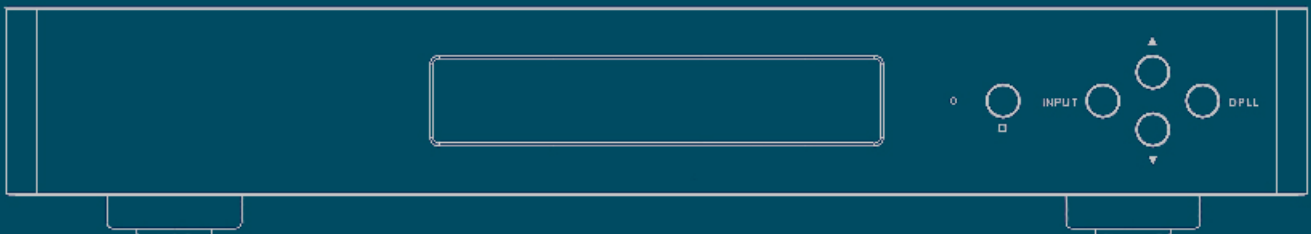


MUSETEC AUDIO

MH-DA005

User's Manual

Audiophile Reference DAC



www.mu-sound.com

Manual created by Musetec Audio & CLEAR Components

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

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.

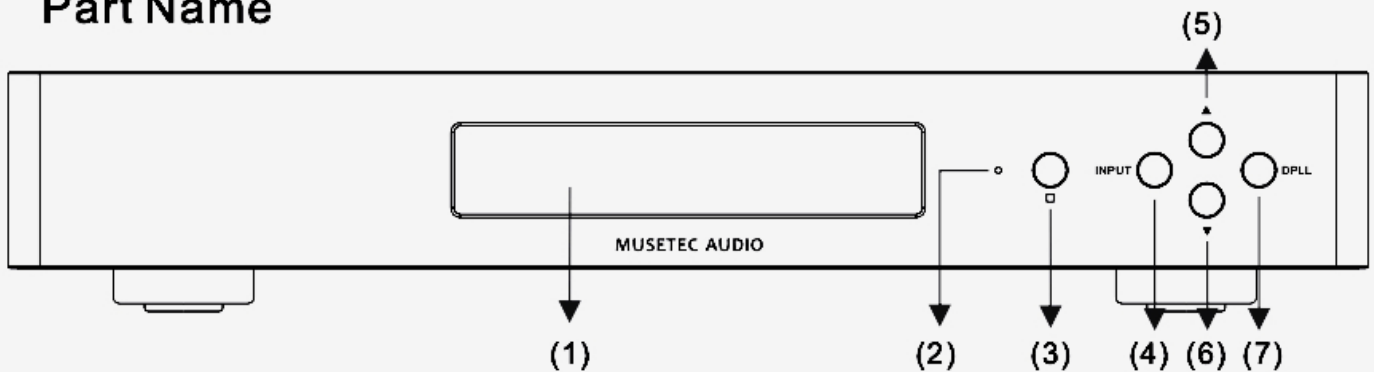
In order to avoid the risk of electric shock, do not disassemble the product.

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Out of Box Audit

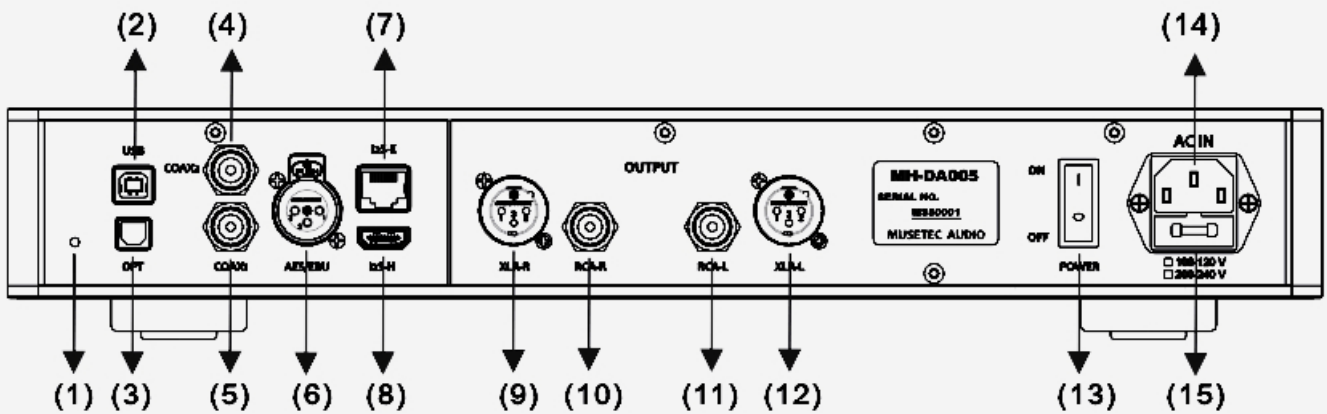
- MH-DA005 DAC
- Remote Controller
- AC Power Cable
- USB cable
- Warranty Card
- USB Flash Disk
- Screwdriver

Part Name



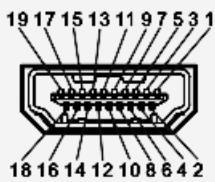
- (1) Displayer
- (2) Standby LED
- (3) Standby Key
- (4) Input Select Key
- (5) Volume Ramp Up Key
- (6) Volume Ramp Down Key
- (7) DPLL Key

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- (1) USB firmware erase key
- (2) USB input port
- (3) Optical SPDIF input
- (4) Coaxial SPDIF input port 2
- (5) Coaxial SPDIF input port 1
- (6) AES/EBU input port
- (7) RJ45-I2S input port
- (8) I2S balanced input port
- (9) Balanced output Right
- (10) Un-balanced output Right
- (11) Un-balanced output Left
- (12) Balanced output Left
- (13) Power Switch
- (14) AC Power Input
- (15) Fuse holder

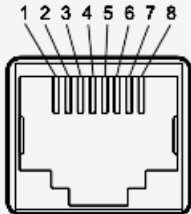
Here is the pin assignment of this port.



- | | |
|---------------------------|-----------------------|
| 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 | |

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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.



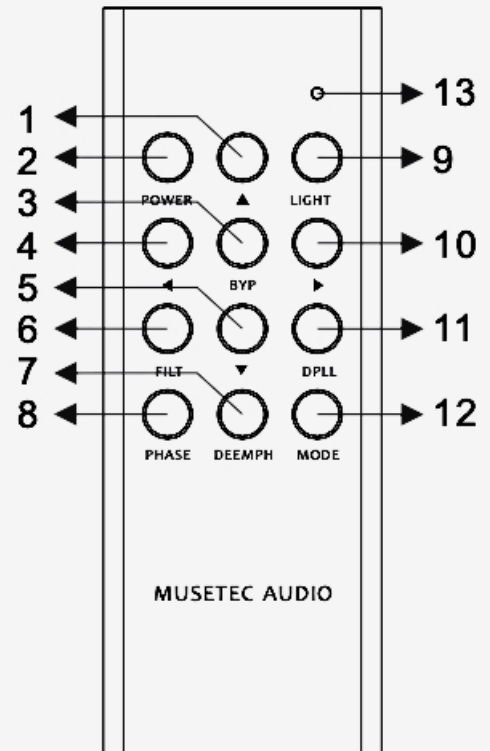
- | | |
|-------------------------|--------|
| 1. I2S_DATA / DSD_DATA1 | 2. GND |
| 3. I2S_LRCK / DSD_DATA2 | 4. GND |
| 5. I2S_BCLK / DSD_CLK | 6. GND |
| 7. NC | 8. GND |

The balanced output pin-out is. 1. GND 2. + 3. -



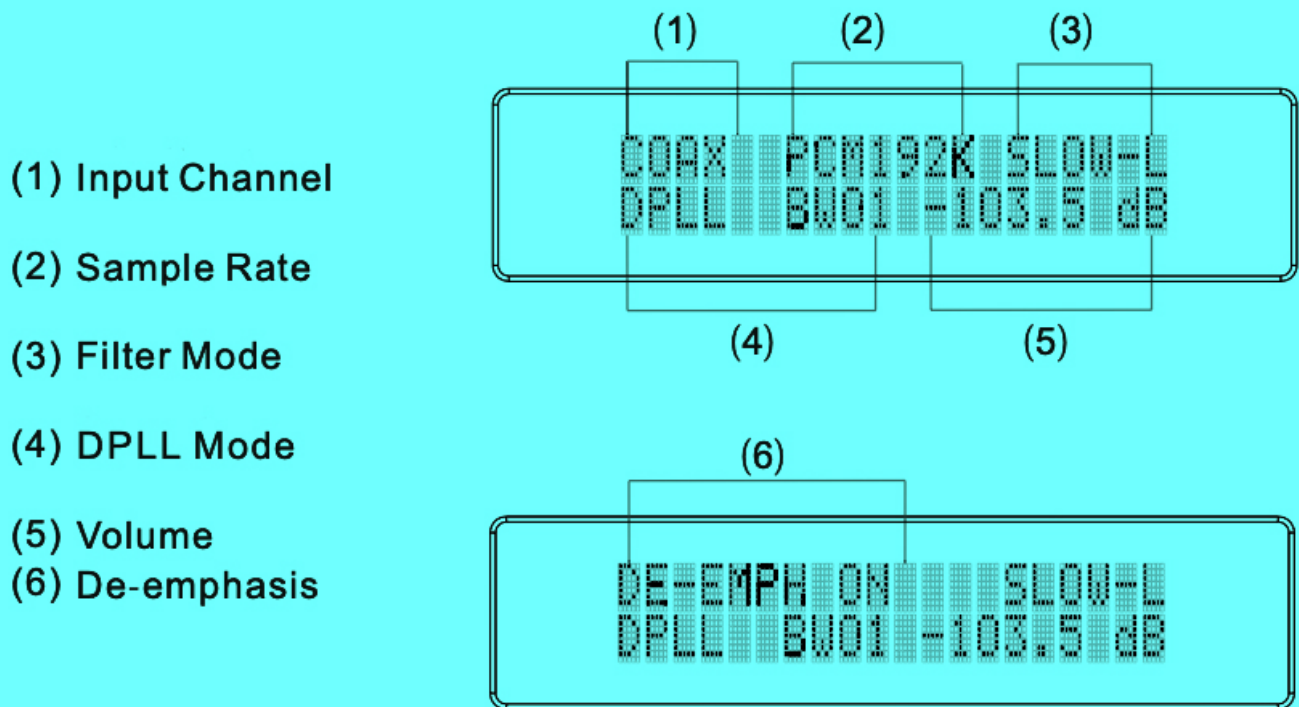
Remote Controller

- (1) Volume up
- (2) Run/Standby
- (3) Bypass volume settings
- (4) Previous input port
- (5) Volume down
- (6) Digital Filter select
- (7) De-emphasis ON/OFF
- (8) Swap DSD channels
- (9) Display luminance
- (10) Next input port
- (11) DPLL bandwidth set
- (12) Dop enable/disable
- (13) IR transmit indicate LED



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Display information



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

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Display information

(1) Input Select

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

(2) Sample Rate indicate

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

(3) Filter Mode

FAST-L FIR Fast Roll-off, Linear Phase Filter
SLOW-L FIR Slow Roll-off, Linear Phase Filter
IIR60K IIR Filter 60K Only Available in DSD mode
IIR70K IIR Filter 70K

(4) DPLL Mode

BW01 The lowest DPLL Bandwidth
BW02 Level 02 DPLL Bandwidth
...
BW14 Level 14 DPLL Bandwidth
BW15 The highest DPLL Bandwidth

PCM BW01~BW03
DSD 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.

Better sound can be reached if user set DPLL to a lower
bandwidth, but this will reduce the signal receiving
tolerance.

(5) Display light setting

AUTO OFF、100%、75%、50%、25%

* AUTO OFF

The VFD will automatically shut down after 20 seconds if there
is no any key operation.

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(6) Volume control

0.0dB~ -127dB (0.5dB Step)

VOL-FIXED Volume fixed to 0dB

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) De-emphasis setting key

DE-EMPH ON De-emphasis ON

DE-EMPH OFF De-emphasis OFF

If not necessary, please set this item to OFF.

(8) Dop setting key

DOP ON Enable DoP

DOP OFF Disable DoP

If not necessary, please set this item to OFF.

(9) PHASE

Swap DSD channel

DSD channels can be swapped if you press the PHASE key repeatedly. This setting has no effect on PCM playback.

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Technical Specifications

Items	Specifications	Note
Model	MH-DA005	Black/Silver
DAC Chips	SABRE32 Reference ES9038pro	2 chips
USB Port	PCM 44.1K~384K 24/32bit DSD64~DSD512 Windows XP/vista/win7/win8 32/64bit Mac OSX 10.6+	Amanero Windows
S/PDIF Input	COAX / BNC / AES / OPT PCM44.1K~192K 16~24bit DOP 64x	
I2S input	PCM 44.1K~768K 24/32bit DSD64~DSD1024 DOP 64~256	
Output	RCA: 2Vrms XLR: 4Vrms FR (20Hz~20KHz) ± 0.2 dB DNR > 136dB SNR > 120dB THD < 0.0002%	
Rated Power	25W <input type="checkbox"/> 100~120V <input type="checkbox"/> 200~240V	
Dimensions	430mm*350mm*78mm	W*D*H
Weight	9.0kg	

