SMSL VMV D1se QA Hi-End Audio DAC with Bluetooth 5.0 AptX User Manual

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Bluetooth 5.0 AptX User Manual

Model: D1se

USER MANUAL

The contents of this manual may be changed with the edition, and are subject to change without notice.   Ver 1.0

Contents

Safety notes

CAUTION:

TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER(OR BACK).

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

The lightning flash with arrowhead symbol,with in an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Safe use only under elevation 2000m.

WARNING:
TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

The contents of this manual are updated without prior notice. If the function of the product you are using is inconsistent with the instructions, the function of the product shall prevail!

Features

- Supports MQA decoding
- All-aluminum CNC high-end appearance design
- Equipped with adjustable feet
- The newly developed intelligent temperature compensation system(ITS) ensures that the product is always in the best performance state
- 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-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 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
- Bluetooth 5.0 digital audio input, support APT-X, external antenna, transmission distance farther!
- 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.

Specification

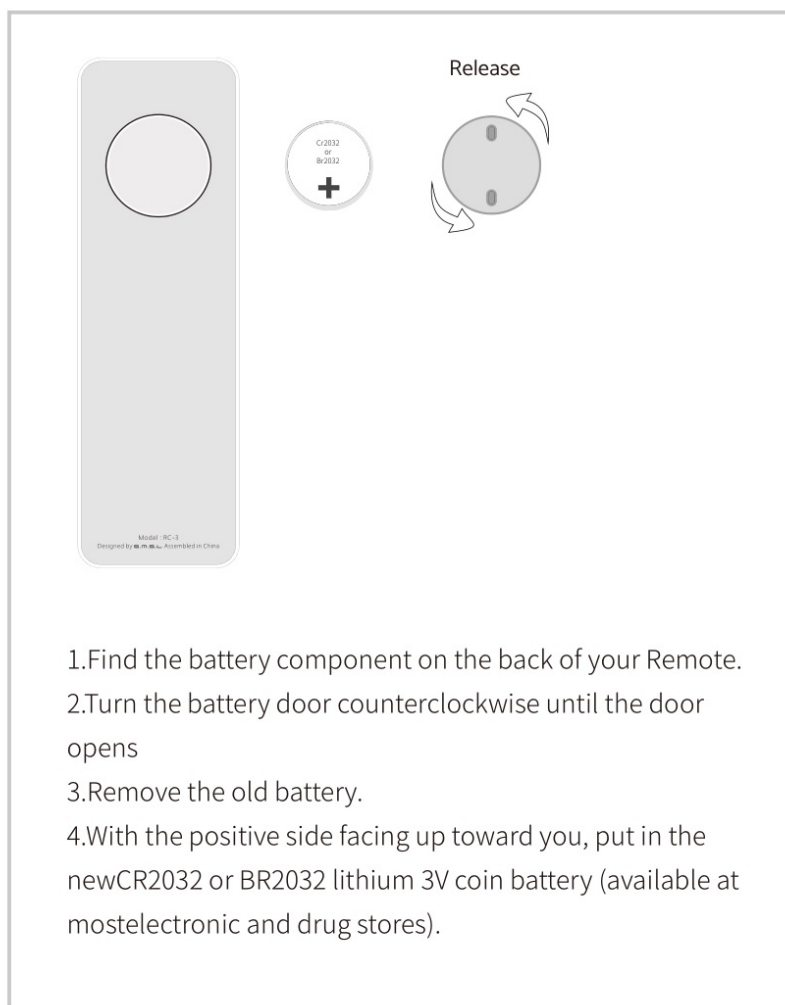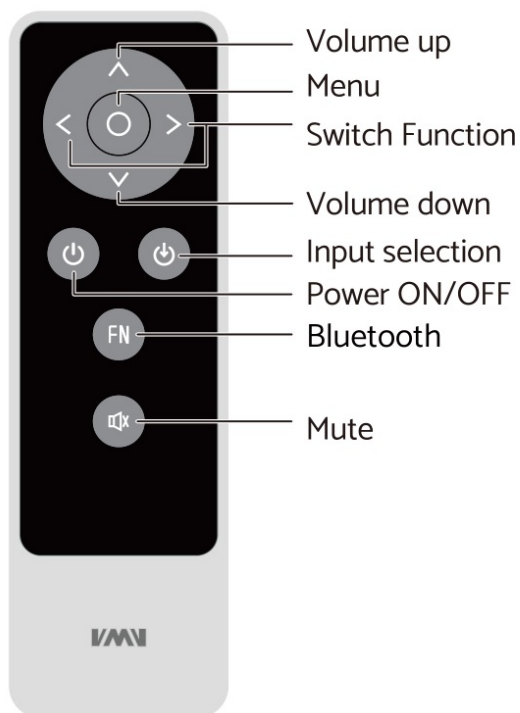|			
Input .... USB / Optical / Coaxial / Bluetooth			
Output .... RCA /XLR			
THD+N ....0.00009%(-121dB)			
Dynamic range ....XLR			130dB
	RCA		123dB
SNR 130dB			
Output impedance ....XLR			207Ω
	RCA		142Ω
USB transmission ....Asynchronization			
USB compatibility ....Windows 7 / 8 / 8.1 / 10, Mac OSX、 Linux			
Bit depth ....USB			1bit， 16 ~ 32bit
	Optical/Coaxial		1bit， 16 ~ 24bit
Sampling rate ....USB	PCM		44.1 ~ 768kHz
	DSD	2.8224 ~ 22.5792MHz	
	Optical/Coaxial	PCM	44.1 ~ 192kHz
	DSD		DSD64(DoP)
Bluetooth specification...BT5.0(support APT-X， SBC， AAC)			
Power Consumption 5W			
Standby power .... <0.5W			
Size ....210X185X42mm (WxHxD)			
Weight 1.64kg			

Specifications are subject to change without notice.

Remote Control

Install CR2032 or BR2032 lithium 3V coin battery 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.

Volume up
Menu
Switch Function
Volume down
Input selection
Power ON/OFF
Bluetooth
Mute

Release

Cr2032
or
Br2032
+

Model : RC-3
Designed by s.m.s.l. Assembled in China

1.Find the battery component on the back of your Remote.
2.Turn the battery door counterclockwise until the door opens
3.Remove the old battery.
4.With the positive side facing up toward you, put in the newCR2032 or BR2032 lithium 3V coin battery (available at mostelectronic and drug stores).

Functions

Main unit front

D1se

1. Multi-function knob

2. LED

3. Input source select

4. Display

5. Remote window

6. Bluetooth

Main unit back
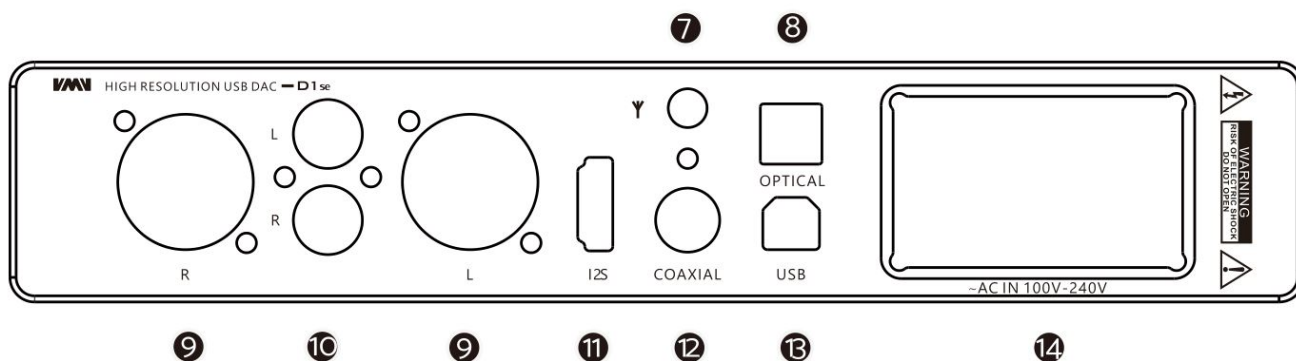
7. Bluetooth antenna
8. Optical input
9. Balanced output
10. RCA output
11. I2S input
12. Coaxial input
13. USB input
14. AC IN 100V-24V AC

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 D1se 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.

MQA files playback

1. The D1se supports MQA decoding on the USB interface.

2. D1se'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.

3. The D1se 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.

4. When playing an MQA file, the sampling rate of the original master recording is displayed.

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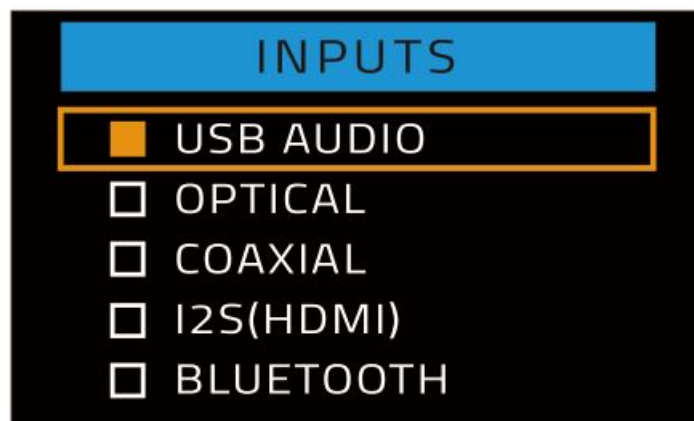
Operation Instructions
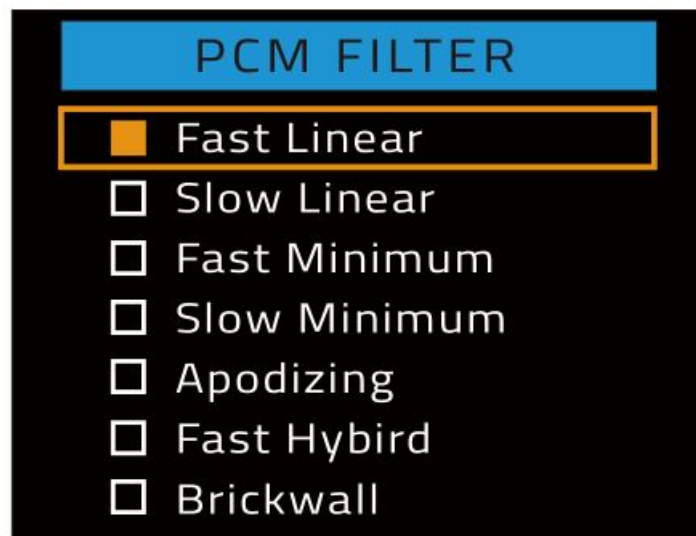
MAIN

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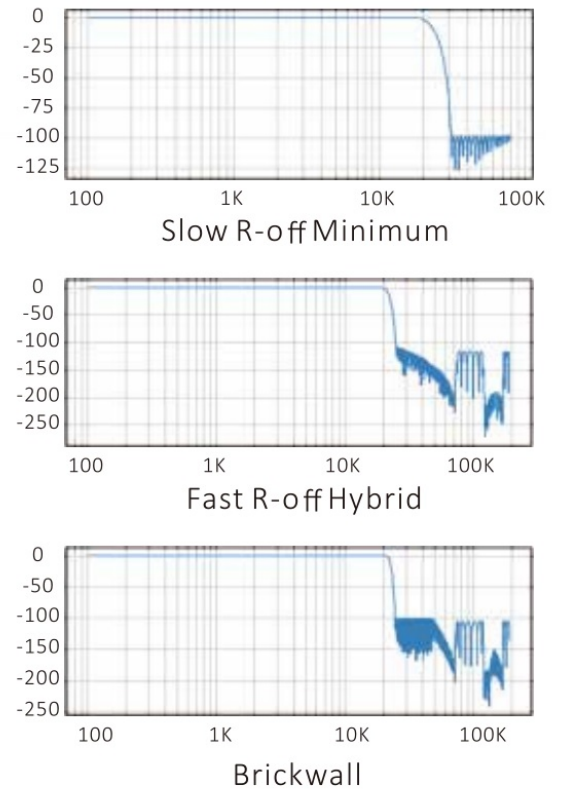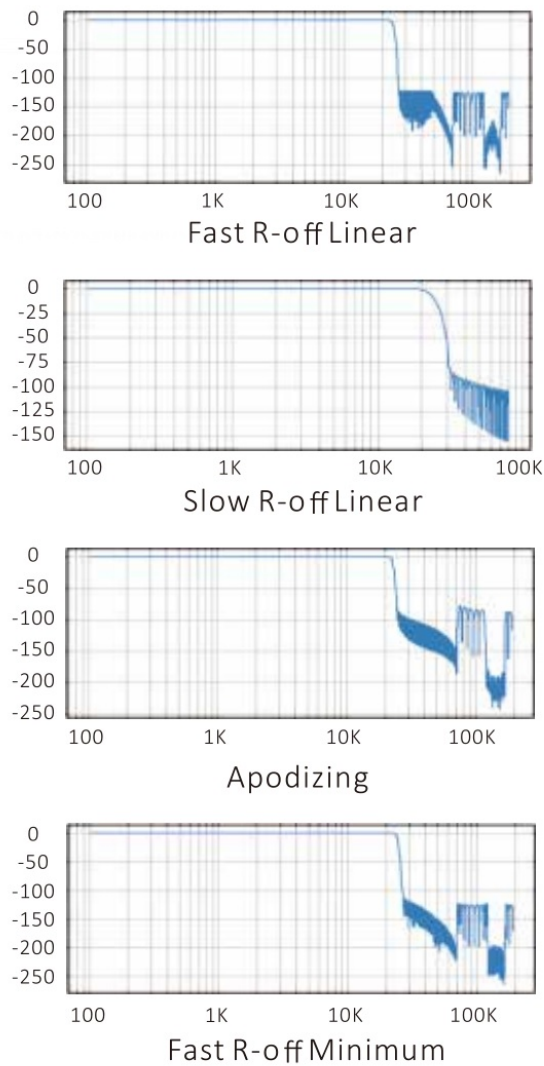2. Volume Level
3. Sampling rate

INPUT

1. USB AUDIO
2. OPTICAL
3. COAXIAL
4. I2S(HDMI)
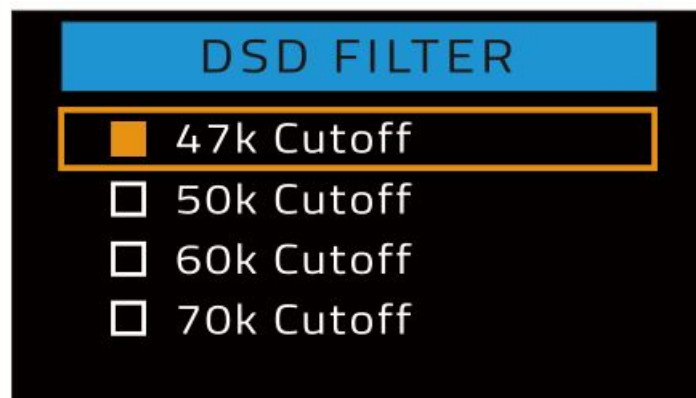5. BLUETOOTH

PCM FILTER

(This setup is only valid for non-MQA PCM format. Products with a full MQA Decoder unfold the file to deliver the highest possible sound quality. At this level of playback you are hearing what the artists created in the studio – with precise file and platform-specific DAC compensation and management.)

1. Fast Linear
2. Slow Linear
3. Fast Minimum
4. Slow Minimum
5. Fast Hybrid
6. Apodizing
7. Brickwall

Fast R-off Linear

Slow R-off Linear

Apodizing

Fast R-off Minimum

Slow R-off Minimum

Fast R-off Hybrid

Brickwall

DSD FILTER

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

1. 47kHz Cutoff
2. 50kHz Cutoff
3. 60kHz Cutoff
4. 70kHz Cutoff

SOUND COLOR
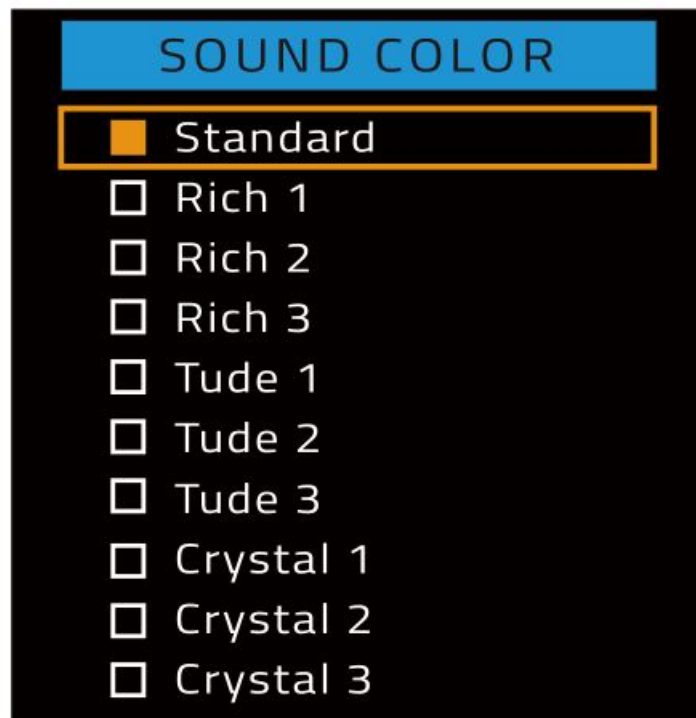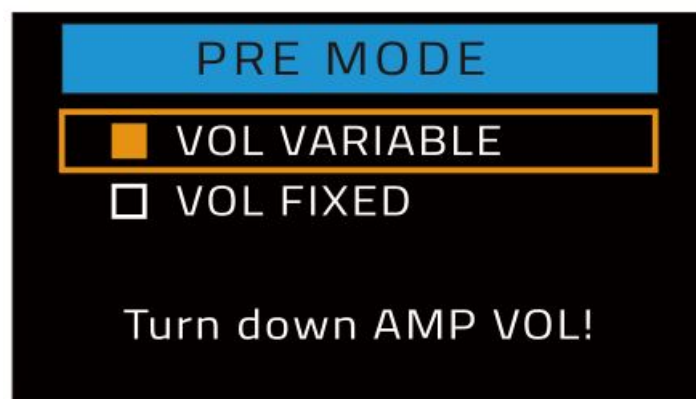

There are 9 sound color settings in D1se.
Rich1 Rich2 Rich3
Tube1 Tube2 Tube3
Crystal1 Crystal2 Crystal3
This setting is using the DSP of ES9038PRO,to make some different sound color, all of these settings will not change the frequency response curve. When set to "Standard", this setting will be by passed.
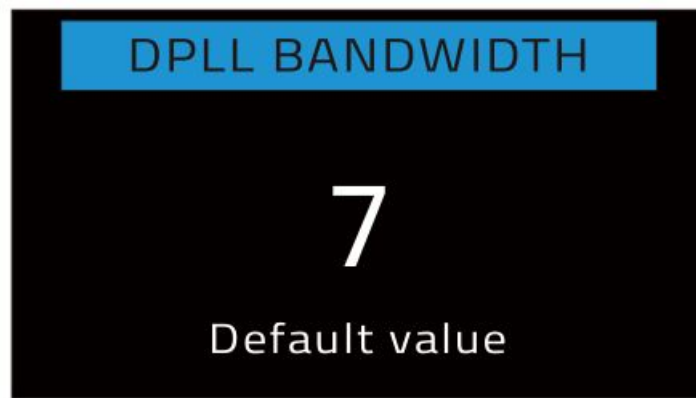
PRE MODE

Volume control enable or disable.
Vol Fixed : In this mode, volume is fixed on max output level, and the D1se will ignore the volume operations.

Vol Variable: In this mode, volume can be adjust by remote controller, and make D1se 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.)

DIMMER

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.
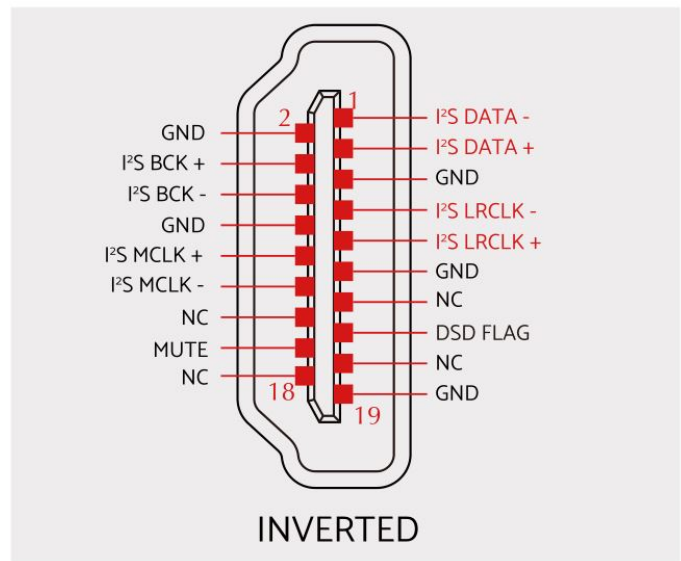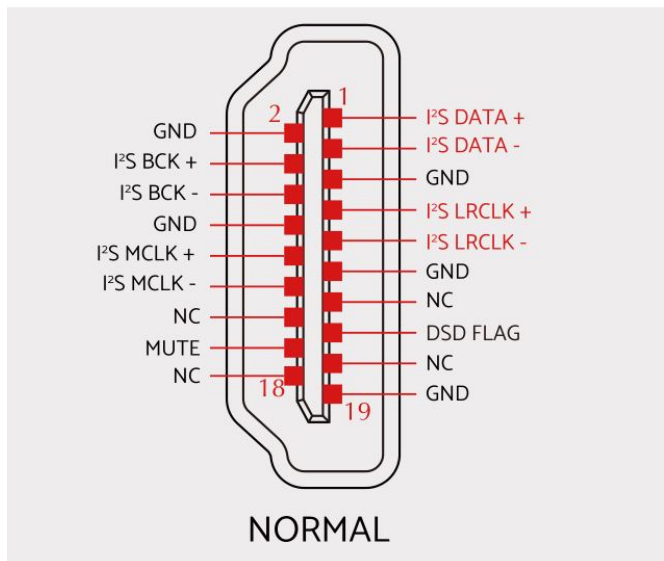
BRIGHTNESS

LEVEL 1~6

I2S Instructions

I2S MODE

- NORMAL
- INVERTED
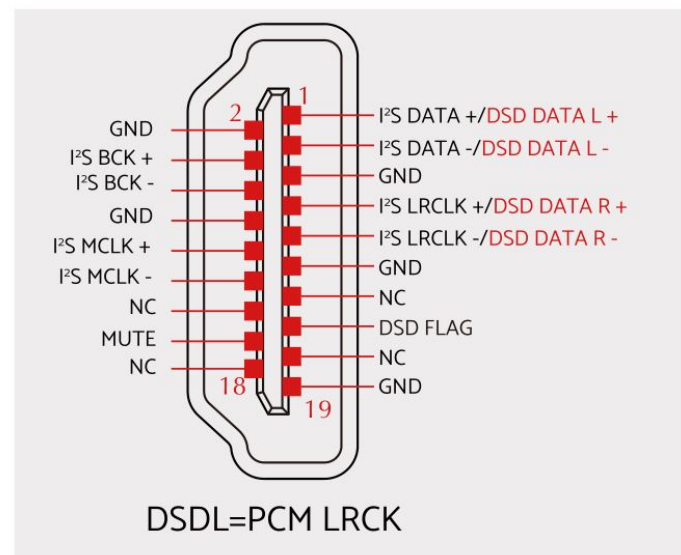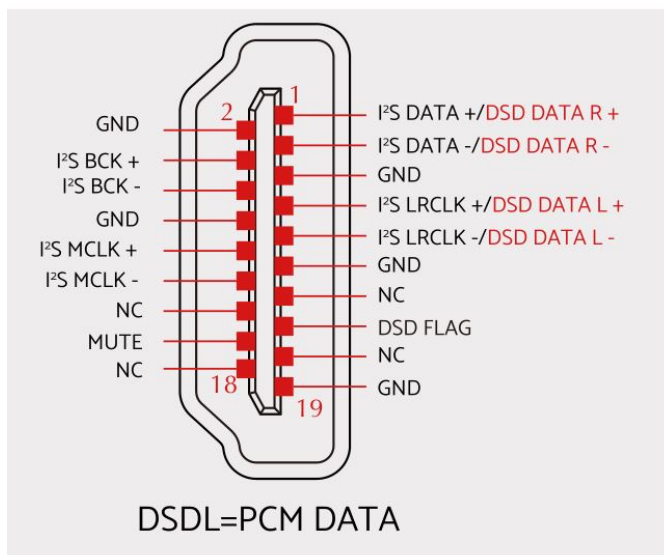

NORMAL

INVERTED

Note: This option is used to match different I2S interface standards, please check the interface definition of the signal source before use.
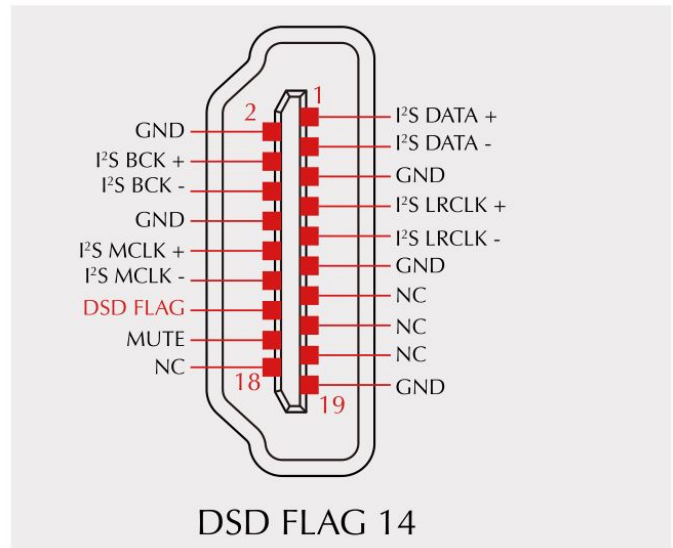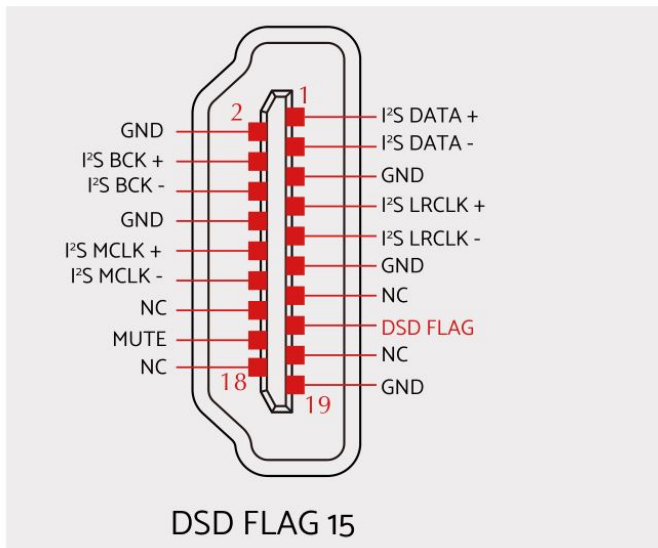
I2S DSD CHANNEL

- DSDL=PCM DATA
- DSDL=PCM LRCK

DSDL=PCM DATA

DSDL=PCM LRCK

Note: When using the I2S input to streaming DSD audio, if you find that the left and right channels are incorrect, you can use this option to correct it.

I2S DSD FLAG

- DSD FLAG=PIN15
- DSD FLAG=PIN14

DSD FLAG 15

Pin layout (left connector, pins 1–19):
- 1: I²S DATA +
- 2: GND
- I²S DATA -
- I²S BCK +
- I²S BCK -
- GND
- GND
- I²S LRCLK +
- I²S MCLK +
- I²S MCLK -
- GND
- NC
- NC
- DSD FLAG
- MUTE
- NC
- NC
- GND

DSD FLAG 14

Pin layout (right connector, pins 1–19):
- 1: I²S DATA +
- 2: GND
- I²S DATA -
- I²S BCK +
- I²S BCK -
- GND
- GND
- I²S LRCLK +
- I²S MCLK +
- I²S MCLK -
- GND
- DSD FLAG
- NC
- NC
- MUTE
- NC
- NC
- GND

Bluetooth operating instructions

This product is equipped with a Bluetooth button, which is the FN button on the remote control, The functions of this button include:

- **Short press**: Switch directly to Bluetooth input, if Bluetooth loses connection, it is a reconnect;
- **Long press**: Disconnect the current device and allow pairing with other devices.

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

  "VMV D1se", 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 D1se, for example,going out, and back home, some phones will not re-connect the D1se if the D1se has not been re-boot, so you can press the Bluetooth button (FN) on the remote to Re-connect.

Clear pairing: Long press the "Bluetooth" button(FN) on the remote control. After clearing the pairing, some phones may no longer be able to search for "VMV D1se". In this case, you need to delete the Bluetooth device "VMV D1se" which saved in the phone, and then search and pairing again.

Factory Reset

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

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.

Documents / Resources

	SMSL VMV D1se QA Hi-End Audio DAC with Bluetooth 5.0 AptX [pdf] User Manual VMV D1se, QA Hi-End Audio DAC with Bluetooth 5.0 AptX