

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

Features

- The top performance D/A chip ES9038PRO from ESS Technology;
- The high-performance power supply chip ES9311, the noise of ES9311 is as low as 1uVrms, to push ES9038PRO to the limit;
- XMOS XU-208, true 32bit audio processing, supports DoP and Native DSD, and reaches 32bit/768kHz and DSD512;
- Ultra-low phase noise and optimized clock system to achieve ultra-low clock jitter;
- USB, optical fiber, coaxial support DSD transmission, coaxial and optical fiber support 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 LDAC 24bit/96kHz, APTX/HD, SBC, AAC;
- · High quality gold-plated input and output jacks;
- 3 high-end dual op-amps OPA1612 and a lot of audio grade components are used;
- · 1.9 inch TFT LCD display;
- · JAS Hi-Res certification;
- · Equipped with remote control and full-function remote control.

Input

Specifications

Input	USB / Op	tical / Coaxial / Bluetooth
Output		RCA /XLR
Output level:		
Pre mode	XLR	4.8Vrms
	RCA	2.3Vrms
Fixed mode	XLR	4.3Vrms
	RCA	2.0Vrms
THD+N		0.000065%(-123.5dB)
	0.00005!	5%(-125dB)(A-Weighted)
Dynamic range	XLR	130dB
	RCA	123dB
SNR		130dB
Output impedance	XLR	207Ω
	RCA	142Ω
USB transmission		
USB compatibilityWindows 7 / 8 / 8.1 / 10 / 11, 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 specification:		
LDAC24bit/96kHz (990kbps/660kbps/330kbps)		
aptX-HD24bit/48 kHz_576kbps		
aptX		
SBC		
AAC		
Power Consumption		5W
Standby power		
Size		
Weight		0.79kg

LISB / Optical / Coavial / Bluetooth

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



Display Interface and Instructions



- Bluetooth antenna**
- Optical input
- 6 RCA output

- Balanced output
- 8 Coaxial input
- USB input

10 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 button of the remote;
- . Step 2: Turn on the Bluetooth function of the mobile phone, search for "SMSL SU-9n", 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-9n, for example, going out, and back home, some phones will not re-connect the SU-9n if the SU-9n 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-9n". In this case, you need to delete the Bluetooth device "SMSL SU-9n" which saved in the phone, and then search and pairing again.



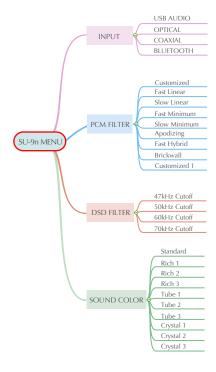
User interface

1. Main

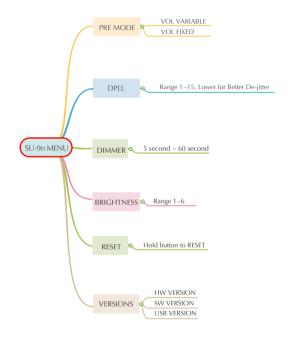


- 1、Audio format
- 2、Volume Level
- 3. Sampling rate

MENU TREE



MENU TRE



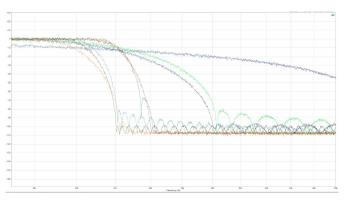
Instructions

INPUT

- USB AUDIO
- OPTICAL
- COAXIAL
- BLUETOOTH

PCM FILTER

- Customized
- Fast Linear
- Slow Linear
- Fast Minimum
- · Slow Minimum
- · Apodizing
- Fast Hybrid
- Brickwall
- Customized 1



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-9n.

- 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.

Instructions

PRE MODE

Volume control enable or disable.

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

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 jitter and input tolerance.

ts 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

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

VERSIONS

This page shows the system infomations, model name, version...