

## Tendak AV-226-BK

# Tendak 4K HDMI Audio Extractor User Manual

Model: AV-226-BK

Brand: Tendak

## 1. INTRODUCTION

The Tendak 4K HDMI Audio Extractor (Model AV-226-BK) is a versatile device designed to separate audio signals from an HDMI source. This allows you to output high-definition video to a display while simultaneously routing audio to a separate sound system, headphones, or speakers. It supports advanced video resolutions up to 4K@60Hz and offers multiple audio output options for enhanced home theater or gaming setups.

## 2. PRODUCT FEATURES

- **HDMI 2.0 Audio Extraction:** Extracts digital audio signals from an HDMI input, providing output via optical (SPDIF) and 3.5mm (L/R) stereo interfaces. Ideal for connecting HDMI sources to audio systems lacking HDMI audio input.
- **Ultra HD 4K@60Hz Resolution:** Supports video resolutions up to 4Kx2K@60Hz, including backward compatibility with 4K@30Hz, 1080p 3D@60Hz, 1080i, and 720p. It also supports RGB 4:4:4 / YUV 4:4:4 / YUV 4:2:2 color formats, HDCP 2.2 and HDCP 1.4, and HDR 10 for enhanced visual quality.
- **Integrated Volume Control:** Features a volume knob to control the analog audio output (3.5mm AUX and R/L). It supports various audio formats including AC-3, DTS, DTS-HD, Dolby-TrueHD, DSD, and LPCM7.1.
- **Broad Device Compatibility:** Compatible with a wide range of HDMI-enabled devices such as Blu-ray players, DVD players, laptops, PCs, gaming consoles (PS4, PS5, Xbox One), and displays like UHD TVs, HDTVs, monitors, and projectors.
- **Plug and Play Operation:** Requires no additional drivers for installation. The device is powered via an included USB cable, which can be connected to an HDMI source device or a DC 5V/1A power adapter.

## 3. PACKAGE CONTENTS

Please check the package contents upon opening to ensure all items are present:

- 1x Tendak HDMI Audio Extractor
- 1x Optical Cable
- 1x USB Power Cable
- 1x User Manual

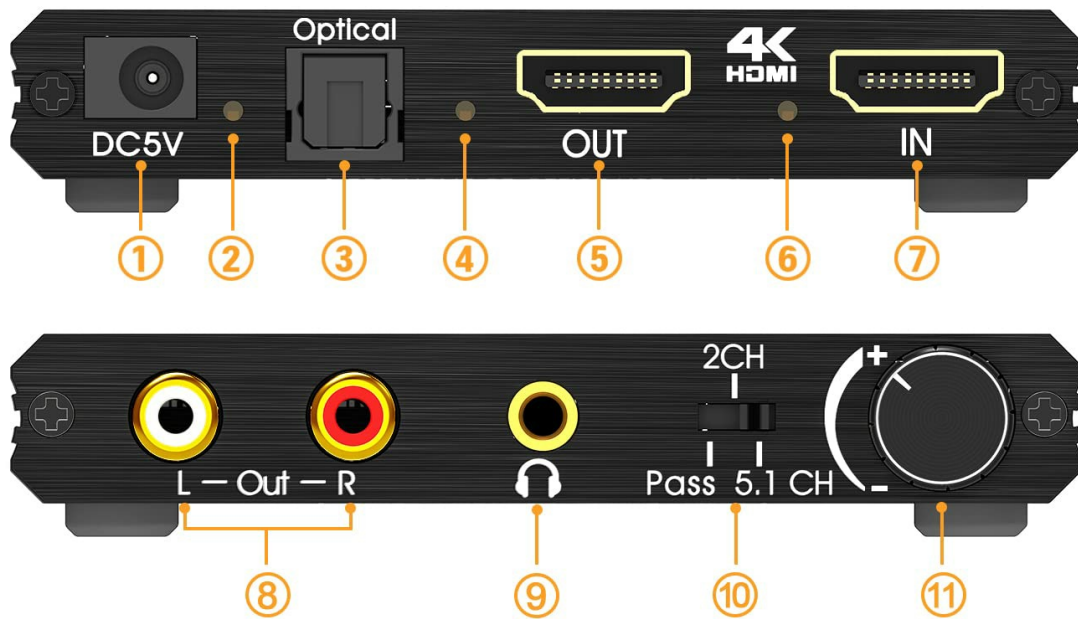
# PACKING LIST



Image: The Tendak HDMI Audio Extractor unit, along with the included optical cable, USB power cable, and user manual.

## 4. PRODUCT DIAGRAM AND INTERFACES

# Diagram of Interfaces



- ① Power input interface, connected to the USB power supply line, and then connected to the 5V 1A power adapter
- ② Power indicator, it lights up when the 5V 1A power adapter is correctly connected
- ③ Optical output interface, connected to the audio system
- ④ High-definition output indicator, which lights up when correctly connected to the display device
- ⑤ High-definition output interface, connected to TV or projector, monitor, etc
- ⑥ High-definition input indicator, which lights up when correctly connected to the display device
- ⑦ High-definition input interface, connected to TV or projector, monitor, etc.
- ⑧ R/L Audio output interface, connected to the audio system
- ⑨ 3.5mm jack audio output interface, connected to headphone or audio system.
- ⑩ Audio format (EDID) selection switch
- ⑪ Volume Control Knob

Image: Detailed diagram illustrating the various input and output ports, indicators, and controls on the Tendak HDMI Audio Extractor.

1. **DC5V Power Input:** Connects to the USB power supply cable for device power.
2. **Power Indicator:** Illuminates when the 5V 1A power adapter is correctly connected.
3. **Optical Output (SPDIF):** Connects to an audio system for digital audio output.
4. **HDMI OUT Indicator:** Lights up when correctly connected to a display device.
5. **HDMI OUT Port:** Connects to your TV, monitor, or projector.
6. **HDMI IN Indicator:** Lights up when correctly connected to the HDMI source device.
7. **HDMI IN Port:** Connects to your HDMI source device (e.g., Blu-ray player, game console).
8. **R/L Audio Output (RCA):** Connects to an audio system for analog stereo audio output.
9. **3.5mm Jack Audio Output:** Connects to headphones or speakers for analog stereo audio output.
10. **Audio Format (EDID) Selection Switch:** Selects between 2CH, Pass-through, or 5.1CH audio modes.
11. **Volume Control Knob:** Adjusts the volume level for the analog audio outputs (3.5mm and R/L RCA).

## 5. SETUP INSTRUCTIONS

Follow these steps to set up your Tendak 4K HDMI Audio Extractor:

1. **Connect HDMI Source:** Plug one end of an HDMI cable into the HDMI output of your source device (e.g., PS5, Blu-ray player) and the other end into the **HDMI IN** port of the Tendak Audio Extractor.
2. **Connect Display:** Connect one end of another HDMI cable to the **HDMI OUT** port of the Tendak Audio Extractor and the other end to the HDMI input of your display (e.g., TV, monitor, projector).
3. **Connect Audio Output:** Choose your preferred audio output method:
  - For digital audio, connect an optical cable from the **Optical OUT** port of the extractor to your soundbar or surround sound system.
  - For analog stereo audio, connect a 3.5mm audio cable from the **3.5mm OUT** port to your headphones or stereo speakers.
  - Alternatively, use RCA cables to connect the **R/L OUT** ports to your stereo receiver or amplifier.
4. **Power On:** Connect the included USB power cable to the **DC5V** port on the extractor. Plug the other end of the USB cable into a USB port on your HDMI source device (if available and provides sufficient power) or a standard DC 5V/1A USB power adapter (not included). The Power Indicator LED will light up.
5. **Select Audio Mode:** Use the EDID selection switch on the extractor to choose your desired audio output mode (2CH, Pass, or 5.1CH) based on your audio setup and source content. Refer to the Operating Instructions section for details on each mode.

# HDMI 2.0 Audio Extractor

Support 5.1CH Digital / 2.0CH Analog Audio Output

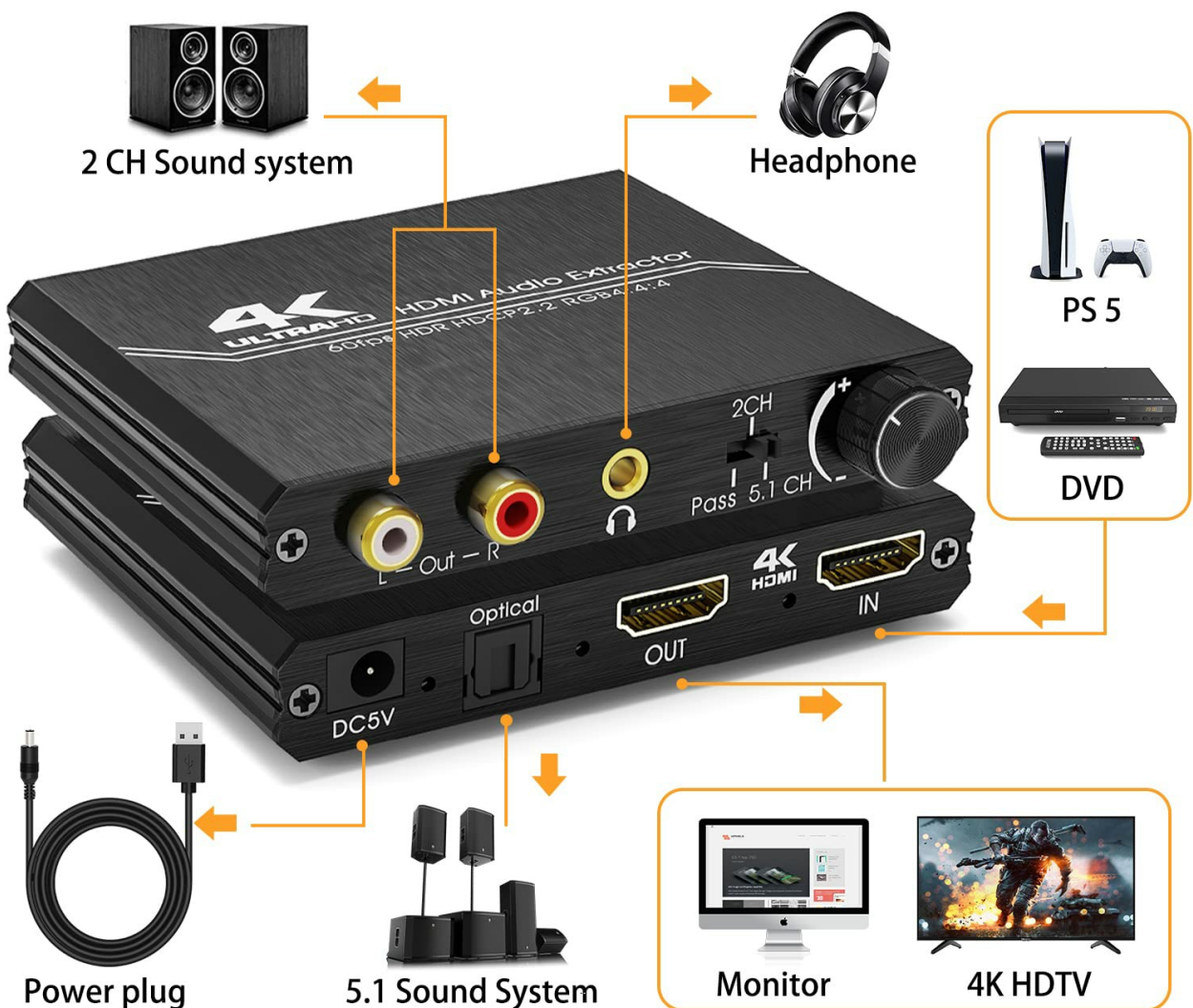


Image: A visual guide demonstrating how to connect various devices to the Tendak HDMI Audio Extractor, including HDMI

input/output, optical, RCA, and 3.5mm audio connections.

## 6. OPERATING INSTRUCTIONS

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Once connected, operate your Tendak HDMI Audio Extractor using the following guidelines:

### 6.1. Audio Mode Selection (EDID Switch)

The EDID switch allows you to control how the audio signal is processed and outputted:

- **2CH Mode:** In this mode, the extractor will output 2-channel stereo audio. This is suitable for most stereo sound systems, headphones, or speakers connected via the 3.5mm AUX or R/L (RCA) ports. The optical output will also be 2-channel PCM.
- **5.1CH Mode:** This mode is designed for multi-channel audio systems. It will output 5.1-channel audio via the Optical (SPDIF) port. Ensure your connected audio system supports 5.1-channel input (e.g., Dolby Digital, DTS). The 3.5mm AUX and R/L (RCA) outputs will still provide 2-channel stereo audio.
- **Pass Mode:** In Pass-through mode, the audio signal from the HDMI input is passed directly to the HDMI output without modification. Audio extraction via the optical, 3.5mm, and RCA ports will depend on the source audio format and the capabilities of the connected audio system. This mode is often used when the display or downstream device is responsible for audio decoding.

### 6.2. Volume Adjustment

The volume control knob on the extractor specifically adjusts the output level for the 3.5mm AUX and R/L (RCA) analog audio outputs. Rotate the knob clockwise to increase volume and counter-clockwise to decrease volume. This control does not affect the volume of the HDMI pass-through or the optical digital audio output.



Image: The Tendak HDMI Audio Extractor connected to a monitor and speakers, highlighting the volume adjustment knob and its function for analog audio outputs.

### 6.3. Official Product Video

Watch this official video from Tendak for a visual overview of the HDMI Audio Extractor's features and functionality.

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Video: An official product video showcasing the Tendak HDMI 2.0 Audio Extractor, its various ports, and how it functions to separate audio from HDMI signals.

## 7. MAINTENANCE

To ensure the longevity and optimal performance of your Tendak HDMI Audio Extractor, please follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the device. Do not use liquid or aerosol cleaners, as they may damage the unit.
- **Ventilation:** Ensure the device is placed in a well-ventilated area to prevent overheating. Do not block any ventilation openings.

- **Storage:** When not in use for extended periods, store the device in a cool, dry place away from direct sunlight and extreme temperatures.
- **Handling:** Handle the device with care. Avoid dropping it or subjecting it to strong impacts.
- **Power Supply:** Always use the provided USB power cable and a compatible 5V/1A power source. Using an incorrect power supply may damage the device.

## 8. TROUBLESHOOTING

If you encounter issues with your Tendak HDMI Audio Extractor, please refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No Video Output	Loose HDMI cables; Incorrect input selection on display; No power to extractor.	Ensure all HDMI cables are securely connected. Verify your display is set to the correct HDMI input. Check if the power indicator on the extractor is lit.
No Audio Output	Loose audio cables; Incorrect EDID switch setting; Audio system not powered on or set to correct input; Source audio format incompatibility.	Check all audio cable connections. Adjust the EDID switch to the appropriate mode (2CH, 5.1CH, or Pass). Ensure your audio system is on and selected to the correct input. Verify the source audio format is supported by the extractor and your audio system. Increase volume on the extractor (for analog outputs) and your audio system.
Intermittent Video/Audio	Poor quality HDMI cables; Insufficient power supply; Signal interference.	Try using high-quality, certified HDMI cables. Ensure the extractor is receiving stable 5V/1A power. Minimize interference from other electronic devices.
No 5.1 Channel Audio	EDID switch not set to 5.1CH; Source not outputting 5.1 audio; Audio system does not support the specific 5.1 format (e.g., DTS-HD, Dolby TrueHD).	Set the EDID switch to 5.1CH. Confirm your source device is configured to output 5.1 channel audio. Ensure your audio system supports the incoming 5.1 audio format (e.g., Dolby Digital, DTS). Note that 3.5mm and RCA outputs are always 2-channel.
Volume Knob Not Working	Attempting to control digital audio (HDMI pass-through or Optical); Analog outputs not connected.	The volume knob only controls the 3.5mm AUX and R/L (RCA) analog audio outputs. It does not affect HDMI or Optical digital audio. Ensure analog outputs are connected.

## 9. SPECIFICATIONS

<b>Model Number</b>	AV-226-BK
<b>HDMI Compliance</b>	HDMI 2.0
<b>HDCP Compliance</b>	HDCP 2.2 / 1.4
<b>Video Resolution</b>	Up to 4Kx2K@60Hz (YUV 4:4:4)
<b>Color Depth</b>	8-bit, 10-bit, 12-bit
<b>Supported Audio Formats (Optical)</b>	PCM 2.0, Dolby Digital, DTS 5.1
<b>Supported Audio Formats (Analog)</b>	2.0CH PCM
<b>Input Ports</b>	1x HDMI
<b>Output Ports</b>	1x HDMI, 1x Optical (SPDIF), 1x 3.5mm AUX, 1x R/L (RCA)
<b>Power Supply</b>	DC 5V/1A (via USB)
<b>Product Dimensions</b>	3.54 x 3.15 x 0.59 inches (9.5 x 8.2 x 1.5 cm)
<b>Product Weight</b>	7.62 ounces
<b>Operating Temperature</b>	0°C to 40°C (32°F to 104°F)
<b>Storage Temperature</b>	-20°C to 60°C (-4°F to 140°F)

## 10. WARRANTY AND SUPPORT

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Tendak products are designed for reliability and performance. For technical assistance, troubleshooting beyond this manual, or inquiries regarding warranty coverage, please contact Tendak customer service directly. You can typically find contact information on the product packaging, the official Tendak website, or through the retailer where you purchased the product. Please have your model number (AV-226-BK) and purchase details ready when contacting support.