

S.M.S.L M300SE

S.M.S.L M300SE High-Performance Mini USB DAC

User Instruction Manual

1. INTRODUCTION

The S.M.S.L M300SE is a compact, high-performance Digital-to-Analog Converter (DAC) and headphone amplifier designed to deliver exceptional audio quality. It incorporates advanced technologies such as dual Cirrus Logic CS43131 DAC chips, a 3rd generation XMOS XU316 processor, and Bluetooth 5.0 connectivity. This manual provides essential information for setting up, operating, and maintaining your M300SE device.

Key features include:

- Dual Cirrus Logic CS43131 DAC chips for ultra-low distortion (0.00013% / -117dB).
- 3rd generation XMOS XU316 for PCM up to 32bit/768kHz and native DSD256.
- Full MQA decoding support.
- Reinforced glass panel and 1.29-inch OLED display with adjustable text color.
- CNC-machined aluminum alloy casing for durability and premium feel.
- True balanced output circuit with XLR terminals.
- 4.4mm balanced and 6.35mm unbalanced headphone outputs.
- Bluetooth 5.0 input with low latency and stable wireless transmission.
- Selectable output modes, preamp function, and remote control operation.
- Adjustable screen brightness and auto-off settings.
- Various digital filter modes and MQA-CD/DoP support for optical/coaxial inputs.

2. PACKAGE CONTENTS

Please check that all items are present in the package:

- S.M.S.L M300SE Unit
- Simple Instruction Manual
- Bluetooth Antenna

- Remote Control
- USB Cable



Image: S.M.S.L M300SE unit and its accessories, including the manual, Bluetooth antenna, remote control, and USB cable.

3. PRODUCT OVERVIEW

The S.M.S.L M300SE features a clear layout for easy operation and connectivity. Below are the main components and their functions:

Front Panel



Image: Detailed view of the front and back panels of the M300SE, highlighting all ports and controls.

- **Display:** Shows current input, sampling rate, and other status information.
- **Input Mode Switch:** Button to cycle through available input sources.
- **Power Switch:** Button to turn the device on or off.
- **6.35mm Headphone Jack:** Unbalanced headphone output.
- **4.4mm Balanced Headphone Jack:** Balanced headphone output.
- **Operation Knob:** Multi-function knob for volume control and menu navigation.

Rear Panel



Image: Close-up of the rear panel, showing all input and output ports.

- **Balanced (XLR) Output Terminals:** For connecting to balanced audio equipment.
- **3.5mm Line (RCA) Output Terminal:** For connecting to unbalanced audio equipment.
- **Coaxial Input:** Digital audio input.
- **Optical Input:** Digital audio input.
- **Bluetooth Antenna:** Connector for the included Bluetooth antenna.
- **Auxiliary Power (5V):** Optional power input for enhanced stability.
- **USB Input:** For connecting to a computer or other USB audio source.

4. SETUP

4.1 Power Connection

1. Connect the provided USB cable to the USB input port on the rear panel of the M300SE.
2. Connect the other end of the USB cable to a power source (e.g., a computer USB port or a 5V USB power adapter).

3. For optimal performance, especially when using high-impedance headphones, consider using the Auxiliary Power (5V) input with a dedicated 5V power adapter (not included).

4.2 Audio Input Connections

Choose one of the following input methods:

- **USB Input:** Connect your computer or other USB audio source to the USB input port on the rear panel using the provided USB cable.
- **Optical Input:** Connect an optical cable from your audio source to the Optical input port.
- **Coaxial Input:** Connect a coaxial cable from your audio source to the Coaxial input port.
- **Bluetooth Input:** Screw the Bluetooth antenna onto the designated connector on the rear panel.

4.3 Audio Output Connections

Choose the appropriate output for your listening setup:

- **Headphone Output:** Connect your headphones to either the 6.35mm unbalanced jack or the 4.4mm balanced jack on the front panel.
- **Balanced Line Output (XLR):** Connect XLR cables from the M300SE's XLR output terminals to your balanced amplifier or active speakers.
- **Unbalanced Line Output (RCA):** Connect a 3.5mm to RCA cable from the M300SE's 3.5mm line output to your unbalanced amplifier or active speakers.



Image: Close-up of the 4.4mm balanced and 6.35mm unbalanced headphone output terminals.

5. OPERATING INSTRUCTIONS

5.1 Power On/Off

Press the Power Switch button on the front panel or the remote control to turn the device on or off.

5.2 Input Selection

Press the Input Mode Switch button on the front panel or the 'Input Switch' button on the remote control to cycle through USB, Optical, Coaxial, and Bluetooth inputs.

5.3 Volume Control

Rotate the Operation Knob on the front panel or use the VOL+ / VOL- buttons on the remote control to adjust the volume level.

5.4 Display Settings

The M300SE allows adjustment of display brightness and auto-off settings:

- **Brightness:** Use the remote control to adjust the display brightness through 4 levels.
- **Auto-off:** Configure the screen display auto-off timer via the menu.

5.5 Preamp Mode

The M300SE can function as a DAC with fixed output or as a preamplifier with volume control. This setting is accessible through the device menu or remote control.

- **Preamp Mode ON:** The device acts as a preamplifier, allowing volume control of the line outputs (XLR/RCA).
- **Preamp Mode OFF (Pure DAC Mode):** The line outputs provide a fixed, maximum level signal, and volume control is bypassed.



Image: The M300SE display showing 'PreMode FIXED', indicating pure DAC mode.

5.6 MQA Playback

The M300SE supports full MQA decoding via its USB input, and MQA-CD playback via optical and coaxial inputs. When playing MQA content, the display will indicate 'MQA' or 'MQA Studio'.

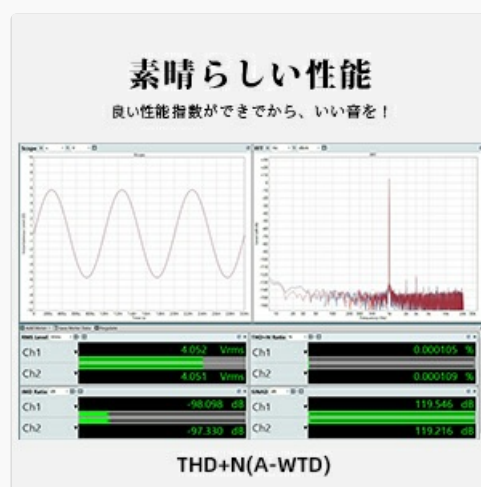


Image: Visual representation of MQA audio unfolding, indicating the M300SE's capability to deliver high-resolution audio.

5.7 Bluetooth Pairing

To connect a Bluetooth device:

1. Ensure the Bluetooth antenna is securely attached.

2. Select Bluetooth as the input source on the M300SE. The display will show 'BT'.
3. On your mobile device or computer, search for Bluetooth devices and select 'S.M.S.L M300SE'.
4. Once paired, audio will stream wirelessly to the M300SE.



Image: Illustration of the Bluetooth 5.0 chip, emphasizing stable and high-quality wireless audio transmission.

5.8 Remote Control Functions

The included remote control provides convenient access to various functions:



Image: Layout of the remote control with labeled buttons for various functions.

- **Power Switch:** Turns the device on/off.
- **Up/Down:** Navigation buttons for menu options.
- **Main Menu/Confirm:** Accesses the main menu and confirms selections.
- **Input Switch:** Cycles through input sources.
- **Mute Button:** Mutes/unmutes audio output.
- **FN Button:** Function button, typically for accessing specific settings or filters.
- **VOL+ / VOL-:** Adjusts volume up or down.

6. SPECIFICATIONS

Feature	Specification
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Feature	Specification
Brand	S.M.S.L
Model Number	M300SE
DAC Chip	2 x Cirrus Logic CS43131
USB Processor	XMOS XU316 (3rd Gen)
PCM Sampling Rate	Up to 32bit/768kHz
DSD Support	Native DSD256
MQA Support	Full MQA Decoding (USB), MQA-CD (Optical/Coaxial)
Bluetooth Version	5.0
Headphone Outputs	4.4mm Balanced, 6.35mm Unbalanced
Line Outputs	XLR Balanced, 3.5mm RCA Unbalanced
Digital Inputs	USB, Optical, Coaxial, Bluetooth
Display	1.29-inch OLED
Material	Aluminum Alloy
Dimensions (L x W)	16.5 cm x 7 cm
Weight	0.54 kg
Country of Origin	China

7. TROUBLESHOOTING

- **No Sound Output:**
 - Ensure the M300SE is powered on and the correct input source is selected.
 - Check all cable connections (USB, optical, coaxial, XLR, RCA, headphone).
 - Verify that the volume is not muted or set too low.
 - If using USB, ensure the correct audio output device is selected in your computer's sound settings. You may need to install specific drivers for your operating system (check the S.M.S.L website).
 - If using Bluetooth, ensure the device is properly paired and connected.
- **Distorted Sound:**
 - Check if the volume is too high, causing clipping. Reduce the volume.
 - Ensure the audio source is not sending a distorted signal.
 - Verify that the sampling rate and bit depth settings on your source device match the capabilities of the M300SE or are within its supported range.
 - Try a different audio cable to rule out cable issues.
- **Bluetooth Connection Issues:**

- Ensure the Bluetooth antenna is securely attached.
 - Make sure the M300SE is in Bluetooth input mode.
 - Move your Bluetooth device closer to the M300SE to ensure a strong signal.
 - Try unpairing and re-pairing the device.
 - Restart both the M300SE and your Bluetooth source device.
- **Display Not Working:**
 - Check if the display auto-off function is enabled and the screen has timed out. Press any button to reactivate.
 - Ensure the device is receiving power.

8. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the device. Avoid using abrasive cleaners, solvents, or strong chemicals, as they may damage the finish.
- **Storage:** Store the device in a cool, dry place away from direct sunlight and extreme temperatures.
- **Handling:** Handle the device with care to prevent physical damage. Avoid dropping or subjecting it to strong impacts.
- **Ventilation:** Ensure adequate ventilation around the device to prevent overheating. Do not block any ventilation openings.

9. WARRANTY AND SUPPORT

S.M.S.L products are manufactured to high-quality standards. For warranty information, please refer to the warranty card included with your product or visit the official S.M.S.L website. Keep your purchase receipt as proof of purchase for warranty claims.

For technical support, driver downloads, or further assistance, please visit the official S.M.S.L website or contact their customer service department. Contact details can typically be found on the product packaging or the official website.