

S.M.S.L



00100 PRO

使用说明书/USER MANUAL/取扱説明書

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.

本説明書の内容は版によって予告なしに変更される

Ver 1.0



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 a person 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 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.



Features

- Supports MQA decoding and MQA-CD;
- 2 pieces of ESS new generation high-end DAC chip ES9039Q2M;
- Adapts the latest Bluetooth chip of Qualcomm, supports LDAC 24bit/96kHz, APTX/HD, SBC and AAC;
- Utilizes 6 high-end dual op-amps OPA1612 and numerous audio-grade components;
- The brand-new third-generation XMOS XU-316, supports up to PCM 32bit/768kHz and DSD512;
- The audio clock processing circuit helps reduce clock jitter greatly;
- There are two modes to choose from: USB 1.1 and USB 2.0;
- Input ports (except Bluetooth) support MQA and DSD, coaxial and optical support DoP64;
- Built-in self-developed low-noise switching power supply and multiple analog circuits low-noise power supply;
- High-quality gold-plated input and output connectors;
- Japan Audio Association (JAS)Hi-Res certification;
- Equipped with a full-featured remote control.



Specifications

Input.....	USB/Optical/Coaxial/Bluetooth/HDMI(ARC)		
Output.....	RCA/XLR		
THD+N.....	0.00005%(-124.5dB non-Weighting)		
Line output amplitude.....	XLR		5.2Vrms
.....	RCA		2.5Vrms
Output Impedance.....	100Ω		
Dynamic range.....	XLR		131dB
.....	RCA		127dB
SNR.....	XLR		131dB
.....	RCA		127dB
USB transmission.....	Asynchronization		
USB compatibility.....	Windows 7 / 8 / 8.1 / 10 / 11(Needs Driver) Mac OSX10.6 or Later、Linux(Driverless)		
MQA decoder.....	USB/Optical/Coaxial		
Sampling rate & Bit Depth:			
	USB	PCM	44.1~768kHz(32bit)
		DSD	2.8224~22.5792MHz(1bit)
		DoP	DoP256
	Optical / Coaxial		44.1~192kHz(24bit)
		DoP	DoP64
Bluetooth specification.....	5.1(Support SBC,AAC,aptX,aptX HD,LDAC)		
Power Consumption.....	<10W		
Standby power.....	<0.5W		
Size.....	189x45x186mm(WxHxD)		
Weight.....	1.45kg/3.19lbs		

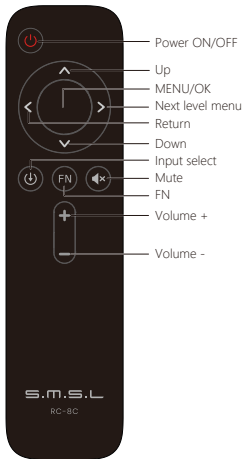
SMSL reserves the right to make improvements which may result in specification or feature changes without notice.

Remote control

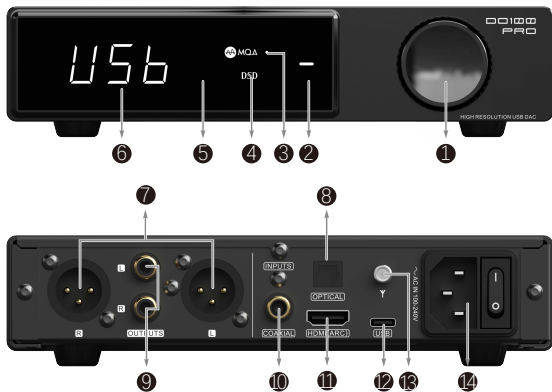
- If the remote control is still ineffective when it is close to the machine, replace it with a new battery.
- If the user does not use the remote control for a long time, remove the battery of the remote control.
- Dispose of used batteries in accordance with local regulations on battery disposal.

Operating the remote control

- This remote controller use 2 x R03/AAA batteries.



Display Interface and Instructions



- 1 Knob
- 2 Standby indicator light
- 3 MQA indicator light
- 4 DSD indicator light
- 5 Remote window
- 6 Display
- 7 XLR outputs
- 8 Optical input
- 9 RCA outputs
- 10 Coaxial input
- 11 HDMI (ARC) input
- 12 USB input
- 13 Bluetooth antenna
- 14 AC IN



Instructions

INPUTS

- USB
- BLUETOOTH
- OPTICAL
- COAXIAL
- HDMI(ARC)

DPLL

- DPLL 1-9, 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 bandwidth of the DPLL digital phase-locked loop circuit inside the chip, 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. Increasing this value can avoid sound interruption! Especially when using TV as a signal source!

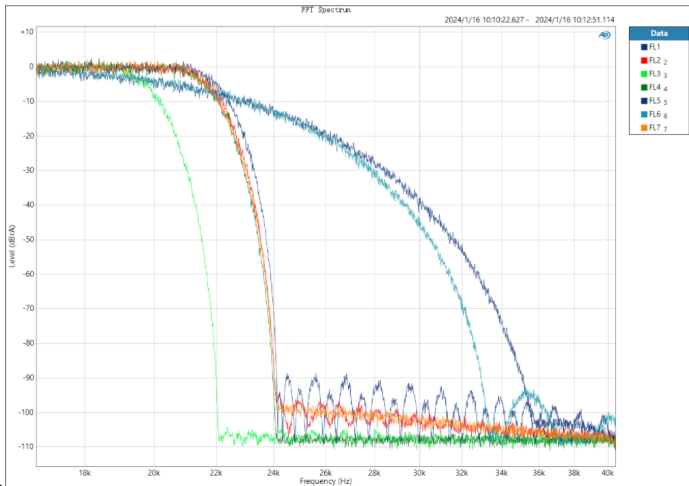
USB

- USB2.0 (select USB2.0, WIN system needs to install driver, support DSD)
- USB1.1
 1. It is possible to connect all USB devices without a driver.
 2. It can support the connection of various game consoles, such as PS4,PS5,Nintendo Switch etc.
 3. USB 1.1 only supports a maximum of 96kHz.

Instructions

PCM FILTER

- FL 1(Minimum phase)
- FL 2(Linear phase fast roll-off)
- FL 3(Linear phase fast roll-off low ripple)
- FL 4(Linear phase slow roll-off)
- FL 5(Minimum phase fast roll-off)
- FL 6(Minimum phase slow roll-off)
- FL 7(Minimum phase slow roll-off low ripple)





Instructions

BRIGHTNESS

- LEVEL 1 ~ LEVEL 8 (Brightness levels 1-8, the smaller the value, the lower the brightness)

Bluetooth operation instructions:

- Short press the panel knob to enter the decoding mode for input switching. Rotate the knob left and right to switch the display to "BT" and enter Bluetooth matching mode.
- By pressing the input switch shortcut key on the remote control and switching to "BT", you can enter Bluetooth matching mode.



Packaging list

- 1 x DO100 PRO
- 1 x Remote control
- 1 x Bluetooth antenna
- 1 x AC power cable
- 1x USB cable
- 1 x User manual
- 1 x Warranty card

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 DO100 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.mqa.co.uk/how-it-works> for more information.

How to play MQA

- DO100 PRO supports MQA decoding with USB, optical fiber and coaxial!
- DO100 PRO'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.

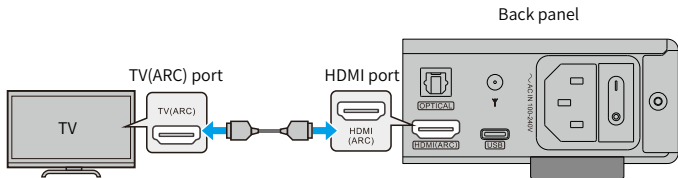
 MQA and the Sound Wave Device are registered trade marks of MQA Limited. © 2016

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.

Connect to an ARC compatible TV through HDMI

Connect an ARC compatible TV to this product using a commercially available HDMI cable.



TIPS:

- Connect to an HDMI IN port labeled "ARC" or "eARC/ARC" on the TV. This type of label indicates that the port supports "only ARC" or "both eARC and ARC". If connected to a port that does not support ARC, the ARC input function of this product cannot be used.
- For this type of connection, please use an HDMI cable (19 pin) with the HDMI logo indicating compatibility with ARC. You may need to change the settings on your TV. Please refer to the user manual for the TV.
- This product cannot output videos. (Meaning that it's HDMI ARC, not HDMI. Supports digital signal input, not video input.)
- If you play audio from a TV that does not support ARC, please connect the TV's audio output port to the audio IN port (OPTICAL, COAXIAL, or AUX) of this product.