S.M.S.L VMV D2R

S.M.S.L VMV D2R Audio DAC Instruction Manual

Model: VMV D2R

1. INTRODUCTION

The S.M.S.L VMV D2R is a high-performance Digital-to-Analog Converter (DAC) designed to deliver exceptional audio fidelity. It incorporates advanced technologies and premium components to ensure a superior listening experience. This manual provides detailed instructions for setting up, operating, and maintaining your VMV D2R DAC.

Image 1.1: Front view of the S.M.S.L VMV D2R Audio DAC.

2. KEY FEATURES

- **ROHM BD34301EKV DAC Chip:** Equipped with ROHM's flagship BD34301EKV DAC chip, optimized for ultra-low THD+N (-117dB) and high SNR (-130dB) for clear, undistorted sound.

- **XMOS XU316 USB Processor:** Features the 3rd generation XMOS XU316 solution, supporting PCM up to 32bit/768kHz and DSD native playback up to DSD512.

- **MQA & MQA-CD Support:** Full MQA decoding for supported file formats and MQA-CD playback via optical and coaxial inputs.

- **"CK-03" Clock Processing:** Incorporates the "CK-03" clock circuit for ultra-low jitter, ensuring precise audio timing.

- **Bluetooth 5.1 Connectivity:** Qualcomm's Bluetooth 5.1 technology with support for high-resolution

codecs including LDAC, AptX HD, AptX, SBC, and AAC, offering stable wireless transmission.
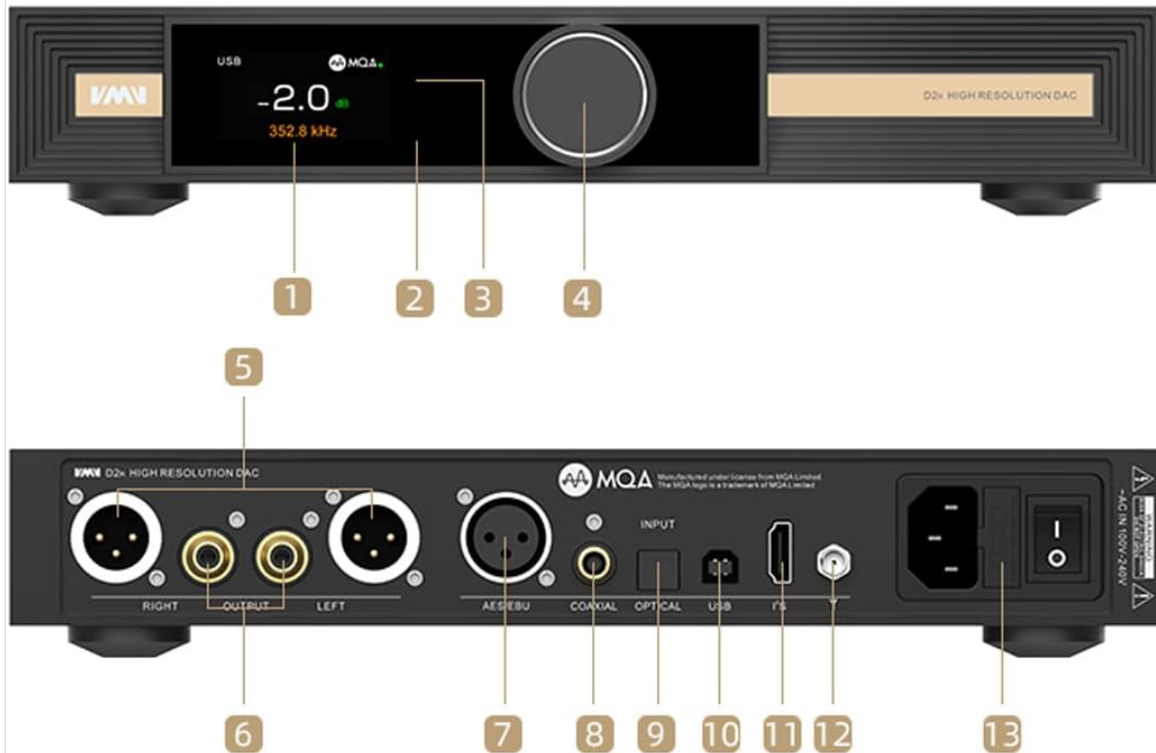
- **Multiple Inputs/Outputs:** Versatile input options including USB, Optical, Coaxial, I2S, Bluetooth, and AES. Outputs include RCA and XLR.

- **Reliable Power Supply:** Built-in linear power supply with a British Porcupine toroidal transformer and multiple low-noise regulated power supplies for stable and clean power delivery.

Image 2.1: Overview of the S.M.S.L VMV D2R's key features and technologies.

3. PRODUCT OVERVIEW

3.1 Front Panel

Image 3.1: Front and rear panel layout with numbered components.

1. Display
2. Indicator light
3. Remote window
4. Multi-function knob

3.2 Rear Panel

5. XLR output

6. RCA output

7. AES input

8. Coaxial input

9. Optical input

10. USB input

11. I²S input

12. Bluetooth antenna connector

13. AC IN (100V-240V AC)

4. Setup Instructions

4.1 Unpacking and Placement

- Carefully remove the VMV D2R from its packaging.

- Place the unit on a stable, flat surface away from direct sunlight, heat sources, and excessive moisture.

- Ensure adequate ventilation around the unit.

4.2 Connecting Audio Sources

The VMV D2R offers multiple input options. Choose the appropriate input cable for your audio source:

- **USB Input:** Connect your computer or other USB audio source to the USB input port (10) on the rear panel using a high-quality USB cable.

- **Optical Input:** Connect an optical cable from your source device to the Optical input port (9).

- **Coaxial Input:** Connect a coaxial cable from your source device to the Coaxial input port (8).

- **I²S Input:** For compatible devices, connect an I²S cable to the I²S input port (11).

- **AES Input:** Connect an AES/EBU cable from your source device to the AES input port (7).

- **Bluetooth:** Attach the provided Bluetooth antenna to the Bluetooth antenna connector (12).

4.3 Connecting to an Amplifier/Speakers

Connect the VMV D2R to your amplifier or active speakers using either RCA or XLR cables:

- **RCA Output:** Use RCA cables to connect the RCA output ports (6) to the corresponding analog inputs on your amplifier.

- **XLR Output:** For balanced connections, use XLR cables to connect the XLR output ports (5) to the balanced analog inputs on your amplifier.

4.4 Power Connection

- Connect the power cable to the AC IN port (13) on the rear panel.

- Plug the other end of the power cable into a suitable AC power outlet (100V-240V AC).

5. Operating Instructions

5.1 Power On/Off

- After all connections are made, flip the power switch on the rear panel to the "ON" position.

- The display (1) on the front panel will illuminate.

- To power off, flip the power switch to the "OFF" position.

5.2 Input Selection

- Use the multi-function knob (4) on the front panel or the remote control to navigate through the input options (USB, Optical, Coaxial, I2S, AES, Bluetooth).
- Rotate the knob to scroll through options and press to select.

5.3 Volume Control

- The multi-function knob (4) also controls the output volume. Rotate it clockwise to increase volume and counter-clockwise to decrease.
- Volume can also be adjusted via the remote control.

5.4 Bluetooth Pairing

- Select "Bluetooth" as the input source on the VMV D2R.
- On your mobile device, search for Bluetooth devices and select "S.M.S.L VMV D2R" to pair.
- Once paired, audio from your device will be streamed to the DAC.

5.5 MQA Playback

- When playing MQA content, the display will indicate MQA status.
- Ensure your audio source is configured to output MQA streams for full decoding.

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Video 5.1: A visual demonstration of the S.M.S.L VMV D2R's features and operation, including input selection and display information.

6. Maintenance

- Keep the unit clean by wiping it with a soft, dry cloth. Avoid using abrasive cleaners or solvents.
- Ensure the unit is powered off and unplugged before cleaning.
- Do not block the ventilation openings.

7. Troubleshooting

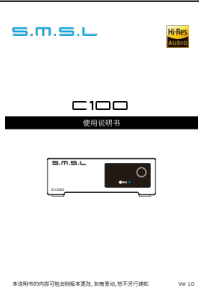| Problem	Possible Cause	Solution
No power	Power cable not connected; Power switch off	Check power cable connection; Ensure power switch is ON.
No sound output	Incorrect input selected; Cables loose; Amplifier off; Volume too low	Select correct input; Check all cable connections; Turn on amplifier; Increase volume.
Distorted sound	Poor cable connection; Source issue; Sample rate mismatch	Check cable integrity; Test with another source; Verify sample rate settings.
Bluetooth not connecting	Not in pairing mode; Device too far; Interference	Ensure Bluetooth input is selected; Move device closer; Reduce interference.

8. SPECIFICATIONS

- **Product Dimensions:** 11.02 x 9.28 x 2.01 inches
- **Item Weight:** 10.21 pounds
- **Item Model Number:** VMV D2R
- **DAC Chip:** ROHM BD34301EKV
- **USB Processor:** XMOS XU316
- **PCM Support:** Up to 32bit/768kHz
- **DSD Support:** Native DSD512
- **MQA Support:** Full MQA decoding, MQA-CD support
- **Bluetooth Version:** 5.1
- **Bluetooth Codecs:** LDAC, AptX HD, AptX, SBC, AAC
- **Inputs:** USB, Optical, Coaxial, Bluetooth, I²S, AES
- **Outputs:** RCA, XLR

9. WARRANTY AND SUPPORT

S.M.S.L is committed to providing excellent products and services. If you have any questions regarding your VMV D2R (including firmware updates, product issues, etc.), please feel free to contact us at any time. Please note that the MAC system does not support firmware updates.

Warranty information may vary. Please refer to your purchase documentation or contact S.M.S.L customer support for specific warranty details.

Related Documents - VMV D2R

	[SMSL AO300 User Manual: Hi-Fi DAC and Amplifier Guide](#) Comprehensive user manual for the SMSL AO300 Hi-Fi DAC and Amplifier, detailing features, specifications, operation, safety, and warranty information.
	[S.M.S.L C100 MQA USB DAC - User Manual & Specifications](#) Comprehensive user manual for the S.M.S.L C100 MQA USB DAC, detailing features, specifications, operation, safety, and warranty information.
	[SMSL RAW-MDA 1 User Manual and Specifications](#) Comprehensive user manual and technical specifications for the SMSL RAW-MDA 1 audio DAC and amplifier, covering features, functions, connectivity, and operation.

S.M.S.L Hi-Res AUDIO DL100 使用说明书/USER MANUAL/取扱説明書 本说明书的内容可随着该版本更新改有变动，恕不另行通知 Ver 1.0	**[S.M.S.L DL100 High-Resolution USB DAC User Manual	Features, Specifications, and Operation](#)** Comprehensive user manual for the S.M.S.L DL100 High-Resolution USB DAC. This guide covers safety notes, warranty terms, product features, detailed specifications, remote control operation, display interface, instructions for use, MQA playback, and connecting to ARC-compatible TVs via HDMI.
S.M.S.L Hi-Res AUDIO PL200 使用说明书/USER MANUAL 2:36 本说明书的内容可随着该版本更新改有变动，恕不另行通知 Ver 1.0	**[S.M.S.L PL200 MQA-CD Player User Manual](#)** Comprehensive user manual for the S.M.S.L PL200 MQA-CD Player, detailing features, specifications, operation instructions, safety precautions, and warranty information.
S.M.S.L Hi-Res AUDIO AO300 PRO 使用说明书/USER MANUAL/取扱説明書 本说明书的内容可随着该版本更新改有变动，恕不另行通知 本说明書の内容は改訂によって予告なしに変更される Ver 1.0	**[S.M.S.L AO300 PRO User Manual - High-Resolution Audio Amplifier](#)** Comprehensive user manual for the S.M.S.L AO300 PRO high-resolution audio amplifier, detailing safety precautions, warranty terms, features, technical specifications, component descriptions, operational instructions, remote control usage, connectivity guides, and package contents.