

USER MANUAL

DSD DIGITAL TURNTABLE

AM-MD502

Dolby 5.1 surround

1. Description:

Welcome to the world of enhanced audio experiences with your new DSD Digital Turntable! This state-of-the-art 5.1 channel digital audio system is designed to revolutionize your listening pleasure. Please take a moment to familiarize yourself with its features and functions by reading through this manual.

2. Features:

- **Versatile Input Options:** Enjoy flexible connectivity with three HDMI inputs, Coaxial and Optical inputs, PC-USB, AUX, Bluetooth 5.0, USB 2.0, and SD card inputs.
- **Comprehensive Output:** Seamlessly integrate with various audio setups using HDMI (ARC) output, Optical and Coaxial outputs, and 5.1-channel analog audio output simultaneously.
- **High-Resolution HDMI:** Experience stunning visual clarity with support for up to 4Kx2K@60hz resolution, including compatibility with 3D and HDR content.
- **Extensive USB Player Support:** Play your favorite audio formats including ISO, DSD, DTS, WAV, FLAC, AAC, MP3, and more for versatile playback options.
- **Intuitive Song Selection:** Easily navigate between folder-based and digital song playback for quick access to your music library.
- **Advanced Audio Decoding:** Enjoy superior sound reproduction with support for DSD256/1bit and PCM 768KHz/32bit capabilities.
- **Enhanced Bluetooth Connectivity:** Stream high-fidelity wireless audio with Bluetooth support up to version 5.1 and compatibility with various codecs including LDAC, aptX-HD, and AAC.
- **Flexible Output Modes:** Choose from multiple output modes including 5.1ch, 4.1ch, 3.1ch, 2.1ch, and 2.0ch to suit your audio setup preferences.
- **Automatic Source Detection:** Automatically detects input sources and optimizes audio output for DTS/AC3 and PCM formats.
- **Memory Function:** Retain previous settings such as the last played song, input mode, volume level, and function in case of power outage or shutdown.

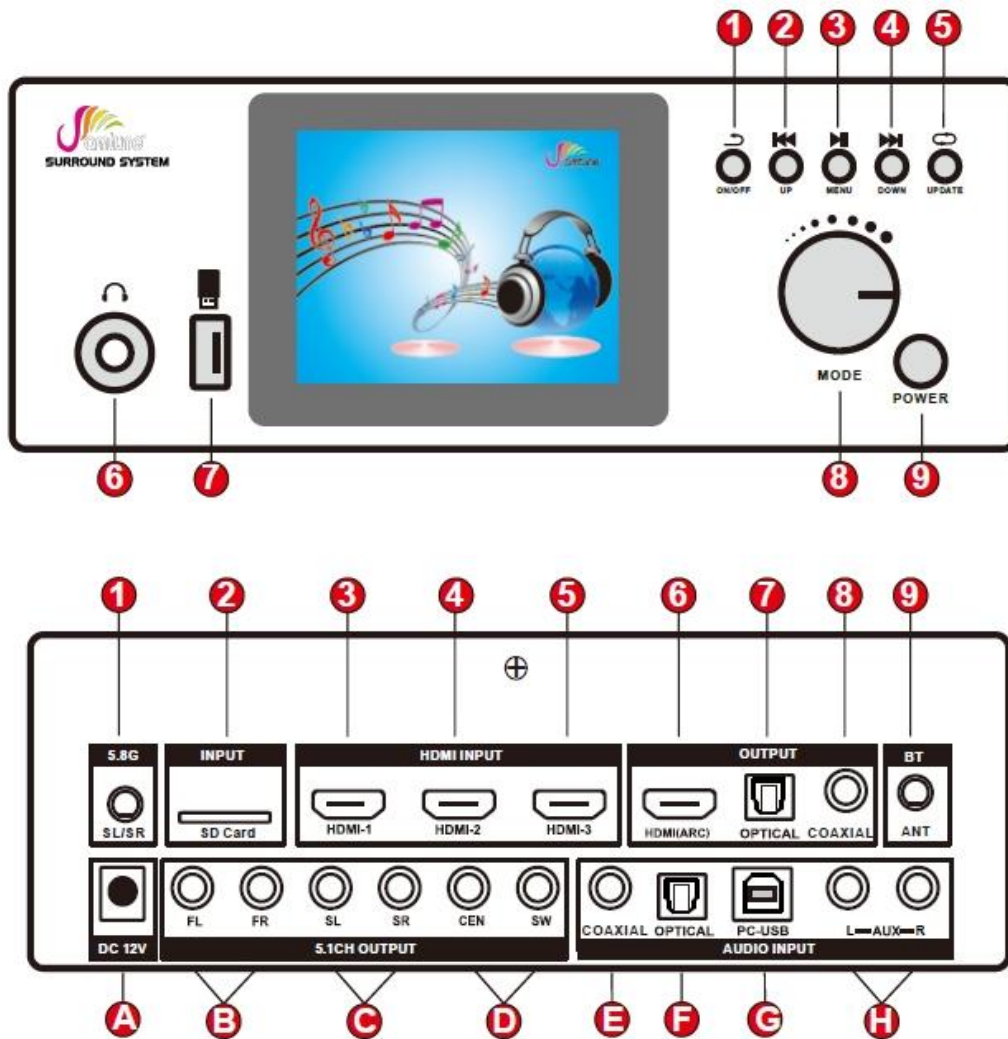
- **Customizable Volume Control:** Fine-tune your sound with global and mono volume adjustment, offering 50 levels of precision for each channel.
- **User-Friendly Display:** Navigate settings and information effortlessly with the 3.2" color LCD display.
- **Wireless Surround Transmission:** Immerse yourself in wireless surround sound experiences with optional support for 5.8G wireless transmission (available in 5.8G version).
- **Convenient Power Input:** Power your turntable with ease using DC 12V input, ensuring compatibility with various power sources.

3. Specifications

Feature	Details
HDMI version	HDMI 2.0b & HDCP 2.3
HDMI resolution	4Kx2K/1080p/1080i/720p/576p/576i/480p/480i @24/50/60fs
HDMI MAX bandwidth	6Gbps
HDMI input & output TMDS signal	0.5~1.5Volts p-p (TTL)
HDMI input & output DDC signal	5Volts p-p (TTL)
HDMI input & output transfer distance	≤20m AWG26 HDMI standard cable
DSP sample frequency/bit rate	DSD256/1BIT and PCM 384KHz/32BIT
Digital input level	0.1~1Volts p-p
Analog output level	≥2V RMS (1kHz@0dB)
SNR @ AM502	≥112dB
SNR @ AM-MD502-PRO	≥120dB
SNR @ AM-MD502-PRO+	≥129dB
Frequency response	20Hz~20KHz
Power adapter format Input	AC100V~240V 50HZ/60Hz, DC12V/1A
Bluetooth Version	5.0 (AM-MD502), 5.1 (AM-MD502-PRO(+))

Feature	Details
Bluetooth Receive Distance	15m
Operating Temperature range	-10 to +50°C
Storage Temperature range	-20 to +60°C
Operating Humidity range	10 to 90%RH (No Condensation)
Storage Humidity range	5 to 95%RH (No Condensation)
Product/Package Dimension (L x W x H)	218x110x78 (mm)/ 245x192x209 (mm)
Product/Package Weight	900g/1350g

4. Panel



Amtune Audio decoder series

Front Panel	Short Press	Long Press	Definition
1	Return	Standby	Return to previous screen
2	Previous song	Page up	Navigate to previous page
3	Next song	Page down	Navigate to next page
4	Play/Pause	MENU	Toggle play/pause
5	Repeat mode	Firmware update	Toggle repeat mode
6	-	-	3.5mm earphone output
7	-	-	USB input (U-DISK)
8	Input mode selection	Revolve=Adjust volume	-
9	Power down hardware	-	-

Rear Panel	Definition	Rear Panel	Definition
1	5.8G antenna port (only 5.8G Version)	A	DC 12V power input port
2	SD Card input port	B	FL/FR output
3	HDMI-1 input port	C	SL/SR output
4	HDMI-2 input port	D	SEN/SW output
5	HDMI-3 input port	E	Coaxial input
6	HDMI output port with ARC	F	Optical input
7	Optical output port	G	PC-USB sound-card input
8	Coaxial output port	H	AUX input
9	Bluetooth antenna port		

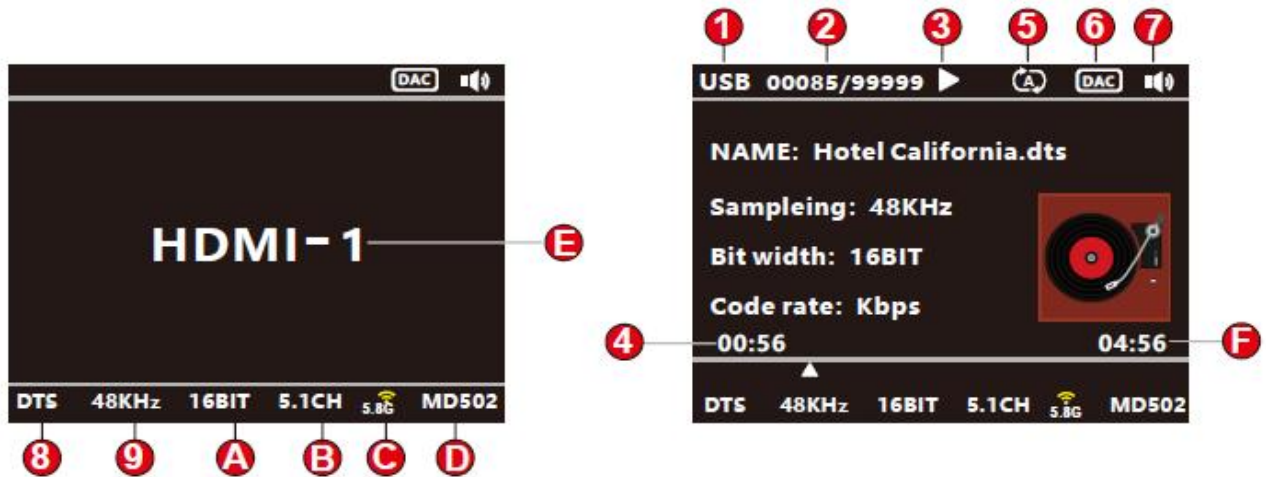
Remote:



AAA 1.5V

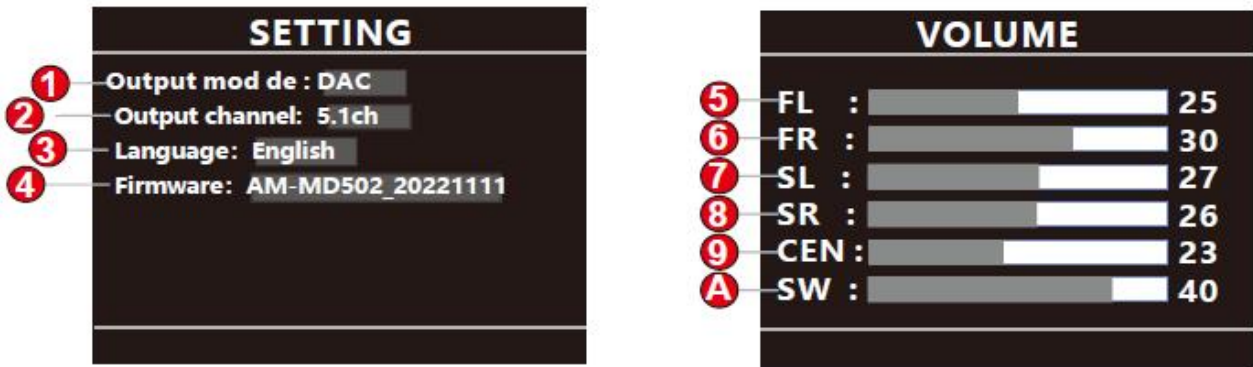
Key	Function	Key	Function
	Standby		Mute
	Test or Update		Menu
	Return		Backlight
	Digital 0~9		Order playing
	Random playing		Single circulation
	Folder or all circulation		Previous selection
	Volume decrease		Next selection
	Volume increase		Play/Pause
	Mic Volume		ECHO volume
	Tone		ECHO ON/OFF
	HDMI-1 input		HDMI-2 input
	HDMI-3 input		ARC input
	Coaxial input		Optical input
	PC-USB input		AUX input
	Bluetooth input		USB(U-disk) input
	SD or TF card input		
	20./2.1/3.1/4.1/5.1ch output mode		

Interface A



- 1: USB MODE
- 2: Current playing/all tracks
- 3: ▶ PLAY, || PAUSE
- 4: Playing time
- 5: → Order play, ✕ Random play, ↺ Single cycle, ↻ Folder cycle, ↻ All cycle
- 6: **DAC** Select 2.0/2.1/3.1/4.1/5.1 ch output;
RAW Select DTS/AC3 raw output from Optical/Coaxial;
DOP Select DSD raw output from Optical/Coaxial;
PCM Select PCM output from Optical/Coaxial.
- 7: 🔊 Normal, 🔇 Mute
- 8: Format of input source
- 9: Sampling rate of input source
 - A: Bit Width of input source
 - B: Output channels mode : 2.0/2.1/3.1/4.1/5.1ch
 - C: Indicator of 5.8G wireless surround: Appear when 5.8G wireless connected, Disappear when 5.8G wireless disconnected.
 - D: Brand or Product model
 - E: Input mode:
 HDMI-1 -> HDMI-2 -> HDMI-3 -> ARC -> COAXIAL -> OPTICAL -> PC-USB
 -> AUX -> Bluetooth -> USB -> SD
 - F: Length of song

Interface B



1: Output mode :

DAC = Output from 2.0/2.1/3.1/4.1/5.1ch

SPDIF-RAW = Output DTS/AC3 raw from OPTICAL/COAXIAL SPDIF-RAW =
Output DSD raw from OPTICAL/COAXIAL SPDIF-RAW = Output PCM from
OPTICAL/COAXIAL

2: Output channels mode (DAC mode) :

2.0/2.1/3.1/4.1/5.1ch

2.1CH : FL+FR

2.2CH : FL+FR+SW

3.1CH : FL+FR+CEN+SW

4.1CH : FL+FR+SL+SR+SW

5.1CH : FL+FR+SL+SR+CEN+SW

3: Language : 中文=Chinese ; ENGLISH=English

4: Product model and Version date .

5: Volume of each output channel(DAC mode).

5. Package list

- AM-MD502 decoder..... 1 PC
- Remote..... 1 PC
- User manual 1 PC
- DC 12V/1A Adapter..... 1 PC
- PC-USB wire..... 1 PC
- User manual 1 PC

- Antenna of blue-tooth.....1 PC
- Antenna of 5.8G(optional).....1 PC
- Qualified certificate.....1 PC

6. Operation Guard

Certainly! Let's break down the instructions for operating the AM-MD502 decoder:

1. **Signal Wire Connection**:

- Before powering on the device, ensure that all signal wires are connected.
- The LCD display will turn on and show information after approximately 2 seconds.
- You can then proceed with your operations.

2. **Button Functions**:

- **POWER Button**: Press this button to turn off the machine power.
 - Note: The red key on the remote control only puts the device in standby mode; it does not completely turn off the power.
- **MODE/VOLUME Button**:
 - Press to select the input source.
 - Rotate clockwise to increase the volume.
 - Rotate counterclockwise to decrease the volume.

3. **HDMI Output and LCD Display**:

- HDMI output corresponds to HDMI inputs.
- The LCD display corresponds to the USB-disc player.
- The USB-disc player content cannot be displayed on the HDMI output.

4. **Digital Song Selection**:

- To play the 500th song, sequentially press the digits "5 0 0."

5. **Audio Output Instructions**:

- **COX/OPT Output**: All inputs are output from COX/OPT without decoding (RAW output).
- **5.1ch Output**: All inputs are decoded to 5.1-channel audio output.

6. **ARC (Audio Return Channel) Function**:

- Set your HDTV or projector as an external speaker.
- Select "RAW" as the audio output format.
- Ensure that the HDMI cable has 19+1 pins.
- Set the AM-MD502 decoder to ARC mode.

7. **Bluetooth Skills**:

- Set the AM-MD502 to Bluetooth mode.
- Search for and connect to the BT device named "BT-5.1CH" (or the specific device model) via your mobile phone.
 - Note that Bluetooth can only transport PCM signals, resulting in virtual 5.1-channel output.

8. **Individual Volume Operation**:

- **Remote Control**:
 - Press the volume button on the remote to enter the VOLUME menu.
 - Use the same button to select the desired channel.
 - The menu will exit automatically after three seconds.
- **Button (Knob)**:

- Rotate the knob to enter the **VOLUME** menu.
- Press the knob to select the channel.
- Continue rotating the knob to adjust the volume.
- The menu will exit automatically after three seconds.

9. **Firmware Update:**

- Long-press the **UPDATE** button or the **TEST** key on the remote for at least 3 seconds.
- Re-power the device after the firmware update.

Feel free to reach out if you have any further questions or need additional assistance!