



Safety notes

CAUTION:

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



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.

Features

- Support MQA decoding.
- Flagship DAC chip AK4499, the audio industry's highest performance.
- The THD+N is as low as 0.000068% (-123dB)!
When using A-weighted measurement, it is as low as 0.000058% (-124dB)!
- Dynamic range up to 131dB!
- USB uses the second XMOSE XU216, support native DSD and 32bit 768kHz!
- The clock system uses 2 ACCUSILICON ultra-low phase noise crystal oscillators.
- Using ALTERA's high-speed CPLD to process the clock and reduce the JITTER.
- Specially designed and enhanced power supply system provides ultra-low noise power supply with output noise as low as 1.8uVrms!
- The latest Bluetooth supports LDAC, APTX / HD, SBC, AAC and the industry's highest specification 24bit / 192kHz UAT format!
- Support LVDS level differential I²S reception (using HDMI interface), it can accept the lowest jitter digital audio!
- Users can update the system and USB firmware through the USB interface.
- Using color LCD screen and newly developed user interface, full-function remote control.
- Use USA ti's opa1611, opa1612 top-level op amp.
- Using lots of audiophile grade components, high precision, low temperature drift and resistors and capacitor!

Specification

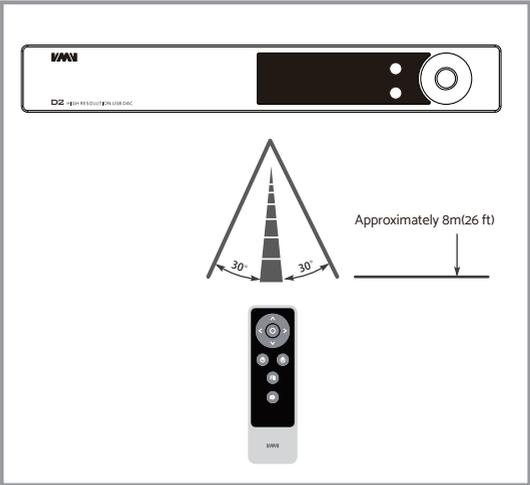
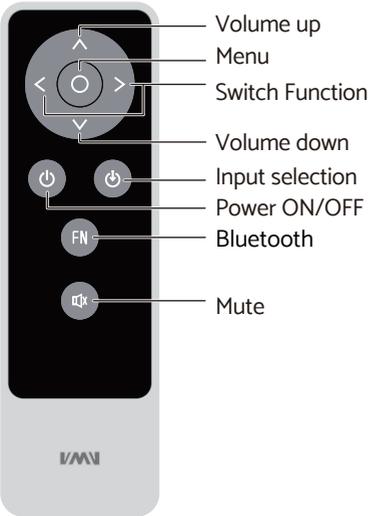
Input	USB / Optical / Coaxial / I ² S / Bluetooth / AES/EBU	
Output	RCA /XLR	
Clock	BNC(50 Ohms)	
Clock frequency.....	10MHz / 11.2896MHz / 12.288MHz / 16.9344MHz	
.....	25MHz / 27MHz / 33.8688MHz	
THD+N	0.000068%(-123dB)	
.....	0.000058%(-124dB) (A-WTD)	
Dynamic range	XLR	131dB
	RCA	125dB
SNR	131dB	
USB transmission	Asynchronization	
USB compatibility	Windows 7 / 8 / 8.1 / 10, Mac OSX、 Linux	
Bit depth	USB / I ² S	1bit, 16 ~ 32bit
	Optical / Coaxial / AES(EBU)	1bit, 16 ~ 24bit
Sampling rate	USB / I ² S	PCM 44.1 ~ 768kHz
		DSD 2.8224 ~ 22.5792MHz
	Optical / Coaxial / AES(EBU)	PCM 44.1 ~ 192kHz
Bluetooth specification :		
UAT	24bit/192kHz (1200kbps/900kbps/600kbps)	
LDAC	24bit/96kHz (990kbps/660kbps/330kbps)	
aptX-HD	24bit/48 kHz_576kbps	
aptX	16bit/44.1 kHz_352kbps	
SBC	16bit/44.1 kHz_328kbps	
AAC	16bit/44.1 kHz_320kbps	
Power Consumption	<10W	
Standby power	<0.5W	
Size	280X39X240mm (WxHxD)	
Weight	3kg	

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.



About MQA

SMSL VMV D2 includes MQA technology, which enables you to play back MQA audio files and streams, delivering the sound of the original master recording.

The LED 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.

MQA files playback

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

Functions

Main unit front



1. Multi-function knob

2. LED

3. Display

4. Input source select

5. Remote window

6. FN key

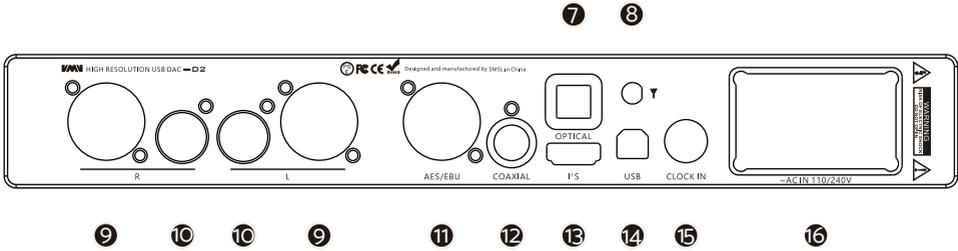
* Note: Knob

1. Konb: Volume/Menu up or down

2. Button: Press to Menu/Enter

Hold to Return or Power ON/OFF

Main unit back



7. Optical input

8. Remote window

9. Balanced output

10. RCA output

11. AES/EBU input

12. Coaxial input

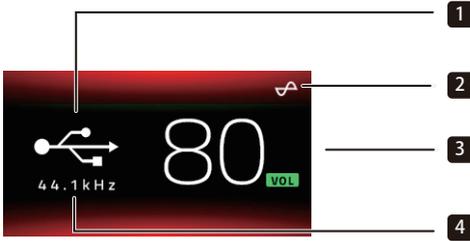
13. I²S input

14. USB input

15. Clock input

16. Power input

Operation Instructions



Main Display

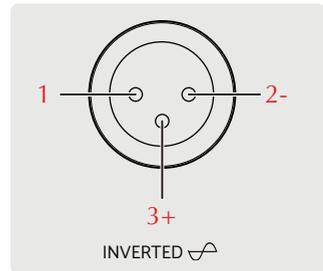
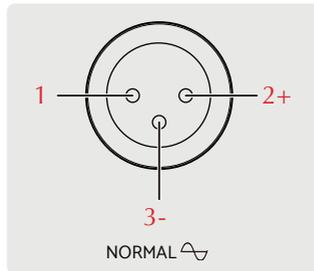
1. Input selection
2. Audio output phase
3. Volume
4. Audio format / Sampling rate

1. INPUT

- USB AUDIO
- OPTICAL
- COAXIAL
- ABE/EBU
- I²S(HDMI)
- BLUETOOTH

2. OUTPUTS

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



3. CLOCK MODE

- **NORMAL**
- **EXTERNAL (USB)**
(This setting requires an external input clock signal, which only works for the USB input. The internal clock is used for other inputs.)
- **EXTERNAL (ALL)**
(This setting requires an external input of clock signal, which works on all inputs. When using, the signal source and D2 must use the same clock source at the same time to work synchronously, otherwise it will cause noise!)

4. CLOCK FREQUENCY

- 10.0000MHz
- 11.2896MHz
- 12.2880MHz
- 16.9344MHz
- 25.0000MHz
- 27.0000MHz
- 33.8688MHz
- 256fs AUTO

5. SPDIF MODE

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

- **NORMAL**
NORMAL mode, only use the digital receiver chip (DIR) to process the SPDIF signal, used in most occasions
- **PROCESSOR**
PROCESSOR mode, in this mode D2 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.

6. PCM FILTER

- SHARP
- SLOW
- SHORT SHARP
- SHORT SLOW
- SUPER SLOW
- LOW DISPERSION SHORT

7. DSD FILTER

- NARROW (DSD64/37kHz , DSD128/74kHz)
- WIDE (DSD64/65kHz , DSD128/131kHz)

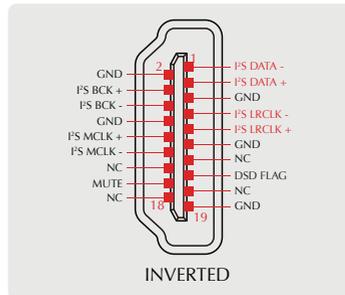
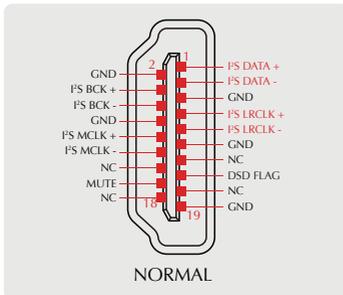
Note: The frequency response of DSD256 is 238kHz, DSD512 is 476kHz.

8. PRE MODE

- VOLUME VARIABLE
- VOLUME FIXED

9. I²S MODE

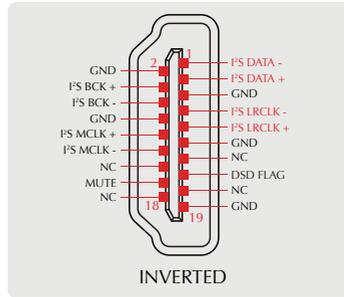
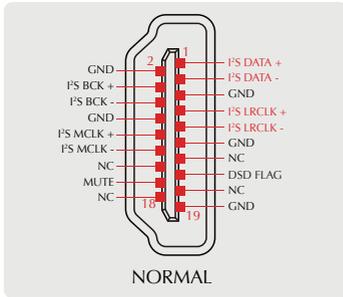
- NORMAL
- INVERTED



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

10. I²S DSD CHANNEL

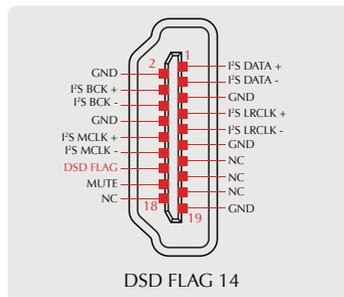
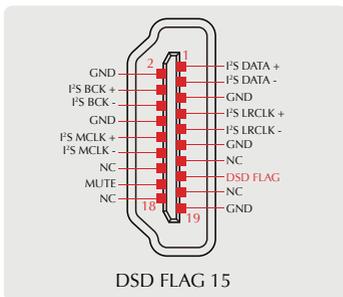
- DSDL=PCM DATA (The DSD left channel using the PCM DATA pin)
- DSDL=PCM LRCK (The DSD left channel using the PCM LRCK pin)



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

11. I²S DSD FLAG

- DSD FLAG=PIN15
- DSD FLAG=PIN14



12. FN KEY FOR

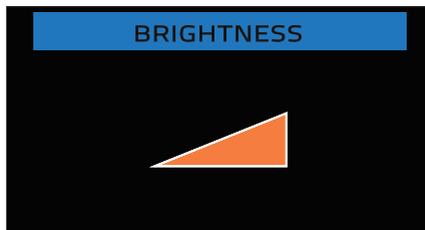
- Switch XLR/RCA
- ALL Outputs
- Bluetooth

13. DIMMER

- 5second ~ 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.)

14. BRIGHTNESS

- LEVEL1-6



15. 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.

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 D2”**, 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 D2, for example, going out, and back home, some phones will not re-connect the D2 if the D2 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 D2”**. In this case, you need to delete the Bluetooth device **“VMV D2”** 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.