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AYINO EPL-1099WA

AYINO EPL-1099WA 5.1CH Surround Sound Decoder Splitter Converter User Manual

Model: EPL-1099WA | Brand: AYINO

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your AYINO EPL-1099WA 5.1CH Surround Sound Decoder Splitter Converter. This device is designed to enhance your audio and video experience by decoding various digital audio formats and providing versatile connectivity options for your home entertainment system.

2. Package Contents

Verify that all items are present in the package:

- 1x AYINO 5.1CH Audio Decoder (EPL-1099WA)
- 1x Remote Control
- 1x Power Adapter (DC 12V 1A)
- 1x Wireless Antenna
- 1x Optical Cable
- 1x USB A to USB B Cable
- 3x 2RCA Cables
- 1x OFC Audio Cable
- 1x USB C to USB Female Connector
- 1x User Manual

3. Product Overview

3.1 Front and Rear Panels



Image 1: Front and Rear Panels of the AYINO EPL-1099WA Decoder. The front panel features a power button, USB port, display screen, navigation buttons, and a volume knob. The rear panel includes various input and output ports for audio and video connections.

3.2 Front Panel Controls and Indicators

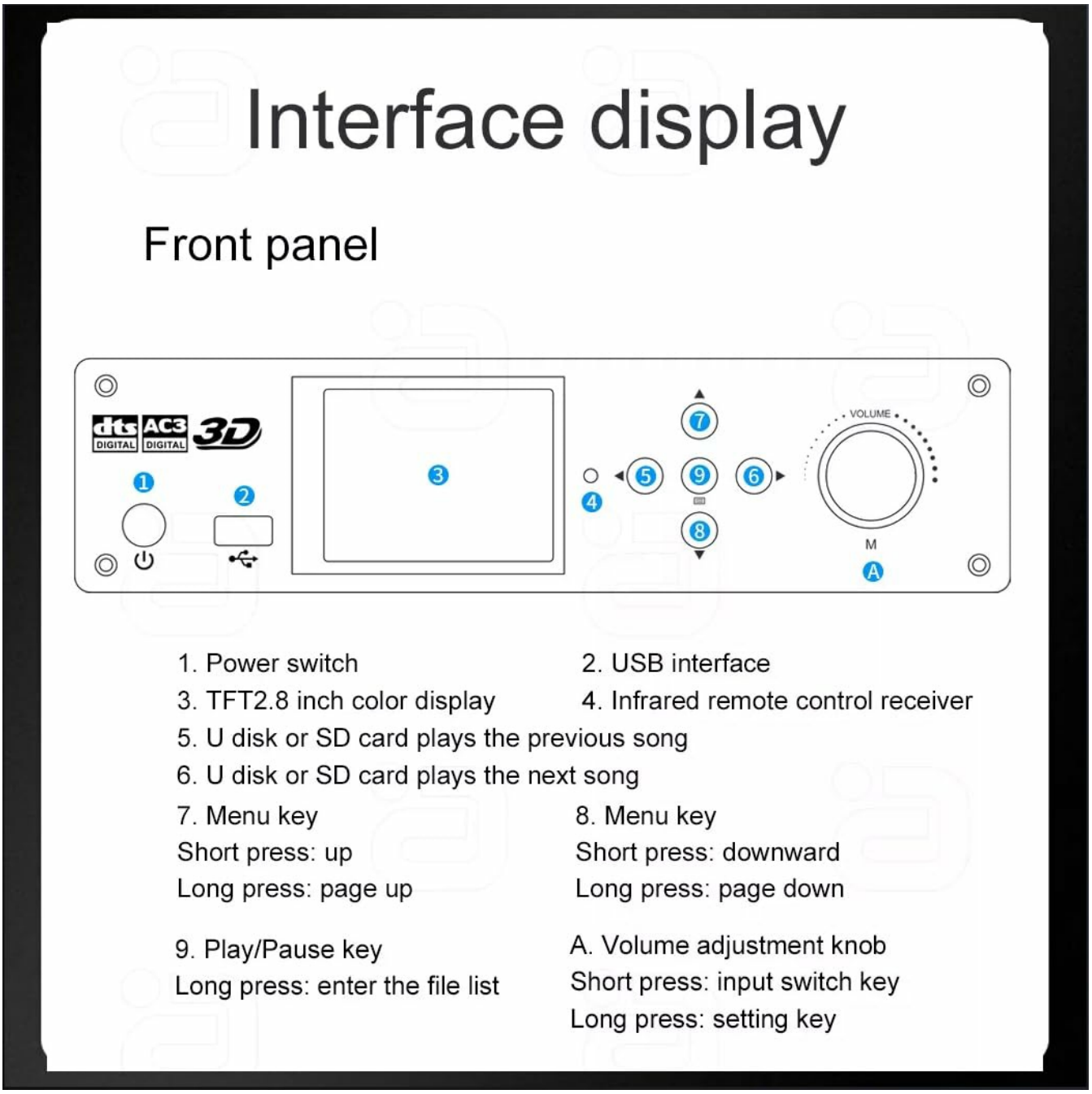


Image 2: Detailed Front Panel Interface. This image highlights the numbered controls and their functions:

1. **Power switch:** Turns the device on or off.
2. **USB interface:** For connecting USB storage devices.
3. **TFT 2.8 inch color display:** Shows current status, input source, and menu information.
4. **Infrared remote control receiver:** Receives signals from the remote control.
5. **U disk or SD card plays the previous song:** Short press for previous track.
6. **U disk or SD card plays the next song:** Short press for next track.
7. **Menu key:** Short press for 'up', long press for 'page up'.
8. **Menu key:** Short press for 'down', long press for 'page down'.
9. **Play/Pause key:** Short press to play/pause, long press to enter file list.
10. **Volume adjustment knob:** Adjusts the master volume.
11. **Input switch key:** Short press to switch input source, long press for setting key.

4. Key Features

- **Versatile Input Sources:** Supports 9 signal source inputs including 2x HDMI, ARC, PC-USB, U disk-USB, Coaxial, Optical, AUX, and Bluetooth 5.0.
- **High-Resolution Video Output:** HDMI 2.0 and HDCP 2.2 compliant, supporting 4K@60Hz, 3D, and HDR video output.
- **Advanced Audio Decoding:** Decodes various formats such as Dolby Atmos, AC3, DTS HD, DTS, LPCM, PCM, FLAC, APE, WAV, HDCD, AAC, WMV, MP3, m4a.
- **5.1 Channel Analog Output:** Provides true 5.1 channel analog audio output via RCA for connection to amplifiers or active speakers.
- **Digital Audio Output:** Coaxial and Optical digital outputs available for most input sources (excluding U disk playback).
- **High-Fidelity Audio:** Supports 192KHz/24Bit DSP sampling frequency and DSD256/1Bit PCM32~384KHz/16~24 Bit USB sampling.
- **HDMI ARC Functionality:** Audio Return Channel support for simplified audio routing from compatible TVs. Requires HDMI 2.0 (19+1 core) cable.
- **USB/SD Playback:** Direct playback of audio files from USB drives and SD cards (up to 128GB for USB/SD, up to 2TB for hard disk).
- **Bluetooth 5.0 Connectivity:** Wireless audio streaming from mobile devices.
- **Intuitive Control:** Features a 2.8-inch TFT color display, front panel buttons, and an infrared remote control for easy operation and volume adjustment for each channel.

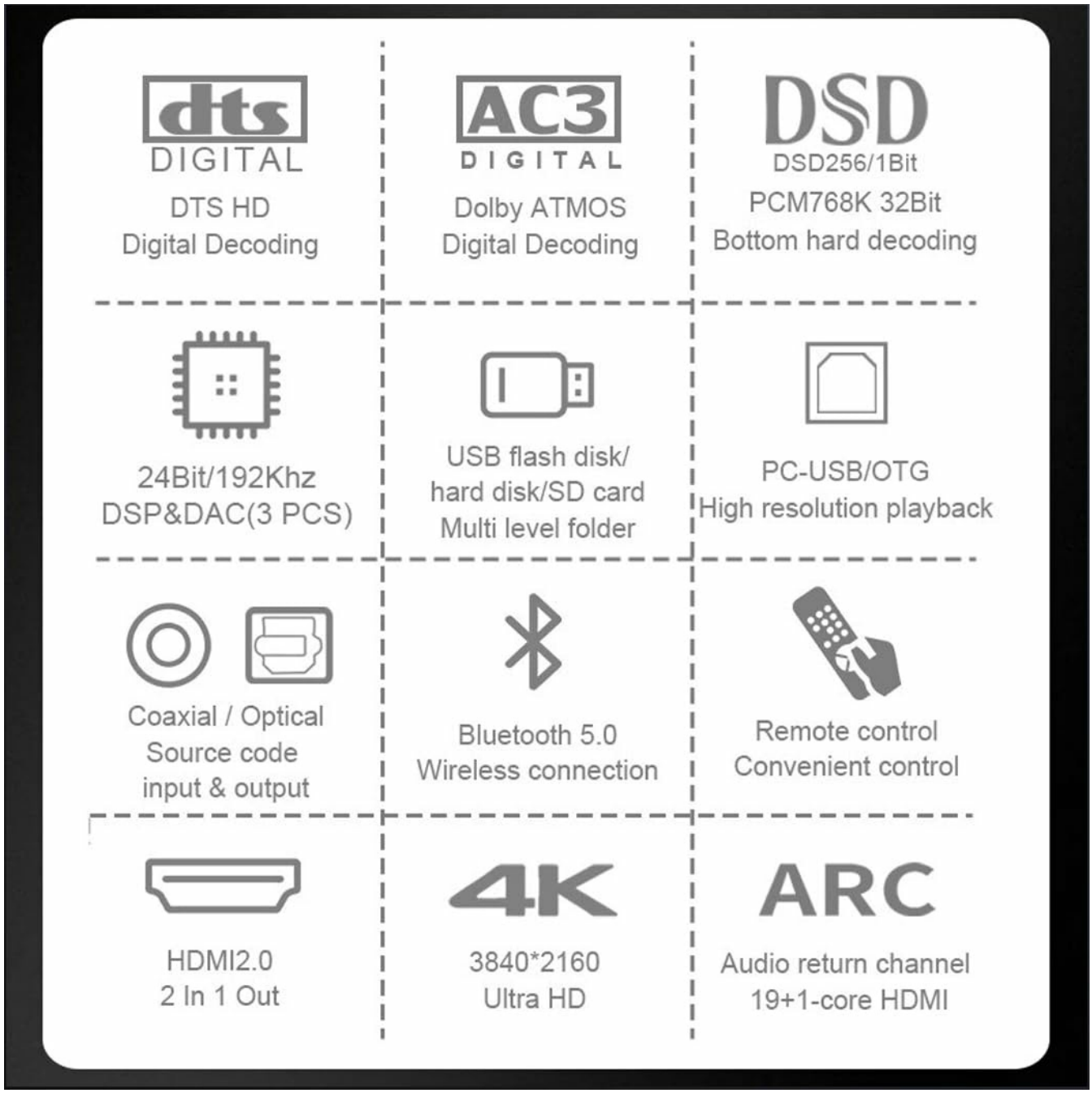


Image 3: Overview of Key Features. This image visually summarizes the decoder's capabilities, including DTS HD, Dolby Atmos, DSD, 24Bit/192Khz DSP&DAC, USB/SD/Hard disk support, PC-USB/OTG, Coaxial/Optical I/O, Bluetooth 5.0, Remote Control, 4K Ultra HD, and ARC.



Image 4: HIFI Lossless Digital Decoder Player Capabilities. This image illustrates support for USB drives (up to 128GB), SD cards (up to 128GB), 2TB hard disks, multi-level folders, a large color display for track browsing, and DSD256/PCM768 lossless decoding for various audio formats.

5. Setup Instructions

5.1 Connection Diagram



Image 5: Interface Connection Diagram. This diagram illustrates various input and output connections, including HDMI I/O for set-top boxes, game consoles, and TVs (ARC), 5.1 CH/Optical/Coaxial Output to 5.1 speakers, power amplifiers, or 2.0 speakers, U disk play, Bluetooth 5.0, and Optical/Coaxial/PC-USB/SD inputs from devices like set-top boxes, game consoles, notebooks, and SD cards.

5.2 Connecting Your Devices

1. **Power Connection:** Connect the provided DC 12V 1A power adapter to the "DC 12V" port on the rear panel and then to a power outlet.
2. **HDMI Input:** Connect your source devices (e.g., Blu-ray player, game console, set-top box) to the "HDMI1" or "HDMI2" input ports using HDMI cables.
3. **HDMI Output (ARC):** Connect the "HDMI OUT (ARC)" port to your TV or projector's HDMI ARC-enabled input using a high-quality HDMI 2.0 (19+1 core) cable for both video output and audio return functionality.

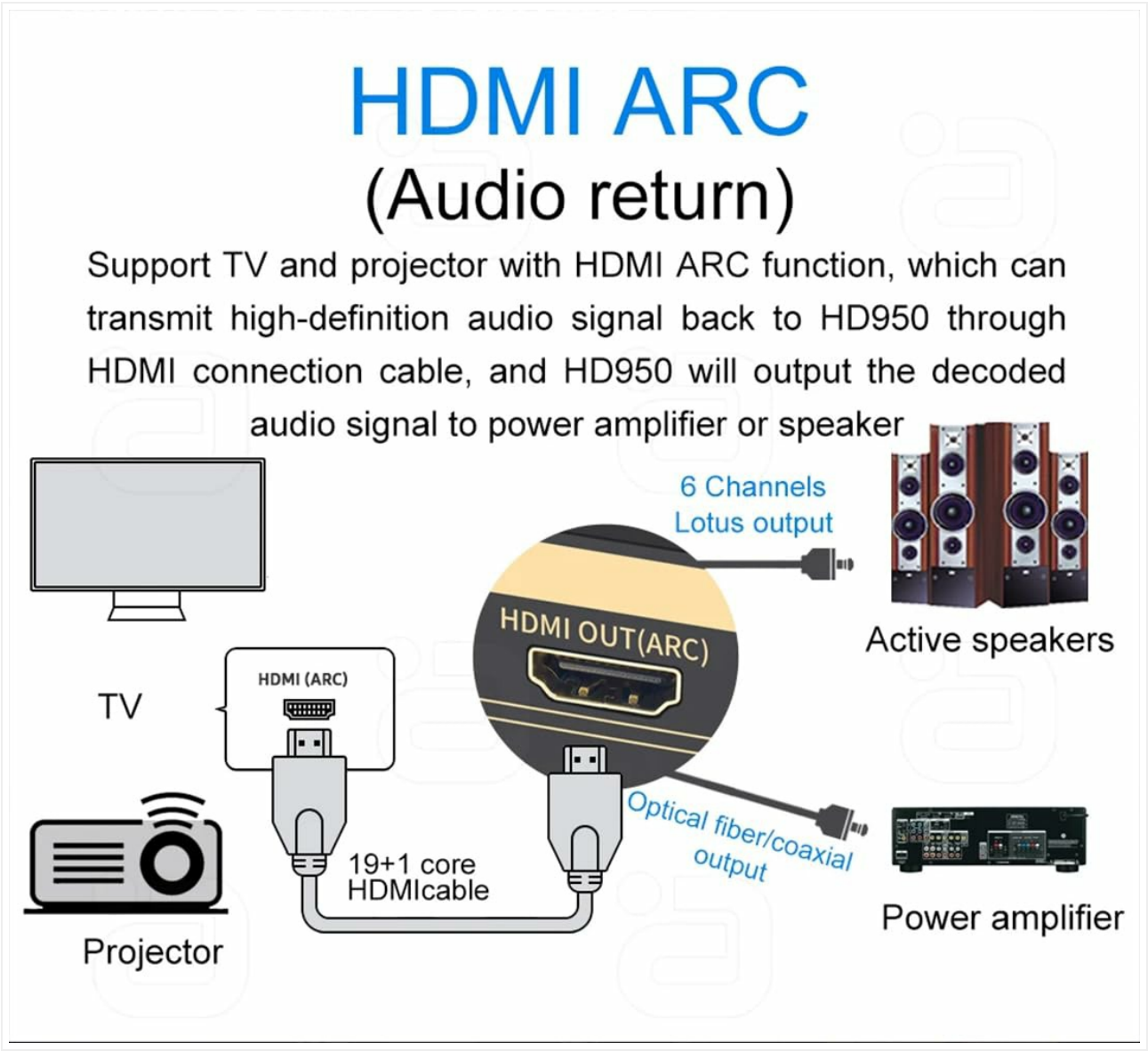


Image 6: HDMI ARC (Audio Return) Function. This diagram shows how to connect the HDMI OUT (ARC) port to a TV or projector with ARC functionality using a 19+1 core HDMI cable. The decoded audio signal can then be output to a power amplifier or active speakers via the 6-channel RCA outputs or Optical/Coaxial digital outputs.

4. **Analog Audio Output (5.1CH):** Connect the "FL", "FR", "CEN", "SUB", "SL", "SR" RCA outputs to the corresponding 5.1 channel analog inputs on your power amplifier or active speakers.
5. **Digital Audio Output:** For digital audio output, connect the "COAXIAL" or "OPTICAL" output ports to a digital amplifier or digital speakers using a coaxial or optical cable, respectively.
6. **Other Audio Inputs:**
    - **AUX:** Connect analog audio sources using RCA cables.
    - **COAXIAL/OPTICAL:** Connect digital audio sources using coaxial or optical cables.
    - **PC-USB:** Connect to a computer for use as an external sound card.
    - **USB/SD:** Insert a USB drive or SD card into the respective slots for media playback.
    - **Bluetooth:** Pair your mobile device via Bluetooth 5.0 for wireless audio streaming. Attach the wireless antenna to the "BT" port for optimal reception.
7. **Antenna Connection:** Screw the provided wireless antenna into the "BT" port on the rear panel for Bluetooth functionality.

Note: This device is a decoder and splitter, not an amplifier. If you are connecting to passive speakers, an external amplifier is required.

6. Operating Instructions

6.1 Power On/Off

Press the **Power switch** on the front panel or the power button on the remote control to turn the device on or off.

6.2 Input Source Selection

Short press the **Input switch key** on the front panel or use the corresponding input buttons (e.g., HDMI1, HDMI2, AUX, OPT, COX, BT, USB, SD, PC-USB) on the remote control to select your desired audio/video source. The selected input will be displayed on the TFT color screen.

6.3 Volume Adjustment

Rotate the **Volume adjustment knob** on the front panel or use the **Vol+** / **Vol-** buttons on the remote control to adjust the master volume. Each channel's volume can also be adjusted separately using the remote control.
Note: When audio is sourced from a set-top box, volume control is limited to the decoder's remote or buttons; TV remote control will not adjust the volume.

6.4 Media Playback (USB/SD/PC-USB)

- **USB/SD Playback:** Insert a USB drive or SD card into the designated slot. Use the **Previous**/**Next song** buttons and **Play**/**Pause** key on the front panel or remote control to navigate and play media. Long press the Play/Pause key to enter the file list.
- **PC-USB:** Connect the device to your computer via the PC-USB port. The decoder will function as an external sound card.

6.5 Remote Control Operation



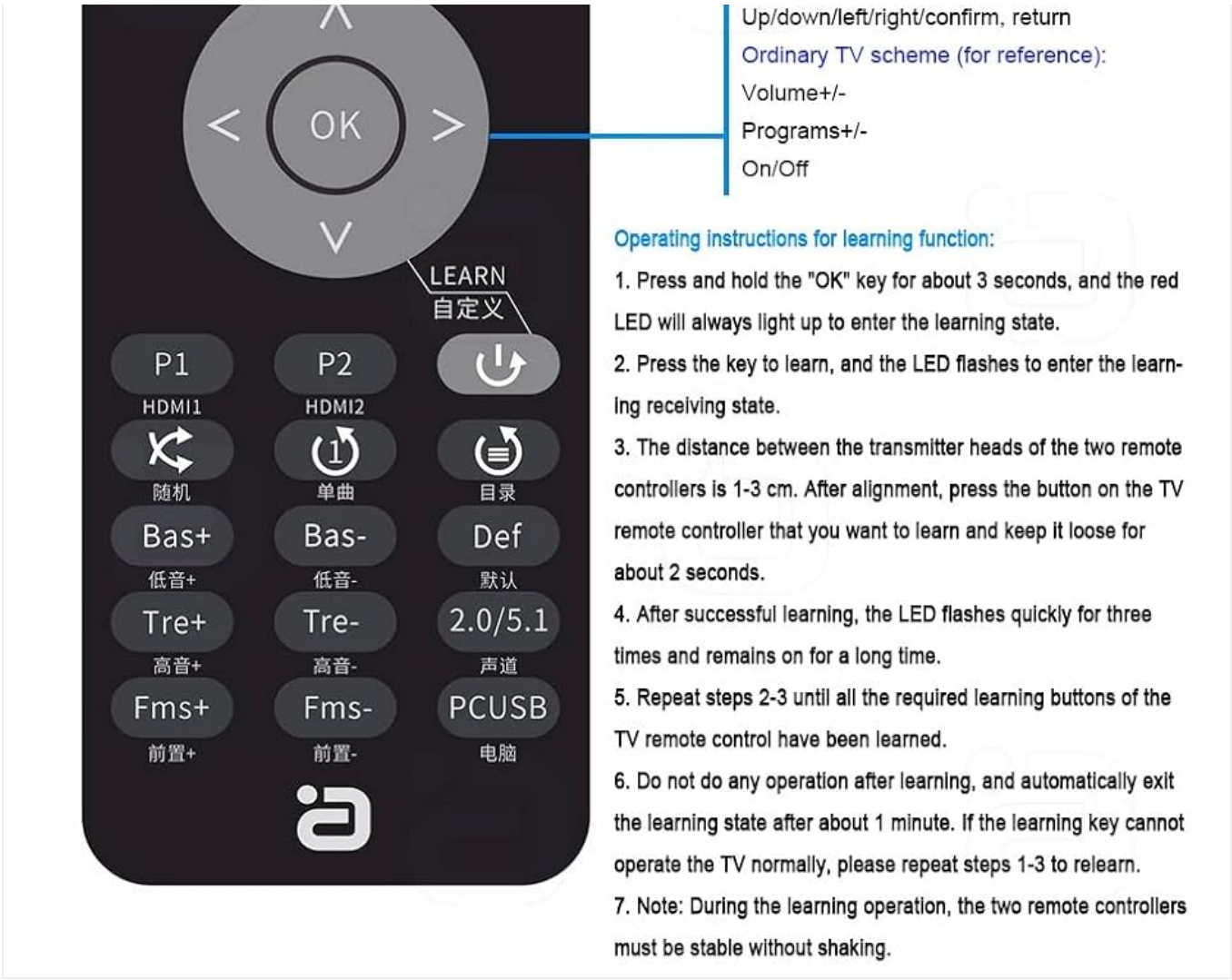


Image 7: Remote Control Layout. The remote control provides comprehensive control over the decoder's functions, including input selection, volume adjustment, menu navigation, and playback controls. It also features user-defined learning keys for integrating TV or amplifier remote functions.

Remote Control Learning Function:

The remote control includes 6 grey user-defined learning keys (P1, P2, etc.) that can learn functions from your TV or amplifier remote control.

1. Press and hold the "OK" key for about 3 seconds. The red LED will light up to indicate learning state.
2. Press the key on the AYINO remote that you wish to program. The LED will flash to indicate it is ready to receive a signal.
3. Align the transmitter heads of the two remote controls (1-3 cm apart). Press the button on your TV/amplifier remote that you want to learn. The LED on the AYINO remote will flash quickly three times and then remain on for a long time, indicating successful learning.
4. Repeat steps 2-3 for all desired learning buttons.
5. If no operation occurs for about 1 minute, the learning state will automatically exit. If a key cannot be learned, repeat steps 1-3.
6. During the learning operation, ensure the two remote controls are stable and not shaking.

7. Supported Formats and Resolutions

- **Digital Audio Decoding Formats:** Dolby Atmos, AC3, DTS HD, DTS, LPCM, PCM, FLAC, APE, WAV, HDCD, AAC, WMV, MP3, m4a, etc.
- **USB/SD Playback Audio Formats:** MP3/APE/FLAC/WAV/DTS/AC3/DSD256/M4A.

- **HDMI Input Resolution:** Up to 3840*2160 (4K).
- **DSP Sampling Frequency/Bit Rate:** 32~192KHz/16~24bit.
- **USB Sampling Frequency/Bit Rate:** DSD256/1Bit PCM32~384KHz/16~24 Bit.
- **Video Output:** Supports 4K@60Hz HD video output to monitor, HDTV, or projector, and supports 3D.



Image 8: HDMI 2.0 4K Resolution Support. This image demonstrates the decoder's capability to support 4K (3840*2160p) HD resolution, providing clearer and more detailed visuals for an enhanced viewing experience compared to 1080p and 720p.

8. Troubleshooting

- **No Power:**
  - Ensure the power adapter is securely connected to the device and a working power outlet.
  - Verify the power outlet is active.
- **No Audio Output:**
  - Check if the correct input source is selected on the decoder.
  - Verify all audio cables (RCA, Optical, Coaxial) are securely connected to both the decoder and the receiving

amplifier/speakers.
    - Ensure the amplifier/speakers are powered on and set to the correct input.
    - Adjust the volume on both the decoder and the amplifier/speakers.
    - If using HDMI ARC, ensure your HDMI cable is HDMI 2.0 (19+1 core) and connected to an ARC-enabled port on your TV.
    - Confirm the source device is outputting audio in a format supported by the decoder.
    - If connecting to passive speakers, ensure an external amplifier is used.
- **No Video Output:**
    - Ensure HDMI cables are securely connected between the source, decoder, and display device (TV/projector).
    - Verify the display device is set to the correct HDMI input.
    - Check the resolution settings on your source device to ensure compatibility with your display and the decoder.
- **Remote Control Not Working:**
    - Check and replace the batteries in the remote control.
    - Ensure there are no obstructions between the remote control and the decoder's IR receiver.
    - Point the remote directly at the IR receiver on the front panel.
- **USB/SD Playback Issues:**
    - Ensure the USB drive or SD card is formatted correctly (FAT32 or NTFS).
    - Verify the audio files are in a supported format (MP3, APE, FLAC, WAV, DTS, AC3, DSD256, M4A).
    - Check if the USB drive or SD card capacity exceeds the supported limit (128GB for USB/SD, 2TB for hard disk).

9. Specifications

Feature	Specification
Brand	AYINO
Model Number	EPL-1099WA
Digital Audio Decoding Formats	Dolby Atmos, AC3, DTS HD, DTS, LPCM, PCM, FLAC, APE, WAV, HDCD, AAC, WMV, MP3, m4a, etc.
USB/SD Playback Audio Formats	MP3/APE/FLAC/WAV/DTS/AC3/DSD256/M4A
HDMI Input Resolution	3840*2160 (4K)
DSP Sampling Frequency/Bit Rate	32~192KHz/16~24bit
USB Sampling Frequency/Bit Rate	DSD256/1Bit PCM32~384KHz/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
Power Adapter Specification	AC 100V-240V 50/60Hz / DC 12V 1A
Inputs	2×HDMI/ARC/PC-USB/U disk-USB/COXIAL/OPTICAL/AUX / BT-5.0
Outputs	5.1ch (RCA)/2.0ch (FL/FR)/HDMI/COXIAL/OPTICAL
Product Dimensions	17.3 x 8.2 x 4.6 cm
Item Weight	980 g
Material	Plastic

10. Maintenance

- **Cleaning:** Use a soft, dry cloth to clean the device. Do not use liquid cleaners or aerosols.
- **Ventilation:** Ensure the device has adequate ventilation. Do not block any ventilation openings.
- **Storage:** Store the device in a cool, dry place away from direct sunlight and extreme temperatures.
- **Cable Management:** Periodically check all cable connections for security and wear.

11. Important Notes

- This device is a decoder and splitter. It does not function as an amplifier. An external amplifier is required for passive speakers.
- For HDMI ARC functionality, use an HDMI 2.0 (19+1 core) cable.
- Digital output (Coaxial/Optical) is not supported for U disk playback.
- When using a set-top box as an audio source, volume control is only available via the decoder's remote or front panel buttons, not the TV remote.

12. Warranty and Support

For warranty information and technical support, please refer to the documentation provided with your purchase or contact AYINO customer service. Contact details for the packer are: Etzin PVT LTD Mumbai, India. Help-Line No. +91-22-49696922.
You can also visit the official AYINO store for more information:AYINO Store

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