上面覆盖报纸、台布、窗帘等，以免妨碍散热。如果本机内部温度过高，则有可能导致火灾，损坏本机 或造成人身伤害。
在使用开关、旋钮 或缆线时，不要用力过猛。
- 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双木三林将不负任何责任。
- 不要试图自行改造或修理本机。如果需要任何服务，请就近与有资格的双木三林维修人员联系。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。
- 请务必使用本机附带的AC适配器。使用附带的AC适配器以外的适配器可能导致火灾或损害本机。
- 为了加强对于本产品的保护，在雷电期间，或无人管理时以及长时间不使用时，请将电源线从墙壁上的电源插座上拔下。这样将防止该产品在闪电和电网出现电涌时受到损害。

技术参数

输入方式.....	USB、光纤、同轴
输出方式.....	单端 (RCA) , 平衡 (XLR)
输出幅度.....	2Vrms(RCA) , 4Vrms(XLR)
THD+N.....	0.0003%
动态范围.....	120dB
信噪比.....	116dB
USB输入方式.....	异步传输
USB兼容性.....	Windows 7 / 8 / 8.1 / 10 Mac OSX10.6以上、Linux
位深	
USB.....	1bit~32bit
光纤/同轴.....	1bit ~24bit
采样率	
USB.....	PCM:44.1~768kHz DSD:2.8224~22.5792MHz
光纤、同轴.....	32~192kHz DSD64(DoP)
消耗功率.....	3W
待机功耗.....	<0.1W
体积.....	185x40x125 (WxHxD)
重量.....	1.0 kg

温馨提示

固件及驱动下载：

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

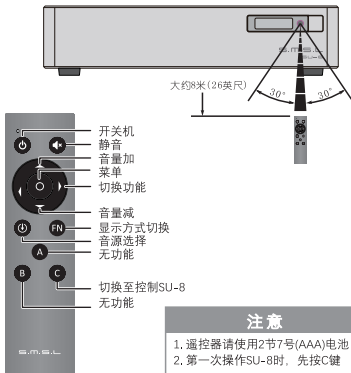
产品特点

- 最高规格的第二代XMOS处理芯片，实现最高的USB音频规格，PCM信号最高达32bit/768kHz,DSD最高达DSD512。
- 采用了2片美国ESS公司高级的ES9038Q2M D/A芯片，搭配优秀的全平衡电路设计，最大限度发挥2片芯片的性能，使失真度、通道分离度、信噪比达到极致。
- 独家利用ES9038Q2M内部的DSP，模拟出10种音色风格，包括胆味，泛音，高解析等！
- 内置7种PCM格式的数字滤波调节！对应用不同的可听频带外的频率响应，处理延时和声音特性！
- 使用了超低相噪的晶振，并且使用了高速的CPLD进行时钟处理，结果的极低的时钟抖动。
- 发烧级电源设计，使用了多组低噪声LDO供电。
- 大量使用音频专用发烧级电阻电容。
- 人性化操作，解码器声音风格和数字滤波器可自行设置。
- 高精度CNC全铝合金外壳。
- 全部输入接口支持DSD传输。
- 内置电压选择开关，可根据用户所在地需要切换输入电压。

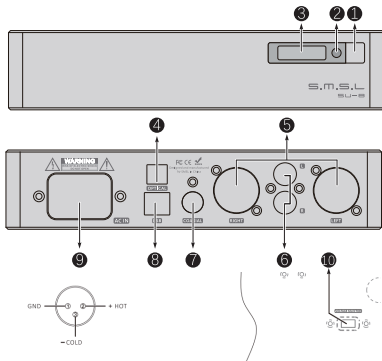
关于遥控器

- 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。

遥控器使用工作范围



显示界面和操作介绍



- ❶ 功能键 (长按开/关机, 短按切换输入源)
- ❷ 红外遥控接收窗
- ❸ 显示屏
- ❹ 光纤输入
- ❺ 平衡输出
- ❻ 线路输出
- ❼ 同轴输入
- ❽ USB输入
- ❾ 电源输入
- ❿ 电压选择开关

菜单界面介绍和操作



有5页的设置, 屏幕如下图所示。

- ❶ 菜单名称
- ❷ 菜单页码
- ❸ 菜单内容

菜单界面介绍和操作

INPUTS 1/5

1.usb dac

输入模式：

- USB dac(USB输入)
- Optical (光纤输入)
- Coaxial (同轴输入)

注：本级菜单的设置同输入源按键作用一样！

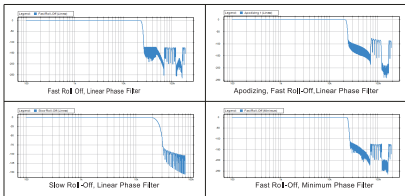
PCM FILTER 2/5

1.Fast Linear

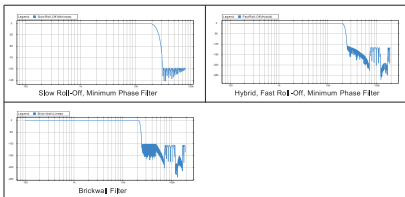
数字滤波模式(只对PCM信号起作用)：

- Fast Linear (陡峭滚降)
- Slow Linear (缓慢滚降)
- Fast Minimum (短延时陡峭滚降)
- Slow Minimum(短延时缓慢滚降)
- Fast hybrid(超低延时缓慢滚降)
- Apodizing
- Brickwall

数字滤波器的频率响应曲线



数字滤波器的频率响应曲线



SOUND 3/5

Standard

音色菜单：

- Standard (直通模式, 不经过处理)
- Rich 1、Rich 2、Rich 3(泛音丰富)
- Crystal 1、Crystal 2、Crystal 3(高解晰度)
- Tube 1、Tube 2、Tube 3(胆味)

DIMMER 4/5

Auto Display Off

亮度调节：

- Auto Display off
(5秒后自动息屏, 任何操作点亮)
- Brightness 1(低亮度)
- Brightness 2(中亮度)
- Brightness 3(高亮度)
- Brightness 4(超高亮度)

DISP MODE 5/5

1. Inputs

显示方式：

- Inputs (输入)
- Sampling Rate (采样率)
- Volume (音量)

注: 本级菜单的设置同显示切换按键作用一样!

恢复出厂设置

机器在未通电状态下，按住开机键再通电，直到显示屏显示logo之后，松开按键。

保修条款

一、服务期限

深圳市双木三林电子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，多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。

深圳市双木三林电子有限公司

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

S.M.S.L



SU-8

Shenzhen ShuangMuSanLin Electronics Co., Ltd.

TIPS

- Install this unit in a well ventilated, cool, dry, clean place-away from direct sunlight, heat sources, vibration, dust, moisture, or cold..
- On the top of this unit, do NOT place:
 - Other components, as they may cause damage or discoloration on the surface of this unit.
 - Burning objects (i.e. candles) , as they may cause fire , damage to this unit , or personal injury.
 - Containers with liquid in them, as they may fall and liquid may cause electrical shock to the user or damage to this unit.
- Do not cover this unit with a newspaper, tablecloth, curtain , etc. in order not to obstruct heat radiation. If the temperature inside this unit rises, it may cause fire, damage to this unit, or personal injury.
- Only the voltage specified on this unit must be used. Using this unit with a higher voltage than specified is dangerous and may cause fire , damage to this unit, or personal injury. SMSL will not be held responsible for any damage resulting from use of this unit with a voltage other than that specified.
- Do not attempt to modify or fix this unit. Contact qualified SMSL service personnel when anyservice 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.
- Be sure to use the AC adaptor supplied with this unit. Using an AC adaptor other than the one provided may cause fire or damage to this unit.
- For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet. This will prevent damage to the product due to lightning and power-line surges.

Specification

Input	USB / Optical / Coaxial
Output	RCA , XLR
Output Level	2Vrms(RCA) ,4Vrms(XLR)
THD+N	0.0003%
Dynamic range	120dB
SNR	116dB
USB compa bility	Windows 7 / 8 / 8.1 / 10 Mac OSX10.6 or Later / Linux
Bit depth	
USB	1bit – 32bit
Optical/coaxial	1bit – 24bit
Sampling rate:	
USB	PCM:44.1 ~ 768kHz DSD:2.28224 ~ 22.5792MHz
Optical/coaxial	32 ~ 192kHz DSD64(DoP)
Consumption Power	3W
Standby power	<0.1W
Size	185x40x125 (WxHxD)
Weight	1.0 k g

Note

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

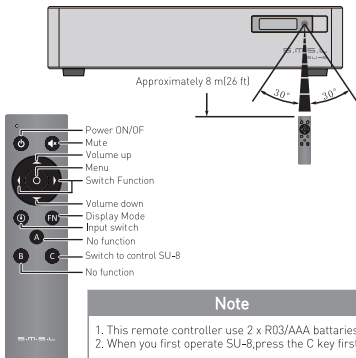
Features

- ESS technology latest ES9038Q2M DAC, with the new 32-bit HyperStream II architecture, improving sound quality and DoP function.
- 2nd generation of XMOS USB audio solution xCore200, PCM sampling rate supported up to 32bit/768kHz and DSD up to DSD512.
- There is 9 types of Sound color setting, not the digital filters, this feature using the DSP of ES9038Q2M to adjust the level of 2nd and 3rd distortion, make it sounds different.
- There is 7 types of digital filter settings, set this will also change the sound color!
- Ultra-low jitter asynchronous design and using ultra-low phase noise crystal as audio clock.
- Every input port supported DSD streaming, coaxial and optical supported to DSD64 by DoP technology via 24bit/176.4kHz SPDIF frame.
- Audiophile powering design by couples of ultra-low noise LDO for the best performance.
- High precision CNC aluminum housing.
- Intelligent power protection system include over voltage and over current.
- Humanized operation, sound style and digital filter can be set by user.

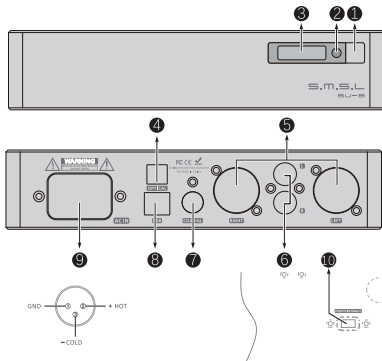
Remote control

- Install 2 x AAA batteries 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

Operating range of the remote control



Features



- ① Function key, long press on/off, short press to switch input source.
- ② Infrared remote receiving window ③ Display ④ Optical input
- ⑤ Balanced output ⑥ Line output ⑦ Coaxial input
- ⑧ USB input ⑨ Power input ⑩ Voltage selection switch

Change Settings



There are 5 pages of settings in this menu.

- Ⓐ Current page name
- Ⓑ Current page position
- Ⓒ Current page settings

Change Settings

INPUTS 1/5

1.usb dac

INPUTS:

- USB dac
- Optical
- Coaxial

Note: This setting is same effect with source button.

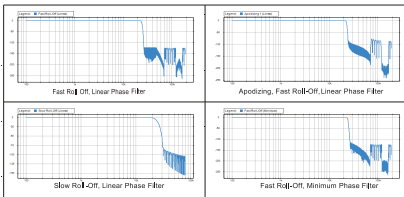
PCM FILTER 2/5

1.Fast Linear

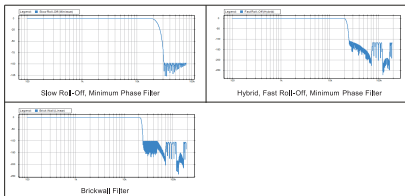
PCM Filter:

- Fast Linear
- Slow Linear
- Fast Minimum
- Slow Minimum
- Fast hybrid
- Apodizing
- Brickwall

PCM FILTER FREQUENCY RESPONSE



PCM FILTER FREQUENCY RESPONSE



SOUND 3/5
Standard

Sound(Sound color):

- Standard (Bypass any processing)
- Rich 1,Rich 2,Rich 3
- Crystal 1,Crystal 2,Crystal 3
- Tube 1,Tube 2,Tube 3

DIMMER 4/5
Auto Display Off

Dimmer:

- Auto Display off
[In this mode display will turn off in 5 seconds and will turn on by any operations]
- Brightness 1
- Brightness 2
- Brightness 3
- Brightness 4

DISP MODE 5/5
1. Inputs

Display mode

- Inputs
- Sampling Rate
- Volume

Note: This setting is same effect with display mode button.

Factory Reset

Connect the power wire when pressing the power button, until screen shows logo.

Warranty terms

1.The term of service

Shenzhen SuangMuSanLin Electronics Co.,LTD promise good quality products. If product is defective unit by normal use within 7 days after purchasing. The customer can chose to return or repair warranty (does not affect the secondary sales after they can return). Faulty for free within one year warranty normal use.

2.Date of purchase is in accordance with invoice date or receipt date is used by seller,on line shopping can cut trade shots.

3.Following situation can not enjoy 'Three Guarantees'service:

- All damages by human factors, including use it under non-normal working environment the and not follow manual in structions.
- User privately disassemble, modification, maintenance;
- Use non-designated or approved accessories cause damage;
- QC warranty stickers damage on cabinet;
- Can not provide avalid purchasing prove;
- Not belong to SMSL products.

4.How to warranty

This terms only suitable for China mainland, other region please refer to the policy of the local sales agents and national.

Shenzhen Shuangmusanlin Electronics Co., Ltd.

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