

S.M.S.L

SA-50 Plus

深圳市双木三林电子有限公司

安全注意事项

为了确保最好的性能，请仔细阅读本说明书，并妥善保管以备日后查阅。

警告

- ① 请将本音响系统安装在通风良好、阴凉、干燥、干净的位置，远离直射阳光、热源、振动、灰尘、潮湿和/或寒冷。
- ② 不要将本机从温度反差大的寒冷地方突然搬到温热地方，也不要将本机放置在非常潮湿的环境里（例如放置有加湿器的房间），以免本机内部结露。因为结露可能导致触电，火灾而损坏本机和/或造成人身伤害。
- ③ 避免将本机安装在异物容易掉落的地方，也要避免那些液体容易滴入或飞溅到的地方。
- ④ 本机的上面，请不要放置下列物品：
 - 其他装置。因为这样有可能会造成损坏和/或导致本机表面变色。
 - 可燃物品（例如蜡烛）。因为这样有可能导致火灾而损坏本机和/或造成人身伤害。
 - 装有液体的容器。因为有容器反倒，液体流淌的可能，如此有可能导致用户触电和/或损坏本机。
- ⑤ 不要在本机上面覆盖报纸，台布，窗帘等，以免妨碍散热。如果本机内部温度过高，则有可能导致火灾，损坏本机和/或造成人身伤害。
- ⑥ 在使用开关，旋钮和/或缆线时，不要用力过猛。
- ⑦ 当从墙壁电源插座上断开电源线的连接时，请抓住交流电源插头；而不要拉拽电线。
- ⑧ 不要使用化学溶剂清洗本机，否则会损伤表面涂层。请使用干净的布匹。
- ⑨ 只能使用本机指定的电压。使用高于指定数值的电压很危险，而且可能导致火灾，损坏本机和/或造成人身伤害。对于使用高于指定电压造成的任何损害，双木三林将不负任何责任。
- ⑩ 不要试图自行改造或修理本机。如果需要任何服务，请就近与有资格的双木三林维修人员联系。不管有任何理由，都没有打开机壳的必要。
- ⑪ 如果打算长时间不使用本机（比如度假时），请从墙壁交流电源插座上断开电源线的连接。
- ⑫ 搬动本机前，请从墙壁电源插座上断开电源线的连接。
- ⑬ 请务必使用本机附带的AC适配器。使用附带的AC适配器以外的适配器可能导致火灾或损害本机。
- ⑭ 将本机安装在墙壁电源插座附近和容易连接电源线的地方。
- ⑮ 为了加强对于本产品的保护，在雷电期间，或无人管理时以及长时间不使用时，请将电源线从墙壁上的电源插座上拔下。这样将防止该产品在闪电和电网出现电涌时受到损害。

特点

- ① 使用了三核数字音频专业处理器：32位RISC处理器+双DSP数字音频处理单元；完美解码32bit / 192 kHz高规格音乐
- ② 采用美国TI公司最新的智能功放芯片TAS5766M
- ③ 内置双木三林专利音效SDB（SMSL Dynamic Bass）

备注：

SDB介绍：

双木三林公司专业的音效，能有效的提升声音的还原度，此音效不只对低音进行提升，同时还会根据当前的音乐信号对高音和低音进行动态调节，以达到最佳的欣赏效果！

技术参数

输入方式：	USB（U盘）/SD卡/3.5mm光纤/3.5mm模拟
THD+N：	0.015%
信噪比：	95dB
通道分离度：	94dB
采样率：光纤	16bit/24bit 44.1kHz~192kHz
输出功率：	50W+50W@4欧
消耗功率：	40W
待机功率：	1W
最大曲目扫描数量：	1000
最大文件夹扫描深度：	3层

文件格式

MP3

扩展名：.mp3, .MP3

标准：MPEG-1/MPEG-2 Audio Layer-3

采样率：8 k/11.025 k/12 k/16 k/22 .05 k/24 k/32 k/44.1 k/48 kHz

比特率：8 kbps - 320 kbps or VBR

WMA

扩展名: .wma, .WMA

采样率: 8 k/11.025 k/16 k/22.05 k/32 k/44.1 k/48 kHz

比特率: 5 kbp s - 320 kbps or VBR

WMA Lossless

扩展名: .wma, .WMA

采样率: 44.1 k/48 k/88.2 k/96 kHz

位 深: 16/24-bit

WAV

扩展名: .wav, .WAV

采样率: 8 k/11.025 k/12 k/16 k/22 .05 k/24 k/32 k/44.1 k/48 k/
88.2 k/96 k/176.4k/192 kHz

位 深: 8/16/24-bit

AAC

扩展名: .aac, .m4a,, AAC, M4A

标 准: MPEG -2/MPEG-4 音频

采样率: 8 k/11.025 k/12 k/16 k/22 .05 k/24 k/32 k/44.1 k/48 k/
88.2 k/96 kHz

比特率: 8 kbps - 320 kbps or VBR

APE

扩展名: .ape,.APE

标 准: Monkey's audio

采样率: 44.1k/48k/88.2k/96k/176.4k/192kHz

比特率: 16/24-bit

FLAC

扩展名: .flac, .FLAC

采样率: 8 k/11.025 k/12 k/16 k/2 2.05 k/24 k/32 k/44.1 k/48 k/
88.2 k/96 k/176.4 k/192 kHz

位 深: 8/16/24-bit

Apple Lossless

扩展名: .m4a,.M4A

采样率: 8 k/11.025 k/12 k/16 k/22 .05 k/24 k/32 k/44.1 k/48 k/
88.2 k/96 kHz

位深: 16/24-bit

CUE*

扩展名: .cue,.CUE

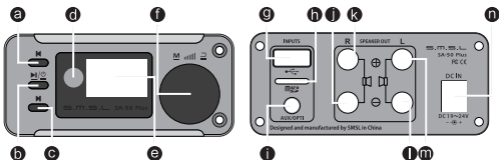
CUE*: 由于内存限制, 目前进行了如下限制(两个条件不满足其中一项即停止CUE解析):

① 最多解析100个音轨CUE文件

② 最多只能存储300首解析后的文件

超出范围没有解析的CUE文件则会整轨播放

操作说明



a 单击重播当前曲目, 双击上一曲,
长按上一曲快速切换

b 长按开关机, 短按播放或暂停

c 短按下一曲, 长按下一曲快速切换

d 遥控接收窗

e 显示屏

f 在播放界面下, 短按静音或解除静音,
长按进入菜单, 左右旋转调节音量大小;
在菜单界面下, 旋转选择菜单, 短按确认,
长按返回上一级菜单

g U盘或移动硬盘

h micro SD卡

i 3.5mm模拟/光纤输出

j 右声道输出-

k 右声道输出+

l 左声道输出-

m 左声道输出+

n 电源输入

注:

使用U盘进行固件更新*: 先将播放器固件rom.upd文件放在U盘根目录, 按住**1** 旋钮后, 机器再开机直到屏幕, 出现NO USB, 插入U盘自动执行升级, 当进度提示100%时升级完成。

固件更新*: 官方将不定时发布固件更新, 升级后可获得新功能或提升性能。

遥控器功能介绍



注意事项

本遥控器有A、B、C三种状态, 只有A状态才能操控SA-50 Plus, B和C状态操控无效。

播放功能介绍

设备初次开机完成时, 屏幕显示界面 (图1)



(图1)

- ① 当前输入源
- ② 当前没有存储设备接入 (接入存储设备时会变成Searching*并闪烁, 此时扫描歌曲文件, 完成时会自动进入播放界面并播放。)

Searching*: 媒体扫描时间的长短, 将会根据接入存储设备内的媒体数量而决定, 当文件较多时扫描时间将会延长。

长按右边编码开关进入菜单（如图2），当没存储设备接入时，为避免误操作某些功能项会自动隐藏（如图3）



(图2)



(图3)



- ③ 输入源设置 (Input)
USB→S D Card→Optical In→AUX
- ④ SDB音效 (SD OFF)
SDB OFF/ON
- ⑤ 音调调节 (Tone)
Bass (0~3) Treble (0~3)
- ⑥ 播放模式 (Play Mode)
Default→Repeat All→Random→Repeat Tract
- ⑦ 屏幕保护功能设置 (Display)
Auto Weaken S creen(自动降低屏幕亮度时间)
5s→15s→30s→60s→OFF
Auto TurnOff Screen (自动关闭屏幕时间)
5s→15s→30s→60s→OFF
- ⑧ 版本号 (Verinfo)
- ⑨ 恢复出厂设置 (Reset)
Factory Reset (恢复所有系统设置为出厂状态)
Retrun (返回并取消)
- ⑩ 当前播放模式
- ⑪ 当前播放曲目名称
- ⑫ 当前播放状态
- ⑬ 当前播放时间
- ⑭ 当前播放曲目采样率/比特率或位深 (当静音状态时, 该区域显示为MUTING, 此时输出静音)
- ⑮ 当前播放曲目类型



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”，可能会对人體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以下地区使用。



仅适用于非热带气候条件下安全使用。

The logo graphic consists of a dark grey triangle pointing downwards, with a light grey diagonal stripe running from the top right corner towards the bottom left. The text 'S.M.S.L' is positioned in the upper left area of the dark grey triangle.

S.M.S.L

SA-50 Plus

Shenzhen Shuangmusanlin Electronics Co., Ltd.

Safety Notes

To assure the best performance, please read this manual carefully. Keep it in a safe place for future reference.

Warning

- ❶ Install this unit in a well ventilated, cool, dry, clean place – away from direct sunlight, heat sources, vibration, dust, moisture, and/or cold.
- ❷ Do not expose this unit to sudden temperature changes from cold to hot, and do not locate this unit in an environment with high humidity (i.e. a room with a humidifier) to prevent condensation inside this unit, which may cause an electrical shock, fire, damage to this unit, and/ or personal injury.
- ❸ Avoid installing this unit where foreign objects may fall onto this unit and / or this unit may be exposed to liquid dripping or splashing .
- ❹ On the top of this unit , do NOT place:
 - Other components, as they may cause damage and/or discoloration on the surface of this unit.
 - Burning objects (i.e. candles) , as they may cause fire , damage to this unit , and/or personal injury.
 - Containers with liquid in them, as they may fall and liquid may cause electrical shock to the user and/or damage to this unit.
 - Do not cover this unit with a newspaper, tablecloth, curtain , etc. in order not to obstruct heat radiation. If the temperature inside this unit rises, it may cause fire, damage to this unit, and /or personal injury.
- ❺ Do not use force on switches, knobs, and/or cords.
- ❻ When disconnecting the power cable from the wall outlet, grasp the AC plug; do not pull the cord.
- ❼ Do not clean this unit with chemical solvents; this might damage the finish.
- ❽ Use a clean, dry cloth.
- ❾ Only the voltage specified on this unit must be used. Using this unit with a higher voltage than specified is dangerous and may cause fire , damage to this unit, and/or personal injury. SMSL will not be held responsible for any damage resulting from use of this unit with a voltage other than that specified.
- ❿ Do not attempt to modify or fix this unit. Contact qualified SMSL service personnel when anyservice is needed. The cabinet should never be opened for any reason.
- ⓫ 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.
- ⓬ Before moving this unit, disconnect the power cable from the wall outlet.
- ⓭ Be sure to use the AC adaptor supplied with this unit. Using an AC adaptor other than the one provided may cause fire or damage to this unit.
- ⓮ Install this unit near the wall outlet and where the power cable can be reached easily.
- ⓯ For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet. This will prevent damage to the product due to lightning and power-line surges.

Note

The plug severed from the mains lead must be destroyed, as a plug with bared flexible cord is hazardous if engaged in a live socket outlet.

Features

- ① SA-50 plus uses professional tricore-digital audio processor. 32bitRISC processor and dual DSP digital audio processing unit. Well decoding 32 bit /192kHz music.
- ② Using the latest amplifier chip of TAS5766M from TI company in USA.
- ③ Built-in SDB sound which patented belongs to S.M.S.L(SMSL Dynamic Bass).

SDB:

SDB sound which patented belongs to S.M.S.L, it improves the fidelity of sound . For the best sound effects . SDB is not only improve bass, but also will adjust dynamic for bass and treble according to input source.

Specification

Input:	USB(U-disk)/SD card/3.5mm optical/3.5mm analog
THD+N:	0.015%
SNR:	95dB
Channel separation:	94dB
Sampling rate: Optical	16bit/24bit 44.1kHz~192kHz
Output power:	50W+50W@4Ω
Consumption power:	40W
Standby power:	1W
Max. Files quantity scannable:	1000
Max. File folder layer scannable:	3 layer folder

File format

MP3

Extension:	.mp3, .MP3
Standard:	MPEG -1/MPEG-2 Audio Layer-3
Sampling frequency:	8 k/11.025 k/12k/16 k/22 .05 k/24 k/32 k/ 44.1 k/48 kHz
Bit rate:	8 kbps-320 kbps or VBR

WMA

Extension: .wma, .WMA

Sampling frequency: 8 k/11.025 k/16 k/22.05 k/32 k/44.1 k/48 kHz

Bit rate: 5 kbps–320 kbps or VBR

WMA Lossless

Extension: .wma, .WMA

Sampling Frequency: 44.1 k/48 k/88.2 k/96 kHz

Quantization bit rate: 16/24-bit

WAV

Extension: .wav, .WAV

Sampling Frequency: 8 k/11.025 k/12 k/16 k/22 .05 k/24 k/32k/
44.1 k/48 k/ 88.2 k/96 k/176.4k/192 kHz

Quantization bit rate: 8/16/24-bit

AAC

Extension: .aac, .m4a,, AAC, M4A

Standard: MPEG-2/MPEG-4 audio

Sampling Frequency: 8 k/11.025 k/12 k/16 k/22 .05 k/24 k/32 k/
44.1 k/48 k/ 88.2 k/96 kHz

Bit rate: 8 kbps–320 kbps or VBR

APE

Extension: .ape, .APE

Standard: Monkey's audio

Sampling Frequency: 44.1k/48k/88.2k/96k/176.4k/192kHz

Bit rate: 16/24-bit

FLAC

Extension: .flac, .FLAC

Sampling Frequency: 8 k/11.025 k/12 k/16 k/2 2.05 k/24 k/32 k/
44.1 k/48 k/ 88.2 k/96 k/176.4 k/192 kHz

Quantization Bit rate: 8/16/24-bit

Apple Lossless

Extension: .m4a, .M4A

Sampling Frequency: 8 k/11.025 k/12 k/16 k/22 .05 k/24 k/32 k/
44.1 k/48 k/88.2 k/96 kHz

Quantization Bit rate: 16/24-bit

CUE*

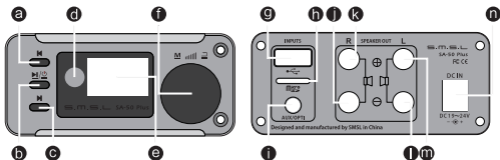
Extension: .cue, .CUE

CUE*: For memory limit, currently limits as below (Meet one
of those two requirements, CUE analysis stop.):

- ① 100 tracks cue file can analysis most.
- ② 300 analysed file can save most.

If cue file out of range and without analysis, Whole
track will playback.

Parts Names and Instruction



- a One-click to track. Double-click to select previous track. Press and hold this button to fast-switching to previous track.
 - b Press and hold to on/off unit, Press to start or pause playback.
 - c Press this button to play next track. Press and hold to fast-switching to next track.
 - d Remote control sensor
 - e Display
 - f Press to mute or unmute during playback. Press and hold into menu selection, volume control by revolving knob.
- During menu interface, revolving knob enter to menu selection and press it to select, press and hold back to previous menu

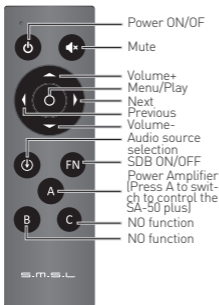
- g U-Disk or HDD
- h micro SD card
- i 3.5mm analog /optical output
- j right channel output-
- k right channel output+
- l left channel output-
- m left channel output+
- n power input

Note:

Firmware update by U-Disk: Save rom.upd file of player firmware into U-Disk root directory. Powering on player. When SA-50 PLUS shows logo, please press **f** button first and then press on/off button until screen shows "NO USB". Then plug U-Disk into SA-50 PLUS to automatically update. When screen appear 100%, update finish.

Firmware update: New firmware update will release untimed. New functions or improving performance after updates.

Remote controller



NOTE

The remote control has A . B. C three kinds of states, only controllable for SA-50 Plus under state A. State B and C is invalid to SA-50 Plus.

Desktop Screen

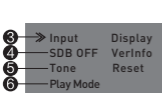
When first time power on machine, screen shows as figure 1



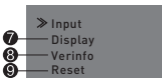
(figure 1)

Searching*: Scanning time depends on files quantity saved in U-Disk. Scanning time will prolong if have much files.

Long-press code switch on left into MENU (Figure 2). When no memory device plugged into, To avoid improper operation, some of functions will automatically hide (figure 3).



(Figure 2)



(Figure 3)



- ① Input
- ② Into memory device plug no SA-50 PLUS (When plug U-Disk, it will appear flash "Searching", after all music file scan finish. it will go into playback screen.)

- ③ Input
USB → S D Card → Optical In → AUX
- ④ SD OFF
SDB OFF/ON
- ⑤ Tone
Bass (0-3) Treble (0-3)
- ⑥ Play Mode
Default → Repeat All → Random → Repeat Tract

- ⑦ Display
Auto Weaken S creen
5s → 15s → 30s → 60s → OFF
Auto TurnOff Screen
5s → 15s → 30s → 60s → OFF

- ⑧ Verinfo
- ⑨ Reset
Factory Reset
Retrun

- ⑩ Playback mode
- ⑪ Music File name
- ⑫ Playback status
- ⑬ Playback time for curret music file
- ⑭ Playback music sampling rate / bit Rate or depth rate (When SA-50 PLUS mute active, it shows MUTING here)
- ⑮ Playback music file format