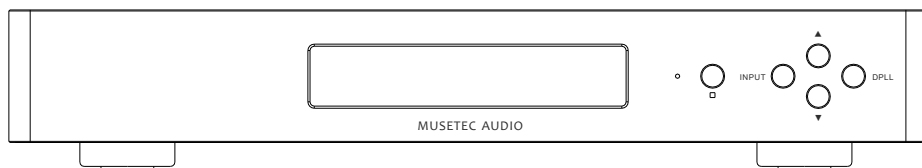


MUSETEC AUDIO

MH-DA005 User's Manual

用户手册



MUSETEC AUDIO

尊敬的用户，感谢惠购沐声音频产品。在使用产品前，请详阅用户手册，以了解本机的正确操作方法。阅读完毕后，请妥善保存此手册，以备日后参考。

Dear customer, thank you for choosing MUSETEC Audio products. Before use, please read this document patiently, in order to understand the correct operation of your machine.

注意！

在接入电源前，请确认您订购的机器工作电压需求，一般分为110V和220V两种规格，订货时需要明确自己家庭的用电电压。为避免触电危险，请勿自行拆卸机盖或背板。

Notice!

Before use, please confirm your family electric voltage. Make sure the product you ordered is right. Usually we make two kinds of specifications, 110V and 220V .

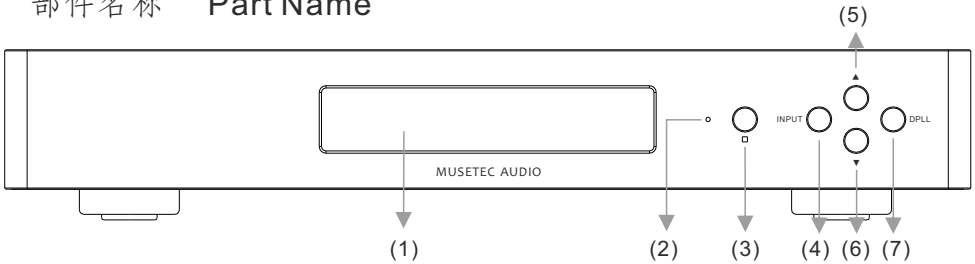
In order to avoid the risk of electric shock, do not disassemble the product.

MUSETEC AUDIO

开箱检查 Out of Box Audit

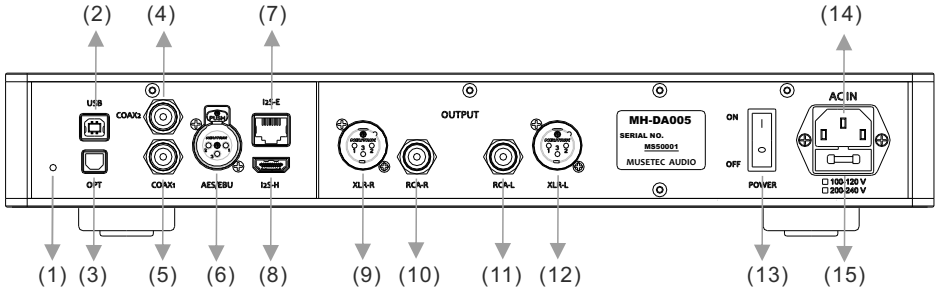
| | | |
|-----------------|-------------------|----|
| • MH-DA005解码器主机 | MH-DA005 DAC | x1 |
| • 遥控器 | Remote Controller | x1 |
| • 电源线 | AC Power Cable | x1 |
| • USB线 | USB cable | x1 |
| • 保修卡 | Warranty Card | x1 |
| • U盘 | USB Flash Disk | x1 |
| • 螺丝刀 | Screwdriver | x1 |

部件名称 Part Name



| | |
|-----------|----------------------|
| (1) 显示屏 | Displayer |
| (2) 待机指示灯 | Standby LED |
| (3) 待机按键 | Standby Key |
| (4) 输入选择 | Input Select Key |
| (5) 音量加 | Volume Ramp Up Key |
| (6) 音量减 | Volume Ramp Down Key |
| (7) 锁相环按键 | DPLL Key |

MUSETEC AUDIO



- | | |
|----------------------|----------------------------------|
| (1) USB固件擦除按钮 | USB firmware erase key |
| (2) USB输入 | USB input port |
| (3) 光纤SPDIF输入 | Optical SPDIF input |
| (4) 数字同轴2输入 | Coaxial SPDIF input port 2 |
| (5) 数字同轴1输入 | Coaxial SPDIF input port 1 |
| (6) 数字平衡SPDIF输入 | AES/EBU input port |
| (7) RJ45-I2S输入(注2) | RJ45-I2S input port (Note 2) |
| (8) I2S-H平衡输入(注1) | I2S balanced input port (Note 1) |
| (9) 模拟音频右声道平衡输出口(注3) | Balanced output Right (Note 3) |
| (10) 模拟音频右声道单端输出口 | Un-balanced output Right |
| (11) 模拟音频左声道单端输出口 | Un-balanced output Left |
| (12) 模拟音频左声道平衡输出口 | Balanced output Left |
| (13) 电源开关 | Power Switch |
| (14) AC交流电源输入端口 | AC Power Input |
| (15) 保险丝盒 | Fuse holder |

*注1 Note 1

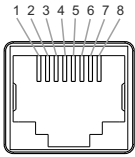
下面列出了该端口的19针引脚定义：
Here is the pin assignment of this port.

- | | |
|---------------------------|-----------------------|
| 1. I2S_DATA+ / DSD_DATA1+ | 2. NC |
| 3. I2S_DATA- / DSD_DATA1- | 4. I2S_BCK+ / DSDCLK+ |
| 5. NC | 6. I2S_BCK- / DSDCLK- |
| 7. I2S_LRCK+ / DSD_DATA2+ | 8. NC |
| 9. I2S_LRCK- / DSD_DATA2- | 10. NC |
| 11~16. NC | |
| 17. GND | 18. NC |
| 19. GND | |

MUSETEC AUDIO

注2 Note 2

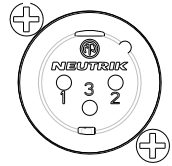
这里使用了一个RJ45端口作为第二组I2S信号的输入端口，所以这个端口并不能作为标准的网口输入来使用，下面列出了该端口的8针引脚定义：
Here We use a RJ45 port as a secondary I2S signal input, so users can not use this port as a normal ethernet input. Below is the pin assignment of this port.



- | | |
|-------------------------|--------|
| 1. I2S_DATA / DSD_DATA1 | 2. GND |
| 3. I2S_LRCK / DSD_DATA2 | 4. GND |
| 5. I2S_BCLK / DSD_CLK | 6. GND |
| 7. NC | 8. GND |

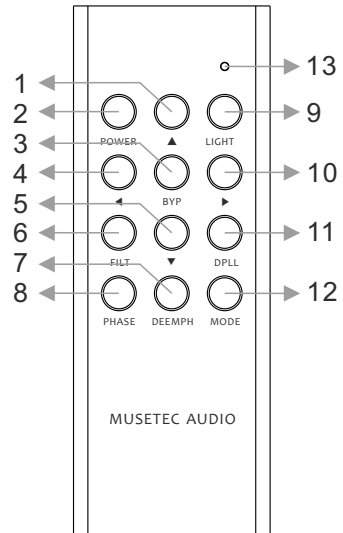
注3 Note 3

本机的音频平衡输出端子的定义为：1. 地 2. 正 3. 负
The balanced output pin-out is. 1. GND 2. + 3. -



遥控器说明 Remote Controller

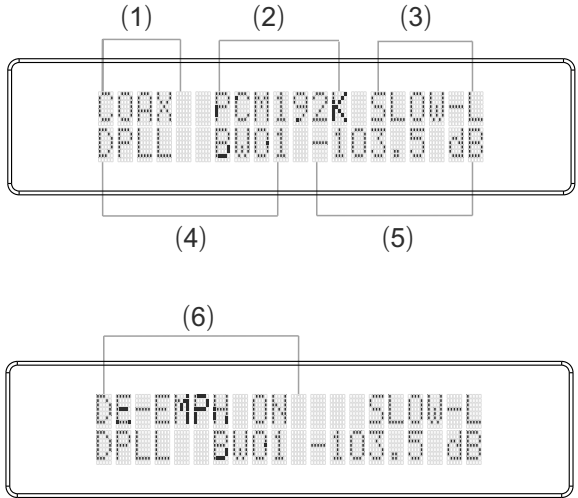
- | | |
|---------------|--------------------------|
| (1) 音量加 | Volume up |
| (2) 启动/待机 | Run/Standby |
| (3) 固定音量设置 | Bypass volume settings |
| (4) 前一个输入口 | Previous input port |
| (5) 音量减 | Volume down |
| (6) 滤波器模式 | Digital Filter select |
| (7) 去加重 | De-emphasis ON/OFF |
| (8) DSD声道交换 | Swap DSD channels |
| (9) 显示亮度调节 | Display luminance |
| (10) 后一个输入口 | Next input port |
| (11) 锁相环带宽 | DPLL bandwidth set |
| (12) DoP开启/关闭 | Dop enable/disable |
| (13) 发射指示灯 | IR transmit indicate LED |



MUSETEC AUDIO

显示屏信息 Display information

- (1) 输入端子名称
Input Channel
- (2) 采样率显示
Sample Rate
- (3) 滤波器模式
Filter Mode
- (4) 锁相环模式
DPLL Mode
- (5) 音量 Volume
- (6) 去加重
De-emphasis



根据不同的端子选择以及信号输入类型，显示屏将分别显示以下内容：

According to different input channel selected and different signal type, The displayer will display following contents.

MUSETEC AUDIO

显示屏信息 Display information detail

(1) 输入选择 Input Select

COAX1/COAX2/AES/OPT/I2S-E/I2S-H/USB

(2) 采样率显示 Sample Rate indicate

PCM 44K/48K/88K/96K/176K/192K/352K/384K/768K
DSD 64X/128X/256X/512X/1024X
DOP 64X/128X/256X

(3) 数字滤波器模式 Filter Mode

| | |
|--------|--|
| FAST-L | FIR Fast Roll-off, Linear Phase Filter |
| SLOW-L | FIR Slow Roll-off, Linear Phase Filter |
| IIR60K | IIR Filter 60K <input type="text"/> |
| IIR70K | IIR Filter 70K <input type="text"/> |

DSD模式可见
Only Available in DSD mode

(4) 锁相环模式 DPLL Mode

| | | |
|------|---------|----------------------------|
| BW01 | 最低锁相环带宽 | The lowest DPLL Bandwidth |
| BW02 | 第二档带宽 | Level 02 DPLL Bandwidth |
| ... | | |
| BW14 | 第十四档带宽 | Level 14 DPLL Bandwidth |
| BW15 | 最高锁相环带宽 | The highest DPLL Bandwidth |

PCM和DSD模式可以单独设置不同的锁相环数值。通常建议PCM模式下设置BW01-BW03, DSD模式下设置BW06~BW10

DPLL number can be set individually in DSD and PCM mode.
The recommended settings are BW01~BW03 in PCM mode,
and BW06~BW10 in DSD mode.

* 低的锁相环带宽可以得到好的信号质量, 但是过低的带宽会影响接收信号的容忍度, 可能会导致声音有卡顿甚至不能工作。
Better sound can be reached if user set DPLL to a lower bandwidth, but this will reduce the signal receiving tolerance.

(5) 屏幕亮度设置 Display light setting

AUTO OFF、100%、75%、50%、25%

* AUTO OFF 自动息屏, 无操作约20秒会自动关闭显示器
The VFD will automatically shut down after 20 seconds if there is no any key operation.

MUSETEC AUDIO

- (6) 输出音量调节 Volume control
0.0dB~ -127dB (0.5dB 间隔) (0.5dB Step)
VOL-FIXED 音量固定0dB Volume fixed to 0dB

* 音量调节是采用DAC内部的数字调节，当用户的放大器具有独立的音量调节功能时，请将DAC的音量调节设置为0dB，或者按下遥控器的BYP按键以固定音量输出为0dB。如果用户的放大器不具有音量调节功能，请在开启放大器电源之前，将解码器的音量调节到-20dB以下，以免开启功放时过强的声音影响到您的心情。

The volume control of this DAC is based on digital control. Once user have an external volume controller, such as a pre-amplifier, user should bypass this function by set the volume to 0dB or press the BYP key on the remote controller . If user don't have an external volume controller, user should turn the DAC volume down to -20dB to avoid the loud sound rush when turn on amplifier.

- (7) DEEMPH键。去加重设置 De-emphasis setting key
DE-EMPH ON 去加重打开 De-emphasis ON
DE-EMPH OFF 去加重关闭 De-emphasis OFF

* 如无必要，请将此项设置为OFF。
If not necessary, please set this item to OFF.

- (8) MODE键。DoP设置 Dop setting key
DOP ON 开启DoP接收功能 Enable DoP
DOP OFF 关闭DoP接收功能 Disable DoP

* 如无必要，请将此项设置为OFF。
If not necessary, please set this item to OFF.

- (9) PHASE键。交换DSD声道设置 Swap DSD channel
重复按下MODE按键将开启/关闭 DSD左右声道交换。
如果发现播放dsd时左右声道相反，可以按此按键解决。
此项设置不影响播放PCM格式音频的声道。
DSD channels can be swapped if you press the PHASE key repeatedly.
This setting has no effect on PCM playback.

MUSETEC AUDIO

技术规格 Technical Specifications

| 项目 Items | 规格 Specifications | 备注 Note |
|---------------------------|---|--|
| 型号 Model | MH-DA005 | 黑色/银色 Black/Silver |
| 解码方案 DAC Chips | SABRE32 Reference ES9038pro | 双芯片 2 chips |
| USB端口 USB Port | PCM 44.1K~384K 24/32bit DSD64~DSD512 Windows XP/vista/win7/win8 32/64bit Mac OSX 10.6+ | Amanero Windows 需要驱动 Need |
| S/PDIF 输入 S/PDIF Input | COAX / BNC / AES / OPT PCM44.1K~192K 16~24bit DOP 64x | |
| I2S 输入 I2S input | PCM 44.1K~768K 24/32bit DSD64~DSD1024 DOP 64~256 | |
| 音频输出 Output | RCA: 2Vrms XLR: 4Vrms FR (20Hz~20KHz) ± 0.2 dB DNR > 136dB SNR > 120dB THD < 0.0002% | |
| 额定功率 Rated Power | 25W <input type="checkbox"/> 100~120V <input type="checkbox"/> 200~240V | |
| 尺寸 Dimensions | 430mm*350mm*78mm | W*D*H 宽*深*高 |
| 净重 Weight | 9.0kg | |

MUSETEC AUDIO

©嘉兴沐声电子有限公司 2020

地址：中国浙江省嘉兴市南湖区广益路万好家居E-302

邮箱：bleerock@126.com

邮编：314000

网址：www.mu-sound.com

© MUSETEC Audio 2020

Addr: E-302, Wanhao Jiaju, GuangYi Rd., Nanhu District,
Jiaxing City, Zhejiang Province, China

Email: bleerock@126.com

Web: www.mu-sound.com