S.M.S.L

MIO

Manual

安全注意事项

注 意
触电危险，
请勿打开。

注意：

为防电击，请勿打开机盖（或后盖）。本机内部无使用者可以维修的部件。请委托有资格的技术人员进行维修。

等边三角形中有箭头闪电标号的图形表示警告使用者在产品内有非绝缘的"危险电压"，可能会对人体造成很大的电击危险。

等边三角形中有感叹号的图形表示警告使用者该设备在操作与维护（维修）方面应严格按照所附设备说明书。

仅适用于海拔2000m以下地区安全使用。

仅适用于非热带气候条件下安全使用。

注意：为了完全切断本机的电源，请从墙上插座中拔出插头。
电源插头用于完全中断机器的电源供应。

特点

1. DAC使用AKM公司的旗舰音频解码芯片AK4497，超高信噪比，超低失真度，支持硬解DSD。

2. 第二代XMOS方案，PCM采样率最高支持32bit/768kHz,DSD支持到DSD512，独家定制支持Native DSD的驱动程序。

3. 使用了超低相噪的晶振，并且使用了高速的CPLD进行时钟处理极低的时钟抖动。

4. 采用2片Texas Instruments公司的HIFI耳机放大器TPA6120A2做平衡放大。

5. 使用5颗高端运放OPA1602及大量发烧元器件。

6. 高保真电子音量控制，避免左右声道不平衡。

7. 使用1.54时高分辨全视角彩色IPS显示屏。

8. 使用挪威NORATEL（箭猪）定制发烧变压器，电源部分独立设计，有效降低变压器振动，配合精心设计的电源电路，为音频提供出色的电源供应。

9. 配备遥控器方便远距离操作。

10. 全铝合金CNC精密加工机壳有效减少干扰。

11. 倾斜式面板设计增强视觉及操作体验。

温馨提示：

固件及驱动下载：
http://www.smsl-audio.com/cn/download.asp

技术参数

输入接口:	USB、光纤、同轴
输出接口:	线路(RCA)、XLR 6.35mm耳机、平衡耳机
THD+N:	线路输出: 0.0004%　耳放输出: 0.001%
动态范围:	123dB
信噪比:	116dB
USB传输方式:	异步传输
USB兼容性:	Windows 7/8/8.1/10、Mac OSX10.6以上 、Linux
位深:	USB: 1bit~32bit 光纤/同轴: 16bit~24bit
采样率:	USB: PCM: 44.1 ~ 768kHz DSD: 2.8224 ~ 22.5792MHz 光纤、同轴: 32 ~ 192kHz
RCA接口输出电平:	2Vms
XLR接口输出电平:	4Vms
耳机输出功率:	非平衡: 135mW（32欧）、90mW（64欧）、40mW（150欧）、22mW（300欧） 平衡: 340mW（32欧）、266mW（64欧）、154mW（150欧）、87mW（300欧）
消耗功率:	9W
待机功耗:	0.8W

关于遥控器

❶ 如果遥控器距离本机很近时操作仍无效，请用新电池更换。

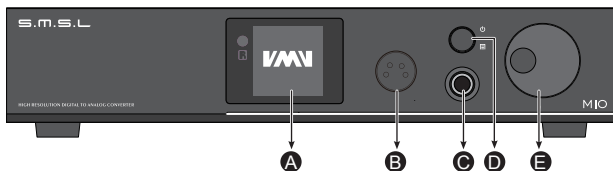❷ 如果要长时间不使用遥控器，请取出遥控器的电池。

❸ 按照电池处置的地方性法规处置废旧电池。

遥控器使用工作范围

大约8米（26英尺）

30° 30°

c

开关机
静音
音量加
菜单
切换功能

音量减
输出选择
音源选择
无功能

切换至控制M10
无功能

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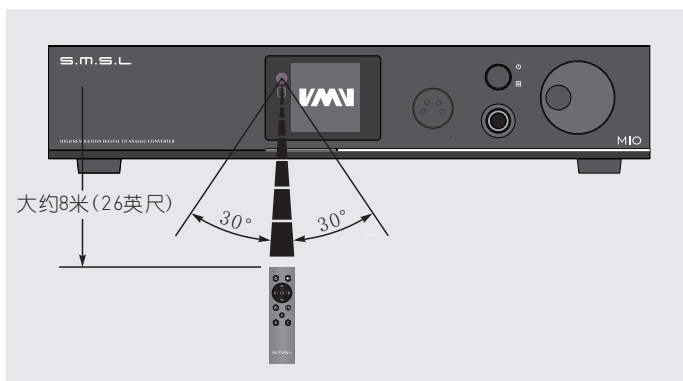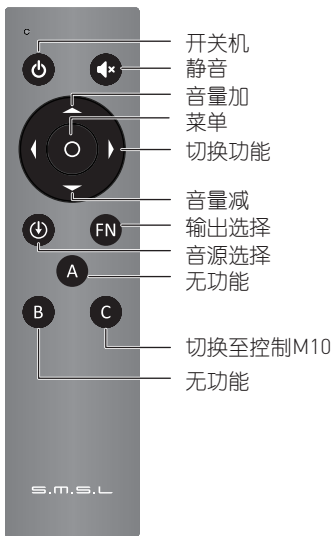
注 意

1. 遥控器请使用2节7号(AAA)电池
2. 第一次操作M10时,先按C键

操作说明

Ⓐ 显示屏

Ⓑ 平衡耳机接口

Ⓒ 6.35mm 耳机接口

Ⓓ 电源/菜单按键

在主界面下:
- 短按: 进入菜单
- 长按: 开/关机

在菜单下:
- 短按: 切换菜单项目
- 长按: 退出菜单,回到主界面

Ⓔ 旋钮

在主界面下: 旋转调节音量
在菜单里面

部件介绍

❶ 平衡输出　　❷ 线路输出　　❸ 同轴输入

❹ 光纤输入　　❺ USB输入　　❻ 电压选择开关

❼ 电源输入
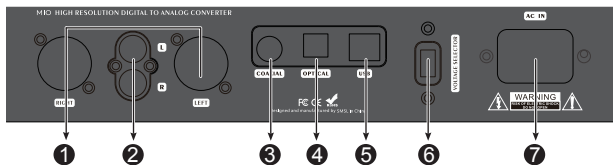
操作说明

❶ 显示采样率

- 当启用静音时此处显示"**MUTING**"
- 当无信号输入时此处显示"**NO SIGNAL**"

❷ 显示输入源

Hi-Res AUDIO 当采样率大于等于96kHz 时，图标显示Hi-Res

DSD 当播放DSD格式文件时，图标显示DSD

```
  ❹❺        ❻
❸ ◀» 15 PRE    FL1

❷          USB

❶        44.1kHz
```

❸ 输出接口

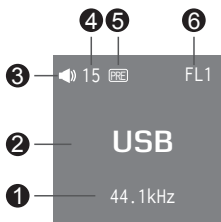◀» 显示这个图标时，输出口是RCA和XLR

🎧 显示这个图标时，输出口是单端或者平衡耳机

❹ 当前音量值

- 设备具有断电记忆音量大小功能，当上一次关机时的音量大于20时，下次使用设备音量会自动降为20

❺ 前级模式

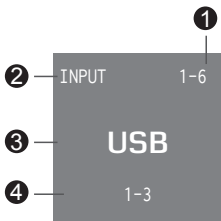- 当此LOGO点亮时，M10的前级功能打开，RCA和XLR的音量可调。

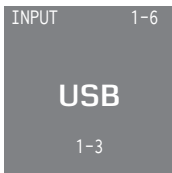**❻ 显示滤波器**

- M10总共内置了7种滤波方式，此处显示为当前的设定。

M10 菜单界面总体显示内容

❶ 主菜单的页码和总页数;

❷ 菜单项目;

❸ 菜单内容;

❹ 菜单选项的位置

```
❶ ─────────── INPUT     1-6
❷ ─ INPUT     1-6

❸ ─     USB

❹ ─     1-3
```

输入方式菜单

当前显示USB输入的方式进行播放,
通过旋动旋钮进行输入方式的切换。设备共
有3种输入

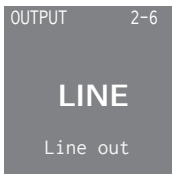USB ⟷ OPTI ⟷ COAX

```
INPUT     1-6

   USB

   1-3
```

输出方式菜单

当前显示线路输出方式,旋动旋钮切换输出方
式。设备共有 3 种输出方式,LINE 输出默认
平衡输出和线路输出为同时输出。

> LINE(RCA&XLR)
> ↕
> 6.35mm Headphone
> ↕
> Balanced Headphone)

```
OUTPUT     2-6

   LINE

   Line out
```

前级输出音量可调

当前显示 OFF 时代表设备前级输出音量不可调,
旋动旋钮切换为 ON 时,代表设备前级
输出音量可调。

> Pre AMP ON(RCA、XLR音量可调)
> ↕
> Pre AMP OFF(RCA、XLR音量不可调)

```
PRE-AMP     3-6

   OFF

   Pre AMP OFF
```
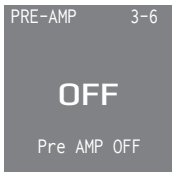
滤波器选择

当前显示 FLT1 代表第一种滤波方式，旋动旋钮切换滤波方式。该设备滤波方式共有 7 种，默认为第 3 种滤波

FLT1: Sharp Roll-off Filter (陡峭滚降)
FLT2: Slow Roll-off Filter (缓慢滚降)
FLT3: Short Delay sharp Roll-off Filter (低延时陡峭滚降)
FLT4: Short Delay Slow Roll-off Filter (低延时缓慢滚降)
FLT5: Super Sharp Roll-off Filter (超低延时陡峭滚降)
FLT6: Super Slow Roll-off Filter (超低延时缓慢滚降)
FLT7: Low Dispersion Shot Delay Filter (低离散短延时)

```
FILTER          4-6


          FLT1

          1-7
```

颜色选择

当前显示设备字体颜色为WHITE(白色)，旋动旋钮切换设备字体颜色。
该设备滤波方式共有 7 种颜色。

1 - WHITE(白色)
2 - RED(红色)
3 - BLUE(蓝色)
4 - GREEN(绿色)
5 - YELLOW(黄色)
6 - PURPLE(紫色)
7 - ORANGE(橙色)

```
COLOR           5-6


        YELLOW

          1-7
```

亮度调节菜单

当前显示LEVEL1代表设备屏幕亮度为1级，
旋动旋钮切换设备屏幕亮度。该设备共有9级亮度调节。

```
DIMMER          6-6


         LEVEL5

          1-9
```

恢复出厂设置

机器在未通电状态下，按住开机键再通电，直到显示屏显示logo之后，松开按键。

保修条款

一、服务期限

深圳市双木三林电子有限公司承诺产品的良好品质， 产品自售出之后7天内正常使用情况下出现故障 ，客户可以选择退货或者保修（不影响二次销售才可退货）。 正常使用一年内出现故障可以免费保修。

二、购买日期以销售商开出的购机发票或收据日期为准 ，多购可以交易截图为准。

三、有以下情况都不能享受"三包"服务
 • 一切人为因素损坏，包括非正常工作环境下使用或不按照说明书使用；
 • 用户私自拆机、改装、维修；
 • 使用非指定或许可的配件造成损坏的；
 • 机身的QC或保修贴损毁；
 • 不能出示有效购机凭证；
 • 不属于本公司产品。

四、保修方式为送修

此条款只适于中国大陆 ，其它地区请参考当地销售代理商的规定和国家法规。

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http://smsl-audio.com

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

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

The lightning lash 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.

Safe use only in the non- tropical climate conditions.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

Features

1 DAC uses AKM's flagship audio DAC chip AK4497, ultra-high signal-to-noise ratio, ultra-low distortion, and supports DSD

2 2nd gerneration of XMOS USB audio solution xCore200, PCM sampling support up to 32bit/768kHz, and DSD up to DSD512,

3 Low noise crystal and high speed CPLD form a very low jitter clock system for USB and DAC.

4 Balanced headphone drivers using 2 pieces of TPA6120A2 which features with high driving current and very low THD+N.

5 Use 5 high-end opamps OPA1602 and a large number of audio grade components.

6 High-fidelity electronic volume control to avoid imbalanced channel and volume adjusting noises.

7 Use 1.54 high-resolution full-view color IPS display.

8 Custom NORATEL power transformer, ultra-low noise, and very high efficiency make the M10 compact size and low noise!

9 Equipped with remote control for remote operation.

10 All-aluminum CNC precision machining enclosures effectively reduce interference.

11 Tilt-panel design enhances visual and operational experience.

Note

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

Specifications

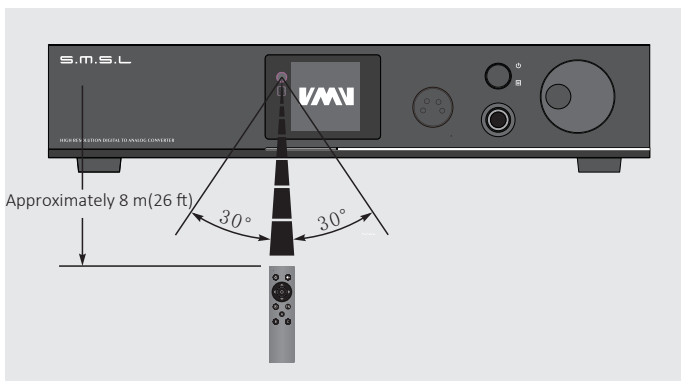Input interface: USB, optical, coaxial

Output interface: Line: RCA, XLR
                                 Headphone: Unbal, Balance

Output level   RCA: 2Vrms
                                 XLR: 4Vrm

THD+N: Line: 0.0004%
                                 Headphone: 0.001%

Dynamic Range: 123dB

Signal to noise ratio: 116dB

USB Compatibility: Windows 7/8/8.1/10,
                                 Mac OSX10.6 or above, Linux

Bit depth: USB: 1bit~32bit
                                 Optical/Coaxial: 16bit~24bit

Sample rate: USB: PCM: 44.1 ~ 768kHz
                                 DSD: 2.8224 ~ 22.5792MHz
                                 Optical/Coaxial: 32 ~ 192kHz

Headphone output power: Unbalanced: 135mW(32 Ω), 90mW(64 Ω),
                                 40mW(150 Ω), 22mW(300 Ω)
                                 Balance: 340mW(32 Ω), 266mW(64 Ω),
                                 154 mW(150 Ω), 87mW(300 Ω)

Power consumption: 9W
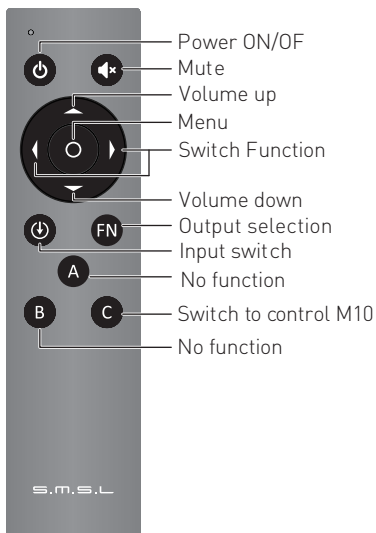
Standby power consumption: 0.8W

Remote control

❶ Install 2 x AAA batteries as instructions

❷ 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.

❸ 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
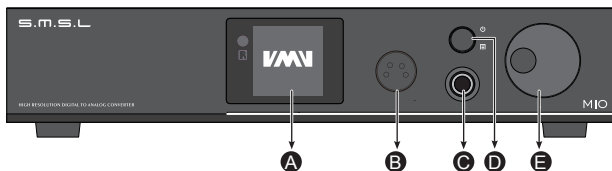
Operating range of the remote control

Approximately 8 m(26 ft)

30° 30°

Remote control

Power ON/OF
Mute
Volume up
Menu
Switch Function

Volume down
Output selection
Input switch
No function
Switch to control M10
No function

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Note

1. This remote controller use 2 x R03/AAA battaries;

2. When you first operate M10,press the C key first

Front Panel

Ⓐ Display

Ⓑ Balanced Headphone

Ⓒ 6.35mm Headphone

Ⓓ Power/Menu Button

At main display
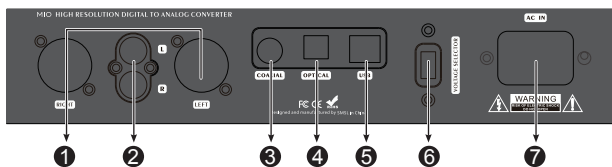- Press into MENU
- Hold to Power ON/OFF

At menu pages
- Press to switch between menu item and settings
- Hold to return to main display

Ⓔ Knob

At main display, rotate to change volume

At menu pages, rotate to switch items

Back Panel

❶ Balanced output   ❷ Line output   ❸ Coaxial input

❹ Optical input   ❺ USB input   ❻ Voltage Selection

❼ Power Inlet

SETTINGS

❶ SAMPLING RATE FREQUENCY

- **MUTING** is displayed here when mute is enabled.
- **NO SIGNAL** displayed here when no signal is input

❷ INPUT SOURCE

Hi-Res AUDIO when the input signal met the Hi-Res standard (>24bit/96kHz), this logo will display instead of input source!

DSD when the input signal is DSD, this logo will display instead of input source

❸ OUTPUT PORT

🔊 display a spearker when using RCA/XLR line output

🎧 display a headphone when using 6.35mm/Balanced headphone output

❹ VOLUME LEVEL

M10 has the volume limit function, if the vol is higher than 20 when power off, the vol will limit to 20 when next power on!

❺ PRE-AMP MODE

This icon is for line ouput (RCA and XLR), when the PRE-AMP mode ON, the volume of RCA and XLR is variable, otherwise the volume are fixed.
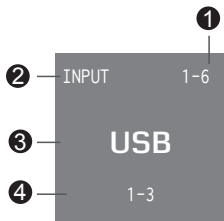
❻ DIGITAL FILTER

This position is for the digital filter mode, there is total 7 mode built-in M10
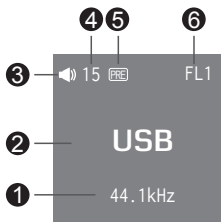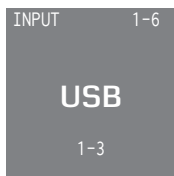
MENU SETTINGS

❶ Current setting of total pages

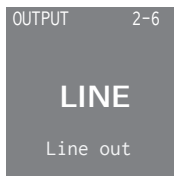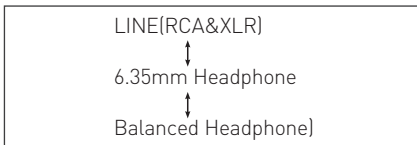❷ Setting Nam

❸ Setting Cone

❹ Setting position of total opti

```
❶
❷ — INPUT        1-6

❸ —      USB

❹ —       1-3
```

INPUT

This setting changes the input path of digital audio, and when set to coaxial or optical, the USB will disconnect with PC.

```
USB  ⟷  OPTI  ⟷  COAX
```

```
INPUT        1-6

    USB

     1-3
```

OUTPUT

This setting change the ouput path of audio, when selecting "LINE", both RCA and XLR will work at the same time, but the "6.35mm" headphone and "Balanced" headphone cannot work at the same time!

```
           LINE(RCA&XLR)
                ↕
        6.35mm Headphone
                ↕
        Balanced Headphone)
```

```
OUTPUT       2-6

    LINE

   Line out
```

PRE-AMP MODE

M10 can act as a pre-amplifier when this mode is
enabled, in this mode you can use M10 to hook up with
an active speakers and use M10 to adjust the volume.

> Pre AMP ON (RCA/XLR volume variable)
>
> $\updownarrow$
>
> Pre AMP OFF (RCA/XLR volume fixed)

```
PRE-AMP      3-6


   OFF

Pre AMP OFF
```

DIGITAL FILTER

There are 7 kinds of digital filter in M10, they are:

FLT1: Sharp Roll-off Filter
FLT2: Slow Roll-off Filter
FLT3: Short Delay sharp Roll-off Filter
FLT4: Short Delay Slow Roll-off Filter
FLT5: Super Sharp Roll-off Filter
FLT6: Super Slow Roll-off Filter
FLT7: Low Dispersion Shot Delay

```
FILTER       4-6


   FLT1

    1-7
```

COLOR

There are 7 kinds of text color in M10, they are :

1 - WHITE
2 - RED
3 - GREEN
4 - BLUE
5 - YELLOW
6 - PURPLE
7 - ORANGE

```
COLOR        5-6


  YELLOW

    1-7
```

BRIGHTNESS

There are 9 levels of display brightness in M10,
find a good level for your eye's health.

```
DIMMER       6-6


  LEVEL5

    1-9
```

Factory Reset

Connect the power wire when pressing the power button, until screen shows logo.

Warranty terms

1. The term of service
   Shenzhen SuangMuSanLin Electronics Co.,LTD promise good quality products. If product is defective unit by normal use within 7 days after purchasing. The customer can chose to return or repair warranty (does not affect the secondary sales after they can return). Faulty for free within one year warranty normal use.

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

3. Following situation can not enjoy'Three Guarantees'service:
   • All damages by human factors, including use it under non-normal working environment the and not follow manual in structions.
   • User privately disassemble, modification, maintenance;
   • Use non-designated or approved accessories cause damage;
   • QC warranty stickers damage on cabinet;
   • Can not provide avalid purchasing prove;
   • Not belong to SMSL products.

4. How to warranty
   This terms only suitable for China mainland, other region please refer to the policy of the local sales agents and national.