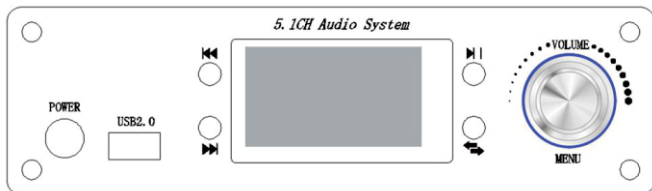# AтNеDсVн ®

5.1CH Digital Audio System
USER MANUAL

Model No.: RH-699X

Download The Driver Of PC:
www.atnedcvh-online.com

Getting Support:
atnedcvh@foxmail.com

Dear customer

Thank you very much for purchasing our products. In order to ensure safety and achieve the best effect of the product, please read this manual carefully before connecting, operating and debugging the product. This product is guaranteed free of charge for one year from the date of purchase, please do not disassemble it without permission, otherwise the warranty will be invalid.

RH-699X series audio decoding system can decode DTS Dolby AC-3, LPCM and other digital audio format source codes; Support U disk playback DTS, AC3, WAV, FLAC, APE, MP3 and other lossless high-quality audio playback, support HDMI input source code audio decoding, support ARC audio return, support optical fiber and coaxial input decoding, support BT 5.0 wireless transmission, support AUX stereo input, realize one machine to complete all audio equipment connection and decoding output. Can be output through digital fiber coaxial source code and 5.1 decoding output, fully compatible with all power amplifiers or active audio equipment on the market. The LCD display on the front panel can display the working status and debugging interface of the product, and the infrared remote control can be used for interfacing with many entertainment devices such as DVD player, Blu-ray machine, network player, set-top box, PS2, PS3, Xbox360, PC, home cinema, automobile, etc.
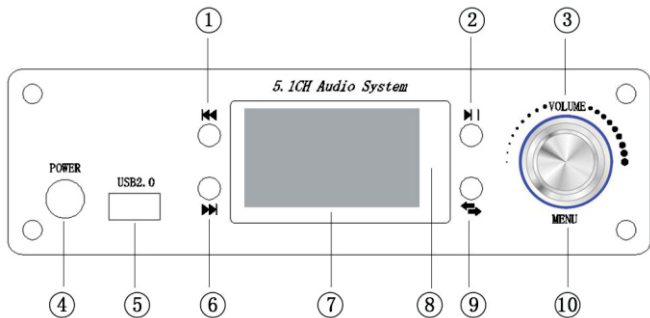
Sincere service is our concept and customer satisfaction is our aim. The company will offer the best products to customers at the most favorable price and wholeheartedly provide high-quality services to customers.
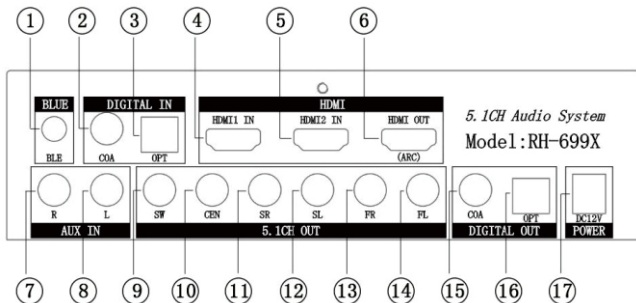
FEATURES:

1: Supports one digital coaxial input, one digital optical fiber input, two HDMI inputs, one ARC audio return input, one AUX analog stereo input, one BT 5.0 input and one USB2.0 interface input. Different signal sources can be switched freely.

2: Supports a set of 5.1 channel analog audio output, supports 6 output modes of 2.0, 2.1, 4.0, 4.1, 5.0 and 5.1 channels when decoding and playing any signal input, and can be flexibly configured according to the number of speakers.

3: Support one path of optical fiber source code output and one path of coaxial source code output, which can be directly connected with power amplifier and active sound box.

4: The latest BT 5.0 transmission mode can automatically detect and be compatible with BT devices. PRO version supports BLE mobile phone APP control.

5: 24-bit/192khz audio DSP and fourth generation 24-bit/192khz DAC six-channel chip with power-on reset function.

6: Supports decoding of Dolby digital AC3, DTS, LPCM, HDCD, PCM, Dolby Digital, Dolby Pro Logic II and other digital audio formats.

7: USB disk multimedia playback is supported, which can play multimedia contents such as 5.1 channel and lossless music, with a maximum capacity of 128G/FAT32 format.

8: Support folder selection for file playback, while the remote controller can also quickly select 1-10 songs for playback.

9: Supports fine tuning of each channel output by 15dB with 5.1 channel noise test function.

10: Support the switching of four playing modes: full circle playing, single circle playing, sequential playing and random playing.

11: High-quality sound quality, low noise, computer mute and reset function, better protection of rear stage and equipment

12: Switch input source with one key, which is convenient and fast to operate. It supports simple operation of panel keys and adjustment of volume with coding knob.

13: LCD display screen, tinted acrylic panel eye protection mode protection, external multifunctional infrared remote control, everything.

14: The display screen can display the song name, playing progress, number of files, playing mode, file format, volume and output format.

15: All-aluminum brushed 6mm panel, high-end atmosphere is not inferior, all-black metal chassis, stable and decent, not low-key.

16: Power-off memory function, automatically switch to the signal channel used last time after restarting, and USB play memory files before power-off.

17: DC 12V/1A external power adapter is used for power supply, and DC(7-20V) can be used for power supply for wide voltage.

18: Three-dimensional dimensions of the product: 184mm (width) *97mm (depth) *53mm (height).

INTERFACE DIAGRAM:

①: U disk plays previous key.　　②: U disk play/pause key.

③: Volume adjustment encoder.　　④: Power on key.

⑤: USB socket.　　⑥: USB disk plays next key.

⑦: LCD display.　　⑧: Infrared remote control receiving head

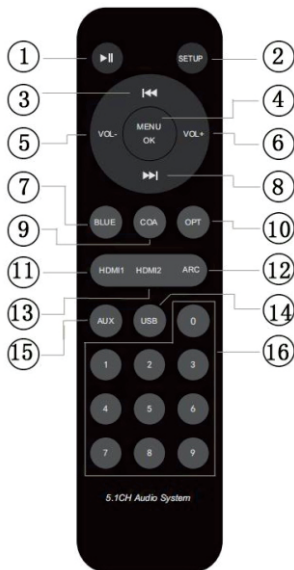⑨: Input switch key/return key.　　⑩: U disk menu key (short press)/setting key (long press)

①: BT 5.0 and BLE control receiving antenna. ②: Coaxial digital signal input port.

③: Optical digital signal input port. ④: HDMI1 digital signal input port.

⑤: HDMI2 digital Signal Input Port. ⑥: HDMI digital signal output /ARC audio return port.

⑦:AUX analog right channel input. ⑧: AUX analog left channel input

⑨:5.1 channel SW output port. ⑩: 5.1 channel CEN output port

⑾:5.1 channel SR output port. ⑿: 5.1 channel SL output port.

⒀:5.1 channel FR output port. ⒁: 5.1 channel FL output port.

⒂:Coaxial digital signal output port. ⒃: Optical digital signal output port

⒄:External DC 12V power adapter input port

SPECIFICATIONS:

Support for Digital Audio Decoding Format	Dolby Digital (AC3)/DTS/PCM
USB playback music format	MP3 / APE / FLAC / WAV / DTS / AC3
HDMI Input Resolution	3840 * 2160
DSP sampling frequency	32 ~ 192 kHz
DSP bit rate	16 ~ 24 bit
Digital input level	0.1～1V p-p
5.1 analog output (1kHz@0dB)	≥1.5V RMS
SNR @ 0dB(CCIR/ARM)	≥90dB
Distortion	≤0.03%
Frequency response	20Hz~20KHz
Max working current	700mA
Power adapter format Input	AC100V~240V 50HZ/60Hz, DC12V/1A
Operating Temperature range	-10 to +60℃
Storage Temperature range	-20 to +60℃
Operating Humidity range	10 to 90%RH (No Condensation)
Storage Humidity range	5 to 95%RH (No Condensation)
Case Dimension (L x W x H)	184mm*97mm*53mm
Net weight	800g
Gross weight	950g

INFRARED REMOTE CONTROLLER:

①: U disk play/pause key

②: Set menu to enter exit key

③: U disk plays previous key

④: U disk file menu/OK key

⑤: Volume reduction key

⑥: Volume up key

⑦: BT input switch key

⑧: U disk plays next key

⑨: Coaxial digital signal input key

⑩: Optical fiber digital signal input key

⑪: HDMI1 digital signal input

⑫: ARC Digital Signal Return Key

⑬: HDMI2 digital signal input

⑭: USB play toggle key

⑮: AUX input toggle key

⑯: 0-9 quick select key

RANDOM ACCESSORIES:

1. One audio decoder host
2. One infrared remote controller
3. One DC12V/1A power adapter,
4. One BT receiving antenna
5. One digital optical fiber line,
6. One digital coaxial line
7. One user manual
8. One certificate of approval

OPERATIONG AND CONNECTION:

1. If the HDMI output of the player is connected, the output of the player and the HDMI1 or HDMI2 input of the decoder are connected through an HDMI line. The HDMI output of the decoder is then connected to HDMI display, television, projection and other devices to display images. The decoder is switched to HDMI1 or HDMI2 input.

2. If the optical fiber or coaxial output of the player is connected, the optical fiber or coaxial input of the decoder is connected through an optical fiber audio line or a 75-ohm RCA coaxial audio line, and the decoder is switched to the optical fiber or coaxial input.

3. If a decoder is used to connect the TV, there are two ways to connect it: the first is to connect the TV with the decoder via optical fiber or coaxial, please set the TV audio output as SPDIF output and switch the decoder to optical fiber or coaxial input; The second is to connect the TV's HDMI ARC interface with the decoder's ARC interface. Please set the TV's audio output as HDMI ARC output and switch the decoder to HDMI ARC input.

4. If the red and white AUX stereo is connected, connect the AUX red and white interface input of the decoder through the lotus head audio line.

5. If the BT function is used and the decoder is turned on and the BT device is turned on, the BT can be searched, the BT name pair is connected, the connection is successful, and the decoder is switched to BLUE BT input.

6. If you use the USB flash drive to play, first format the USB flash drive or check whether the USB flash drive is in FAT32 format. If it is not formatted in FAT32 format before copying audio files to the USB flash drive, you can create a first-level folder for classification copying. Insert it into the USB port of the decoder to play, and the decoder selects the USB input.

7. The decoder is correspondingly connected with the input port of the power amplifier 5.1 through six lotus RCA lines. If the power amplifier is provided with optical fiber or coaxial input, the decoder can also be connected with the optical fiber or coaxial output of the decoder and the power amplifier, and then the corresponding input of the power amplifier is selected.

8. Finally, connect the 12V/1A power adapter to the decoder power input and plug the adapter into the power socket.

Note: PRO version supports BLE mobile phone APP control function.

WARRANTY SERVICE

Thank you for choosing our audio-visual products. In order to ensure that you can fully enjoy the perfect after-sales service provided by our company, please read this manual carefully after purchase.

Warranty conditions:

1) The products with performance failure will be used normally within one year from the date of purchase of the machine.

2) Product appearance damage, only warranty performance failure, appearance operation injury not warranty

3) Non-man-made damage

Based on the above conditions,our company will guarantee the products that meet the warranty conditions free of charge within one year. For the products that do not meet the warranty conditions, we will charge for the parts.

FAQ:

No.	Problem Description	Solutions
1	Non-Power-Connected	1. Check whether the power plug is fully inserted 2. Please check whether the POWER key of the power switch is on
2	No Sound	1. Whether the input signal source is turned on and connected well 2. Confirm whether the signal source channel selection corresponds to the connector interface 3. Confirm whether the format of the input audio signal is a format supported by the product 4. Confirm that the power amplifier has been turned on and correctly connected with the machine 5. Confirm the volume setting of decoder and power amplifier and whether it has been muted 6. Whether the sound of signal source equipment is set as the corresponding output signal
3	Noise/Abnormal sound	1. Confirm whether the format of the input audio signal is a format supported by the product 2. Check the decoder analog output and power amplifier output each channel wiring is correct 3. Confirm whether the connection line is in good condition and reliable connection
4	No 5.1 surround effect	1. Check whether the playback sound source is in 5.1 format or DTS/AC3 format 2. Check whether the sound setting of the playback device is source code output or RAW external decoding output 3. If the TV is connected to ARC or fiber coaxial, please set the TV output as RAW data or source code output.
5	Unable to operate	1. The key cannot be operated: Please power on again and try again 2. Remote control cannot be operated: operate within 10M without obstacle, check whether the remote control battery is installed or installed reversely, and whether the battery power is consumed (please replace the battery) 3. You can open the camera of the mobile phone and aim it at the emission port of the remote controller. Press the button of the remote controller, and the camera will flash, indicating that the remote controller is working, and not flashing, indicating that the remote controller is not working.

Statement About Brand

The other brands mentioned in this user manual are only descriptions of compatibility with other brand products; they do not mean that this product is a product of that brand, or imply that this product has any connection or cooperation with that brand. The brand rights of all brands are owned by the owner of the brand.

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