

MUSETEC AUDIO

MH-DA006Lite

User's Manual



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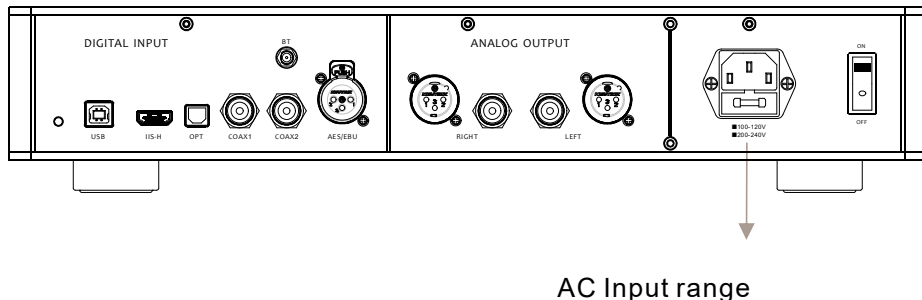
Dear Customer,

Thank you very much for choosing our products. Before use, please be sure to read this document carefully, that will help you quickly and accurately obtain the use method.

Notice!

Please check the voltage indicator sign to ensure that the voltage range marked on the device conforms to the voltage specifications of your region.

Incorrect voltage will damage the device.



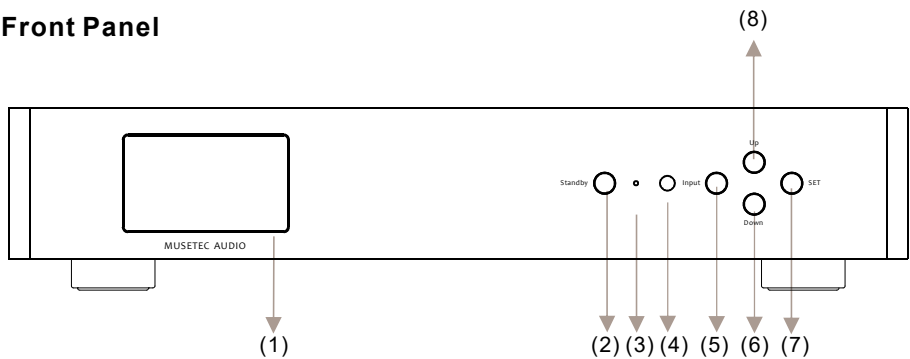
In order to avoid the risk of electric shock, please do not disassemble the device.

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Packing list

MH-DA006	X 1
USB disk	X 1
Remote controller	X 1
Power cable	X 1
Warranty card	X 1
Screwdriver	X 1

Front Panel



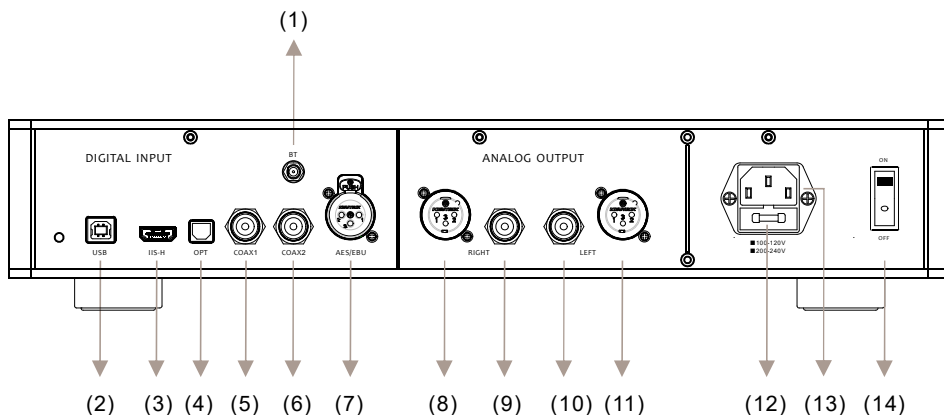
- (1) Displayer
- (2) Standby Key
- (3) Red Status LED

LED Status	Working mode
On	Standby mode
Off	Normal Operation with display on
Breathing	Display automatically turned off

- (4) Infrared remote signal receiver
- (5) Input select Key
- (6) Down Key
- (7) SET Key
- (8) Up key

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Rear Panel



- (1) Bluetooth antenna input port
- (2) USB input
- (3) IIS-H LVDS IIS signal input
- (4) Optical S/PDIF input
- (5) COAX1 S/PDIF input
- (6) COAX2 S/PDIF input
- (7) AES/EBU input
- (8) XLR balanced output of right channel
- (9) RCA output of right channel
- (10) RCA output of left channel
- (11) XLR balanced output of left channel
- (12) Fuse holder (Fuse type 250V 3.15A 5*20mm)
- (13) AC main input
- (14) Power switch

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The balanced output pin assignment.

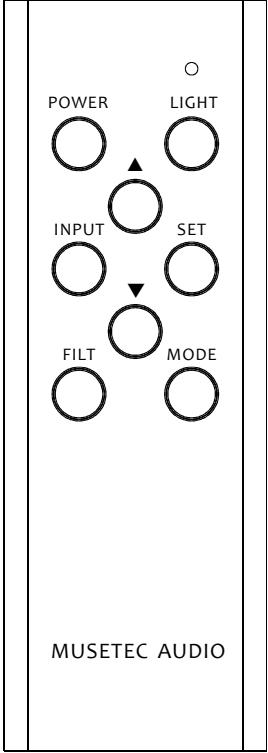


1. GND
2. Positive +
3. Negative -

Remote Controller

Key Name	Function
POWER	Power on/off
LIGHT	Display light
INPUT	Input select
SET	Settings menu
▲	Volume up
▼	Volume down
FILT	Filter mode
MODE	SYNC/ASYNC※

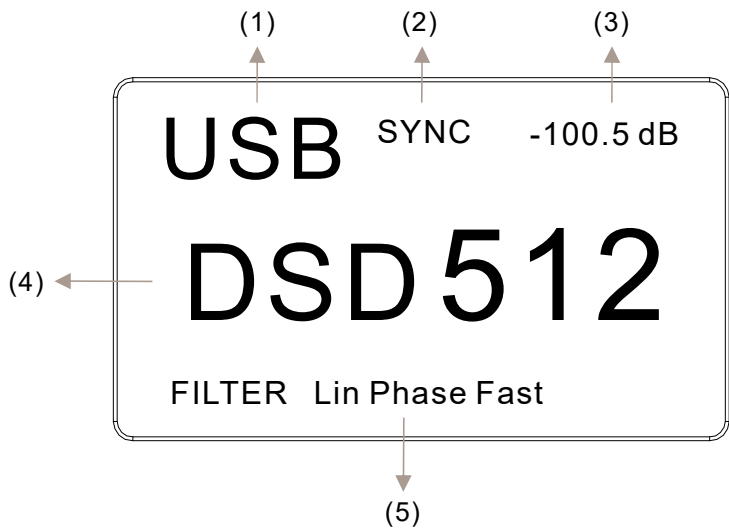
※ SYNC/ASYNC
SYNC = Synchronous
ASYNC = Asynchronous



DAC mode can be set to SYNC or ASYNC when IIS-H is selected.
DAC mode is fixed to SYNC mode when USB input is selected, because the USB part and the DAC have the same clock source.

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The main window.



(1) Input channel name.

Name	Description
COAX1	Digital coaxial s/pdif input 1
COAX2	Digital coaxial s/pdif input 2
AES/EBU	Digital AES/EBU input
OPTICAL	Optical s/pdif input
Bluetooth	Bluetooth audio input
IIS-H	IIS LVDS input
USB	USB input

(2) Clock mode select. IIS-H can be set to SYNC or ASYNC mode.

(3) Volume number.

The digital volume step is 0.5dB.

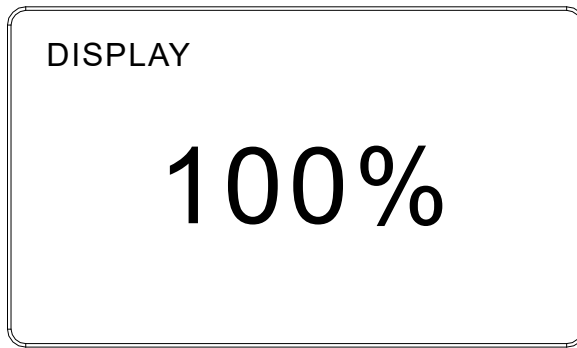
Volume range is 0dB to -127.5dB.

(4) Displays the current received signal format.

(5) Filter mode.

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Display brightness setting.

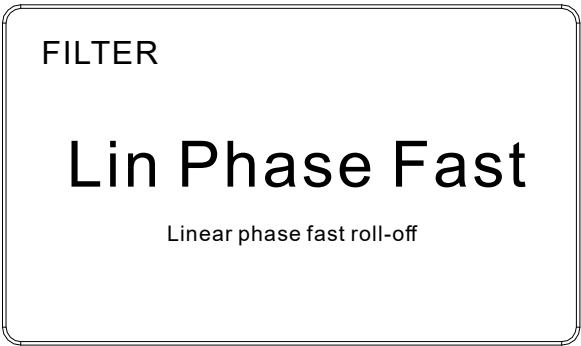


It has 10 steps. The brightness can be changed by press the **LIGHT** key on the remote controller.

20% / 30% / 40% / 50% / 50% / 60% / 70% / 80% / 90% / 100% / Auto off

In **AUTO OFF** mode, the display will be automatically turned off if there is no key operation within 30 seconds.

Filter setting.



DAC filter mode can be changed by press the FILT key of the remote controller.

There are 6 filter modes.

Filter Mode	Description
Lin Phase Fast	Linear Phase Fast Roll-off
Lin Phase Slow	Linear Phase Slow Roll-off
Min Phase Fast	Minimum Phase Fast Roll-off
Min Phase Slow	Minimum Phase Slow Roll-off
Min Phase	Minimum Phase
Lin Phase APO	Linear Phase Apodizing

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Settings window.

 Settings	Return ↵
1 PCM Filter	► Lin Phase Fast
2 IIS-H Input	AAAAB
3 IIS-H Data	IIS 32bit
4 IIS-H Clock	SYNC
5 Display Light	100%
6 Display Style	4

Press the **SET** key on the front panel or remote controller to enter the **Settings** window.

How to select the item?

Press the **UP/DOWN** or **▲/▼** keys to select items.

How to change the value of each item?

1. Press the **IN** key on the front panel.
2. Press the **INPUT** key on the remote controller.

How to exit the **Settings** Window?

1. Press the **IN** or **INPUT** key when the **Return** item is selected.
2. Press the **SET** key.

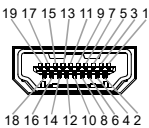
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Settings description.

No.	Item	Description
1	PCM Filter	Total of 6 digital filter modes can be selected.
2	IIS-H Input	IIS-H port pin definitions can be set to suit different IIS connections.
3	IIS-H Data	IIS-H data can be set to I2S or Left Justified mode. The data width can be set to 16/24/32 bits.
4	IIS-H Clock	SYNC: MCLK clock from IIS will be used. ASYNC: Local MCLK clock will be used.
5	Display Light	The display's backlight can be set to be always on, with a brightness value of 20% to 100%, or set to automatically off.
6	Display Style	4 different display color styles can be selected.

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IIS-H pin definition.



IIS-H input ▶AAAAB

Code<AAAAB> A A A A B
 M1 M2 M3 M4 M5

M1	A	PIN1 PCM-DAT+ / DSD-DAT+ PIN3 PCM-DAT- / DSD-DAT-	M2	A	PIN4 PCM-BCLK+ / DSD-BCLK+ PIN6 PCM-BCLK- / DSD-BCLK-
	B	PIN1 PCM-DAT- / DSD-DAT- PIN3 PCM-DAT+ / DSD-DAT+		B	PIN4 PCM-BCLK- / DSD-BCLK- PIN6 PCM-BCLK+ / DSD-BCLK+
	C	PIN1 PCM-DAT+ / DSD-DAT+ PIN3 PCM-DAT- / DSD-DAT-			
	D	PIN1 PCM-DAT- / DSD-DAT- PIN3 PCM-DAT+ / DSD-DAT+			
M3	A	PIN7 PCM-LRCK+ / DSD-DAT+ PIN9 PCM-LRCK- / DSD-DAT-	M4	A	PIN10 MCLK+ PIN12 MCLK-
	B	PIN7 PCM-LRCK- / DSD-DAT- PIN9 PCM-LRCK+ / DSD-DAT+		B	PIN10 MCLK- PIN12 MCLK+
	C	PIN7 PCM-LRCK+ / DSD-DAT+ PIN9 PCM-LRCK- / DSD-DAT-			
	D	PIN7 PCM-LRCK- / DSD-DAT- PIN9 PCM-LRCK+ / DSD-DAT+			
M5	A	PIN13 DSDOE "0"PCM "1" DSD			
	B	PIN14 DSDOE "0"PCM "1" DSD			
	C	PIN15 DSDOE "0"PCM "1" DSD			

PIN 2/5/8/11/17/19 GND

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Specifications

Items	Specifications	Note
Model	MH-DA006Lite	Black/Silver
DAC Chips	Es9039pro*2	
USB Port	PCM 44.1K~768K 24/32bit DSD64~DSD1024 Windows 10/11 32/64bit Mac OSX 10.6+ Linux with UAC2	
S/PDIF Input	COAX1 / COAX2 / AES / OPT PCM44.1K~192K 16~24bit DOP 64x	
I2S input	PCM 44.1K~768K 24/32bit DSD64~DSD1024 DOP 64~256	
Analog Output	RCA: 2.8Vrms XLR: 5.6Vrms FR (20Hz~20KHz) $\pm 0.2\text{dB}$ DNR > 127dB THD+N > 117dB (A-weighted)	
Power Consumption	<30W 100~120V or 200~240V	
Dimensions	430mm*320mm*90mm	W*D*H
Net Weight	8.3 kg	

