S.M.S.L

Hi·Res AUDIO

M500

USER MANUAL

http://www.smsl-audio.com/

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 alesperson 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.

Warranty Terms

1. The term of service
   Foshan Shuangmusanlin Technology Co., Ltd. promises good quality products. If the product is defective by normal use within 7 days after purchasing, the customer can chose to send it back for returning or repairing (only the product does not affect the secondary sales can be returned). Faulty for free within one year warranty normal use.

2. Date of purchase is in accordance with the date on invoice or receipt uesd by seller, on line shopping can show the screenshot of trade.

3. Following situation can not enjoy"Three Guarantees service"
   a. All damages by human factors,including use it under non-normal working environment the and not follow manual in structions.
   b. User privately disassemble, modification, maintenance.
   c. Use non-designated or approved accessories cause damage.
   d. QC or warranty stickers damage on cabinet.
   e. Can not provide a valid purchasing prove.
   f. Not belong to Sabaj product.

4. How to guarantee
   These terms only suitable for China mainland, other region pleaserefer to the policy of the local sales agents and nations.

Features

- Supports MQA decoding;

- 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-208, 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);

- Independent headphone volume design, does not interfere with the preamp volume;

- Special design of discrete components high current headphones amplifier for higher damping factor;

- 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;

- High quality gold-plated input and output jacks;

- 3 high-end dual op-amps OPA1612 and a lot of audio grade components are used;

- 2.19 inch LG TFT LCD display;

- JAS Hi-Res certification;

- Equipped with remote control and full-function remote control.

Specifications

Input		USB / Opticalx2 / Coaxial
Output		RCA Headphone Amplifier/ RCA /XLR
THD+N		0.00015%
Dynamic range	XLR	125dB
	RCA	120dB
SNR		120dB
USB transmission		Asynchronization
USB compatibility		Windows 7 / 8 / 8.1 / 10, Mac OSX10.6 or Later, Linux
Bit depth	USB	1bit, 16 ~ 32bit
	Optical / Coaxial	1bit, 16 ~ 32bit
Sampling rate	USB PCM	44.1 ~ 768kHz
	DSD	2.8224 ~ 22.5792MHz
	Optical / Coaxial PCM	44.1 ~ 192kHz
	DSD	DSD64(DoP)
Headphone amplifier output power		570mW(32Ω)
		290mW(64Ω)
		125mW(150Ω)
		65mW(300Ω)
Power Consumption		5W
Standby power		<0.5W
Size		85x88x197mm (WxHxD)
Weight		0.91kg

Note

Firmware and driver download:
http://www.smsl-audio.com/cn/download.asp
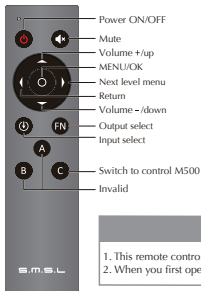
Remote Control

- Install 2 x AAA batteries 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.
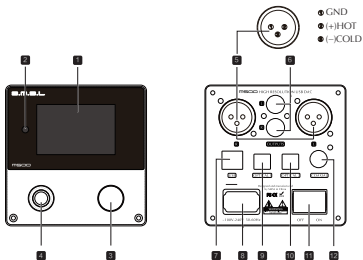
Operating the remote control

Power ON/OFF

Mute

Volume +/up

MENU/OK

Next level menu

Return

Volume –/down

Output select

Input select

Switch to control M500

Invalid

Note

1. This remote controller use 2 x R03/AAA battaries.
2. When you first operate M500, press the C key first.
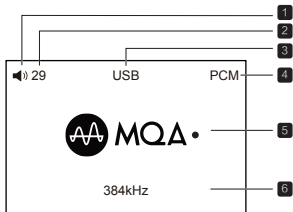
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Display Interface and Instructions

● GND
● (+)HOT
● (−)COLD

1	Display	2	Remote window	3	Knob*
4	6.35mm headphone jack	5	Balanced output	6	RCA output
7	USB input	8	AC IN	9	Optical 1 input
10	Optical 2 input	11	Power switch	12	Coaxial input

* Note: Knob
  1. Konb: Volume/Menu up or down
  2. Button: Press to Menu/Enter
          Hold to Return or Power ON/OFF

User Interface

1. Main

1、Output indicator and volume level

🔊) Line out，🎧 Headphones out

2、Volume Level

3、Input source

4、Stream indicator

5、Audio format indicator*

6、Current Sample rate (Display "NO SIGNAL" when unlock or no connection,
   or display "MUTING" when it is muting)

*Note：

When the PCM audio is 88.2 kHz or even more, it will display " ⬚ ".

When it is MQA audio, it will display " ◍ MQA ".

When it is DSD audio, it will display " DSD ".

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 M500 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

- The M500 supports MQA decoding on the USB interface.

- M500'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 M500 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.The M500 LED next to MQA logo glows magenta to indicate that the unit is rendering an MQA stream or file. This delivers the final unfold of the MQA file.

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

Setting

2. SETUP MENU

1. INPUT
   USB
   OPTI 1
   OPTI 2
   COAX

```
SETUP MENU
◄ INPUT
◄ OUTPUT
◄ FILTER
◄ DIMMER
◄ SYSTEM
```

2. OUTPUT
   LINE OUT
   HP OUT
   *Note:The output of circuit is both RCA
         and SLR output.

3. FILTER
   Fast Linear
   Slow Linear
   Fast Minimum
   Slow Minimum
   Apodizing
   Fast Hybrid
   Brickwall

(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.)

4. DIMMER
   LEVEL 1 ~ LEVEL 9

5. SYSTEM
   This page shows the system infomations, model name, version...

Factory Reset

Connect the power cord when pressing the power button, until the screen shows the logo. Then stop pressing and restart the unit.