

HD950

5.1CH Audio Decoding Digital Player



Manual

About device 5.1 hard decoding

To achieve a true 5.1 surround effect, the following three points are indispensable:

1. Film source: There are downloaded DTS Dolby AC-3 format movies and music files. 5.1 game console online 5.1 movie music channel.
2. Playback equipment: Sony PS2, PS3, PS4 with optical fiber output, Microsoft XBOX360 XBOX ONE game console with HDMI, optical fiber, coaxial (S/PDIF) output DVD Blu-ray player, hard disk player, computer, TV, set-top box, TV box, projector etc.
3. Speaker or power amplifier equipment: 5.1 power amplifier and 5.1 active speaker with 5.1 analog lotus port and 3.5MM port input. Or it can be combined into an independent 6-channel 5.1 amplifier sound.

Player source settings:

The audio source device of the player must be set to “source code” (each manufacturer has different representation methods, there are source code S/PDIF digital, bit stream, transparent transmission, automatic, RAW, etc.) output; decode it for the decoder and separate 6 channels Output through 5.1 lotus port.

Introduction

HD950 5.1CH audio decoding digital player can decode DTS, DTS-HD, DSD, Dolby Atmos, AC-3, PCM, LPCM and other digital audio format source code; U disk, hard disk, SD card playback supports high bit rate DSD256/PCM384K 32Bit DTS, AC3, WAV, FLAC, APE, MP3 and other lossless high-quality audio playback, support HDMI2.0 input source code audio decoding, support ARC audio return, support optical fiber and coaxial input decoding, support Bluetooth 5.0 wireless transmission, support AUX stereo input, realize the connection and decoding output of all audio devices in one machine. It can output through digital optical 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 of the product and the debugging interface to browse files, infrared remote control, and can be used with DVD players, Blu-ray players, network players, set-top boxes, PS2, PS3, Xbox360, PCs, home theaters, cars and many other entertainment Interconnection of equipment for use.

Features

- Support coaxial, optical fiber, two HDMI2.0, ARC audio return, AUX, Bluetooth 5.0, SD card, PC-USB, USB2.0 input, and can freely switch between different signal sources.
- The analog output can be switched between 2.0, 2.1, 3.1, 4.1 and 5.1 channel output modes, which can be flexibly configured according to the number of speakers.
- Support the menu to freely set the optical fiber, coaxial source code or PCM output or surround sound (6 lotus) output, which can be directly connected to the power amplifier and active speakers.
- HDMI2.0 resolution supports up to 4Kx2K@60fs, supports 3D.
- Adopt 24 bit/192KHz audio DSP, the fourth generation 24bit/192KHz three two-channel DAC chips, with power-on reset function.
- Support Dolby Atmos, AC3, DTS, DSD, LPCM, HDCD, PCM, Dolby digital, Dolby Prologic II and other digital audio format decoding.
- Support U disk, mobile hard disk and SD card multimedia playback of various formats DSD256/PCM384K 32Bit lossless music and 5.1 music (such as DTS, AC3, WAV, APE, FLAC, MP3, etc.), the maximum capacity of 128G/FAT32 format, or external 2.5-inch or 3.5-inch mobile hard disk, the hard disk format needs to be FAT32 format.
- The U disk supports folder and music file browsing, and supports folder selection and file playback.
- Each channel output fine-tuning 50dB.
- Five playback modes to switch between, full song loop playback, single loop playback, folder loop playback, random playback, and sequential playback.
- High-quality sound quality, low noise, mute and reset functions on the computer, better protection of the power amplifier and equipment.
- Switch input sources with one key, support simple operation of panel buttons and volume adjustment with encoding knob.
- TFT 2.8-inch color screen display, standard multi-function infrared remote control, support six-button custom learning function, can copy TV or amplifier infrared remote control.
- The display screen can display the song title, playback progress, number of files, playback mode, file format, volume and output format.
- Power-off memory function, automatically switch to the last used signal channel after restarting, USB and SD card play memory files before power-off.
- Standard 3C certified DC 12V/1A external power adapter for power supply. Wide voltage can use DC (7-20V) power supply.

Device connection description

1. Install and tighten the Bluetooth antenna. Connect the 12V/1A power adapter (please check the power supply specification, do not use non-standard power supply) to the DC power input port of the HD950 decoder, and then insert the adapter plug into the indoor power socket.

2. Connect the 5.1 or 2.0 audio (FL/FR) output port of the HD950 decoder to the input (INPUT) of the 5.1 or 2.0 power amplifier or speaker through the Lotus RCA cable, and switch the power amplifier to the corresponding 5.1 channel DTS or AC-3 input or AUX (for specific mode selection and connection, please refer to the text next to the interface of the machine).

**FL - left front, FR - right front,
SL - left surround, SR - right surround,
CEN - center, SW - subwoofer**

3. Bluetooth input mode: Turn on the HD950, switch to the Bluetooth mode (BLUE INPUT), turn on the phone's Bluetooth search device, click on the Bluetooth name (HD950) for pairing, it will display a successful connection, turn on the phone's music player and click to play music. PS cannot be paired: Delete all connected Bluetooth device records from the mobile phone or tablet device. Restart the phone or tablet to restore the Bluetooth driver of the device, and then reconnect the device.

4. It is strongly recommended to debug and connect the speaker through Bluetooth mode to ensure that the power amplifier or speaker is connected correctly with the HD950 decoder and produces sound. If there is an abnormality, please refer to the HD920 video, and connect the speaker FL or FR to the 6 output ports of the decoder one by one. Check that the decoder output is normal and then switch to other modes.

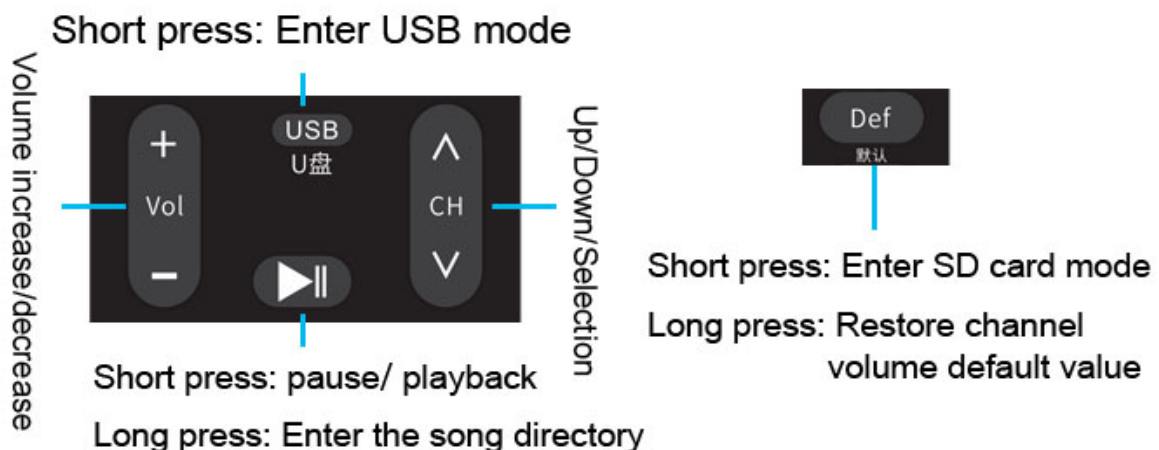
5. HDMI input mode, connect the HDMI output of the player to the HDMI1 or HDMI2 input of HD950 through the HDMI cable, connect the HDMI OUT output of HD950 to HDMI monitors, TVs, projectors and other equipment to display images, and switch the HD950 to the corresponding input line HDMI1 or HDMI2 mode input is enough.

6. Optical fiber or coaxial input mode, connect the optical fiber or coaxial output port of the player or TV to the optical fiber (OPTICAL INPUT) or coaxial (COAXIAL INPUT) input port of HD950 through an optical fiber audio cable or a 75 ohm coaxial audio cable, set the audio output of the

TV to optical or coaxial output, and switch HD950 to optical or coaxial input.

7. For the HDMI (ARC) audio return function, please use a 19+1-core HDMI standard audio cable to connect the HDMI ARC interface of the TV to the HDMI OUT (ARC) interface of the HD950, and output the audio of the TV as HDMI ARC output, HD950 switches to HDMI ARC input (ARC).

8. USB flash disk (U disk; maximum support 128GB), hard disk (maximum support 2TB), SD card (maximum support 128GB) audio playback, first check whether the format of the U disk/mobile hard disk/SD card is FAT32 16bit, if not, please format it as FAT32 format and then copy the audio files to the storage device, and you can create multi-level folders to classify and copy them in. It can be played by inserting it into the USB interface or SD card interface of the decoder, and the decoder can choose USB or SD card input. Copy the audio files to the U disk, and create a first-level folder to copy them in by category. Insert it into the USB port of the decoder to play, and switch the HD950 to the USB input mode.



9. USB-PC computer sound card: please switch the HD950 decoder to USB-PC input, use a USB cable to connect the computer USB and decoder PCUSB connection, you can normally install the computer sound card driver.

DSD format decoding is not supported in PC USB mode.

Driver download – for Windows 10 i Windows 11 (using compatibility mode): [LINK](#), other versions: [LINK](#).

10. AUX stereo input: connect the audio source device to the AUX red and white interface input of the HD950 decoder through a lotus head or a 3.5 audio cable. HD950 switches to AUX input (AUX).

11. Mobile phone OTG connection input: the mobile phone needs to support OTG function, turn on the decoder and switch to PC-USB mode, connect the decoder to the mobile phone through the USB data cable (connect the OTG adapter to the mobile phone), and turn on the external USB sound card multimedia of the mobile phone Play, enter Settings – System and Update – Developer Options – USB Debugging – Select USB Configuration – Multimedia Transfer – Exit the Settings interface – turn on the phone to play music.

Note: Select Switch Output Mode in the device’s menu for Surround 5.1 Output, OPT output & Coaxial Output, not in the remote control.

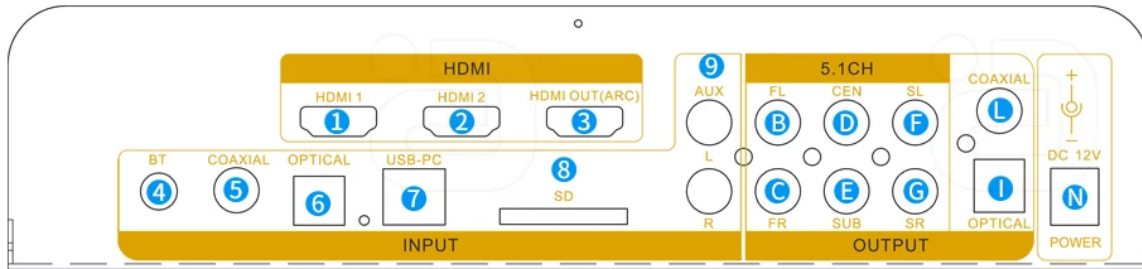
Connection diagram

Front panel



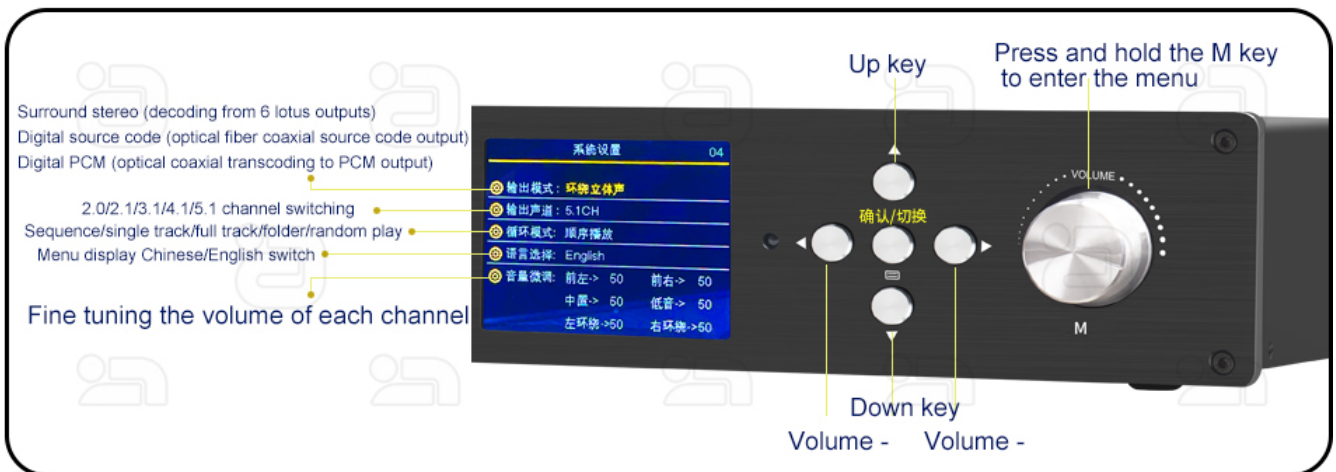
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|--|-------------------------------------|
| 1. Power switch | 2. USB interface |
| 3. TFT2.8 inch color display | 4. Infrared remote control receiver |
| 5. U disk or SD card plays the previous song | |
| 6. U disk or SD card plays the next song | |
| 7. Menu key | 8. Menu key |
| Short press: up | Short press: downward |
| Long press: page up | Long press: page down |
| 9. Play/Pause key | A. Volume adjustment knob |
| Long press: enter the file list | Short press: input switch key |
| | Long press: setting key |

Rear panel

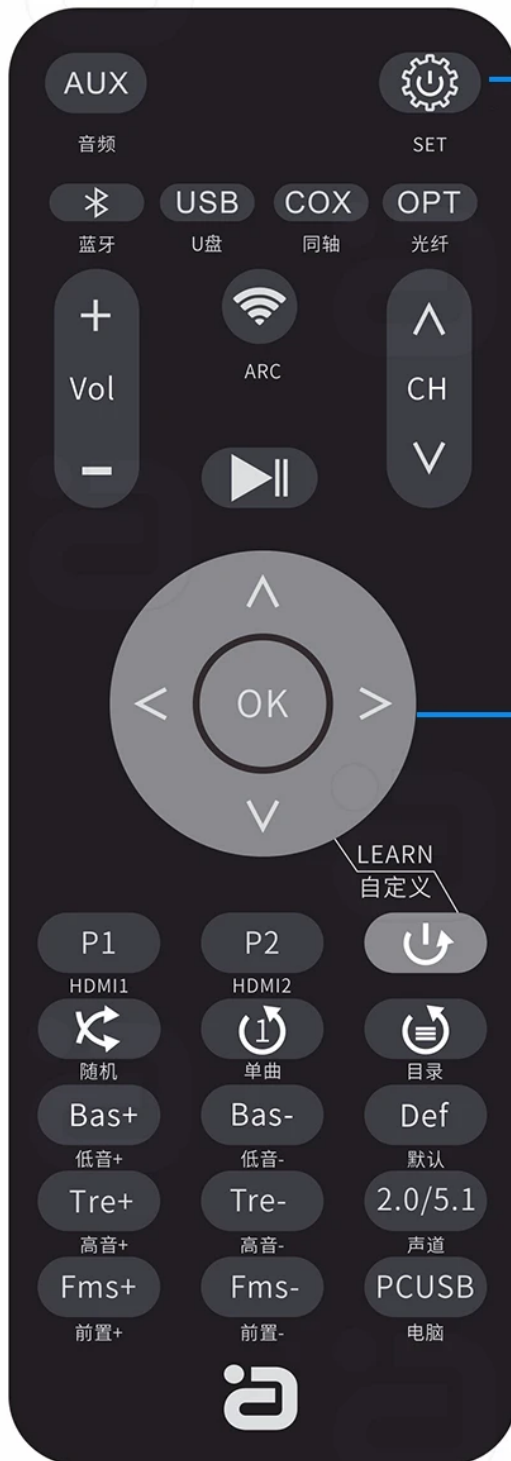


- 1. HDMI1 input
- 2. HDMI2 input
- 3. HDMI output/ARC audio return input
- 4. Bluetooth antenna interface
- 5. Coaxial signal input
- 6. Optical fiber signal input
- 7. PC-USB signal input
- 8. SD card input
- 9. AUX input
- B. Left front output port
- C: Right front output port
- D: Middle output port
- E. Bass output port
- F. Left surround output
- G. Right surround output
- L. Coaxial signal output
- I. Optical fiber signal output
- N. 12V1A power interface

Menu Settings



Remote Control



Short press: setting menu
Long press for 3 seconds: power on/off

One remote control can control the audio-visual feast

6 grey user-defined learning keys:

You can learn the remote control functions of TV or power amplifier as needed,

Smart TV scheme (for reference):

Up/down/left/right/confirm, return

Ordinary TV scheme (for reference):

Volume+/-

Programs+/-

On/Off

Operating instructions for learning function:

1. Press and hold the "OK" key for about 3 seconds, and the red LED will always light up to enter the learning state.
2. Press the key to learn, and the LED flashes to enter the learning receiving state.
3. The distance between the transmitter heads of the two remote controllers is 1-3 cm. After alignment, press the button on the TV remote controller that you want to learn and keep it loose for about 2 seconds.
4. After successful learning, the LED flashes quickly for three times and remains on for a long time.
5. Repeat steps 2-3 until all the required learning buttons of the TV remote control have been learned.
6. Do not do any operation after learning, and automatically exit the learning state after about 1 minute. If the learning key cannot operate the TV normally, please repeat steps 1-3 to relearn.
7. Note: During the learning operation, the two remote controllers must be stable without shaking.

Remote control learning key function operation instructions:

1. Press and hold the “OK” button for about 3 seconds, and the red LED light is always on to enter the learning state.
2. Press the button to learn, the LED will flicker, and enter the learning receiving state.
3. The distance between the two remote control transmitters is 1-3 cm. After aligning, press the button you want to learn on the TV remote control and hold it for about 2 seconds to release it.
4. After the learning is successful, the LED flashes three times quickly and then continues to stay on.
5. Repeat steps 2-3 until you have learned all the keys that need to be learned on the TV remote control.
6. Do not do any operation after learning, and it will automatically exit the learning state after about 1 minute. If the learning button cannot operate the TV normally, please repeat steps 1-3 to learn again.
7. Note: During the learning operation, the two remote controllers must be kept stable and must not shake.

Product Specifications:

Model:	HD950
Digital audio decoding formats:	Dolby Atmos, AC3, DTS HD, DTS, LPCM, PCM, etc.
USB/SD playback audio format:	MP3/APE/FLAC/WAV/DTS/AC3/DSD256/M4A
HDMI input resolution:	3840×2160
DSP sampling frequency/bit rate:	32~192kHz / 16~24 bit
USB sampling frequency/bit rate:	DSD256/1Bit PCM32~384KHz/16~24 Bit
Digital input level:	0.1~1Vp-p
5.1 Analog output (1kHz@0dB):	≥1.5V RMS
SNR@0dB (CCIR/ARM):	≥90dB
Distortion:	≤0.03%
Frequency Response:	20Hz ~ 20KHz
Maximum working current:	700mA
Power adapter specification:	AC 100V-240V 50/60Hz/DC 12V 1A

Working temperature:	-10~+60°C
Working humidity range:	10~90%RH (non-condensing)
Storage temperature:	-20~+60°C
Storage humidity:	5~95%RH (non-condensing)
Dimensions:	235*92*54 mm
Net weight:	900g

Common fault diagnosis and treatment methods:

Before powering on, carefully check whether the connecting wires are normal, and make sure that all interfaces are connected correctly. Common fault diagnosis and treatment methods are as follows:

1. No Power

1. Check whether the power plug is fully inserted
2. Please check whether the POWER button of the power switch is turned 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 connection line interface
3. In the HD950 menu, confirm the output mode corresponding to the wiring output port
4. Confirm whether the input audio signal format is a format supported by the product
5. Confirm that the power amplifier is turned on and connected to the machine correctly
6. Confirm the volume setting of the decoder and power amplifier and whether it has been muted
7. Whether the sound of the signal source device is set to the corresponding output signal

3. There is noise/abnormal sound

1. Confirm whether the input audio signal format is a format supported by the product
2. Check whether the wiring of each channel of the analog output of the decoder and the output of the power amplifier is correct
3. Confirm whether the connection line is intact and connected reliably

4. No 5.1 surround effects

1. Check whether the audio 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 you use a TV to connect to ARC or optical fiber coaxial, please set the TV output to RAW data or source code output

5. Inoperable

1. The button cannot be operated: please re-power on and try again
2. The remote control cannot be operated: within 10M, check whether the remote control battery is installed or reversed, and whether the battery power is exhausted (please replace the battery)
3. Press the button of the remote control, the remote control head has a flashing light, indicating that the remote control is working, and no flashing indicates that the remote control is not working

6. Bluetooth wireless pairing

- Make sure the product is in pairing mode
- Make sure that this product is within range of the paired device (the phone is connected to the device first)
- Delete all connected Bluetooth device records from your phone or tablet. Restart the phone or tablet to restore the Bluetooth driver of the device, and then reconnect the device.
- When the distance is too short or the disconnection fails, please check whether there is too much 2.4G wireless device interference around the environment (such as WiFi signal, wireless mouse, other Bluetooth devices, etc.).
- Please do not place the device on metal objects without covering. When the signal is interfered or blocked, it may also cause intermittent/stuttering of the sound.

Note: U disk can not be recognized? U disk partition table can be changed to MBR

U disks were originally in MBR format, but now they are used for one-click boot installation system, and some U disks are changed to default GPT (partition table format is GUI format). When the decoder device does not recognize GUI format U disks, we need to convert the format. For MBR format, the conversion method is as follows:

1. DiskGenius is a super hard disk partition tool, which can switch the U disk back to MBR format. Download to local installation: (Please refer to the instructions on the original official website carefully to avoid damage to the U disk). DiskGenius official website: <https://www.diskgenius.com/>

2. After connecting the U disk to the computer for recognition, copy the files in the U disk to the local hard disk of the computer for backup.
3. Refer to the picture to format the U disk into MBR format, select a partition, FAT32 format.
4. After format conversion. Just copy the audio files to the U disk.

Audio test files and audio codecs for USB PC: [LINK](#)