

# AL2000

## USER MANUAL



The contents of this manual may change with the version,  
if there is any change without notice,  
please go to <https://www.smsl-audio.com/portal/product/support>.  
Download the latest version of the manual.

## 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.

### **Important note:**

The product specifications and information mentioned in this manual are for reference only. The content of this manual is subject to change without notice.

## 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.

## Features

- German Infineon's new digital high-power amplifier chip has higher quality, high efficiency, and low energy consumption;
- The use of Japan's JRC electronic volume control chip NJW1194, accurate volume control and ultra-low distortion;
- Support MQA decoding, support MQA-CD ;
- The new third generation XMOS XU-316, PCM support to 32bit/768kHz, DSD support to DSD256;
- Bluetooth 5.0 reception, longer transmission distance, better sound quality!
- All aluminum alloy CNC precision processing shell, anodizing technology and chamfering process, exquisite workmanship and delicate touch;
- Humanized operating system is simple to understand, equipped with full-featured remote control function;
- A large number of audiophile audio components to enhance the subjective sense of listening;
- High-quality gold-plated input. Output terminals;
- Perfect overheating, overcurrent protection circuit;
- Built in high-quality high-power audio special switching power supply.

## Specifications

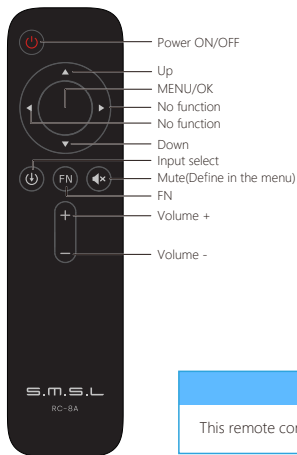
Input .....	RCA , BT , USB , Coaxial , Optical		
THD+N .....	0.003%		
SNR .....	107dB		
Channel separation .....	98dB		
Input Sensitivity / Input Impedance.....	280mV/22kΩ		
Output Power			
stereo.....	165Wx2(4Ω) / 85Wx2(8Ω)		
USB transmission.....	Asynchronization		
USB compatibility.....	Windows 7 / 8 / 8.1 / 10 / 11, Mac OSX, Linux		
MQA decoder.....	USB , Coaxial , Optical		
MQA decoder.....	Coaxial , Optical		
Bit depth.....	USB		1bit, 16~32bit
	Coaxial , Optical		1bit, 16~24bit
Sampling rate	USB	PCM	44.1~768kHz
		DSD	2.8224~11.2896MHz
	Coaxial , Optical	PCM	44.1~192kHz
		DSD	DSD64(DoP)
Power consumption.....	40W(normal volume)		
Size.....	210.5X41X198mm(WxHxD)		
Weight.....	1.78kg / 3.92Lbs		

SMSL reserves the right to make improvements which may result in specification or feature changes without notice.

## 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.

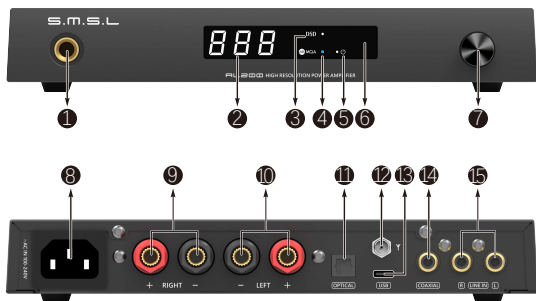
## Operating the remote control



### Note

This remote controller use 2 x R03/AAA batteries.

## Display Interface and Instructions



- |                           |                     |                        |
|---------------------------|---------------------|------------------------|
| 1 6.35mm headphone output | 2 Display           | 3 DSD indicator light  |
| 4 MQA indicator light     | 5 Standby indicator | 6 Remote window        |
| 7 Knob                    | 8 Power input       | 9 Right channel output |
| 10 Left channel output    | 11 Optical input    | 12 Bluetooth antenna   |
| 13 USB input              | 14 Coaxial input    | 15 LINE IN             |

## Operating Instructions

### Menu introduction

- When turned on, it will display **200** meaning AL200.

- When switching the input it will display



- When switching the output it will display



- 8 EQ menus

- **E0** Direct
- **E1** Tone
- **E2** SDB
- **E3** Bass
- **E4** Super Bass
- **E5** Rock
- **E6** Soft
- **E7** Clear

- In the treble adjustment will be displayed **E-9** ← **E 0** → **E 9**

- In the Bass adjustment will be displayed **b-9** ← **b 0** → **b 9**

- 3 brightness adjustment **bL1**, **bL2**, **bL3**

- Volume display **-00**, **-01**... **-60**

\*Volume blinks when mute

## Operating Instructions

### ■ Filter

- **FL1** Fast and Low-latency filter
- **FL2** Fast and Phase-compensated filter
- **FL3** Slow and Low-latency filter
- **FL4** Slow and Phase -compensated filter
- **FL5** Nonoversampling filter

**Note:** Filter function will be invalid while line input mode.

### ■ Enter the menu method

- Short press the MENU button to enter different options, rotate the knob to select, and then long-press MENU to exit;
- Use the remote control to enter the menu and make a selection.

### ■ LINE IN Instructions for Use

- The analog signal RCA input is selected to LINE IN , the AL200 selects the corresponding input to play music.

### ■ USB Instructions for Use

- Use the matching USB cable to connect to the computer, select the USB mode for AL200, and select USB AUDIO as the output in the sound option of the computer. It is recommended to set the computer volume to the maximum.

### ■ BT Instructions for Use

- Enter the selection to bt, turn on the Bluetooth of the mobile phone, search for the name SMSL AL200, click connect, the mobile phone plays music, it is recommended to adjust the volume of the mobile phone to the maximum.

### ■ Turn off the screen display

- In the startup state, press the remote control "FN" key, turn off the screen display, and then press the "FN" key to restore the screen display.



## 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 AL200 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.

## How to play MQA

- AL200 supports MQA decoding with USB, optical fiber and coaxial!
- AL200's MQA playback does not require the use of special playback software, such as foobar2000, Audirvanaplus only needs to support ASIO or WASAPI audio output, and when playing MQA audio, it is best to adjust the volume of the computer to the maximum,so that the audio output of the computer is in the best condition.
- When playing an MQA file, the sampling rate of the original master recording is displayed.



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## Notes on playing MQA-CD

- Please make sure that what is being played is a genuine MQA-CD.
- Verify that the optical or coaxial signal output of the CD player is an unprocessed source code.