

## avedio links 4K HDMI Audio Extractor Splitter

# avedio links 4K HDMI Audio Extractor Splitter User Manual

Model: 4K HDMI Audio Extractor Splitter

Brand: avedio links

## INTRODUCTION

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This manual provides detailed instructions for the setup, operation, and maintenance of your avedio links 4K HDMI Audio Extractor Splitter. This device is designed to extract audio from a digital HDMI signal, allowing it to be output to various audio systems while simultaneously passing the video signal to a display.

The product bundle includes:

- 1 x avedio links 4K HDMI Audio Extractor Splitter (Model 1: with PASS/2CH/5.1CH switch)
- 1 x avedio links 4K@60Hz HDMI 2.0b Audio Extractor Splitter Converter (Model 2: with ARC ON/OFF, TV/2.0/5.1 switch)
- 1 x 3.9FT HDMI Cable
- Power Adapter (for each unit, if applicable, or one shared)
- User Manual (this document)

Please read this manual thoroughly before use to ensure proper functionality and to avoid damage to the device or connected equipment.

## PRODUCT OVERVIEW

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### Model 1: 4K HDMI Audio Extractor Splitter

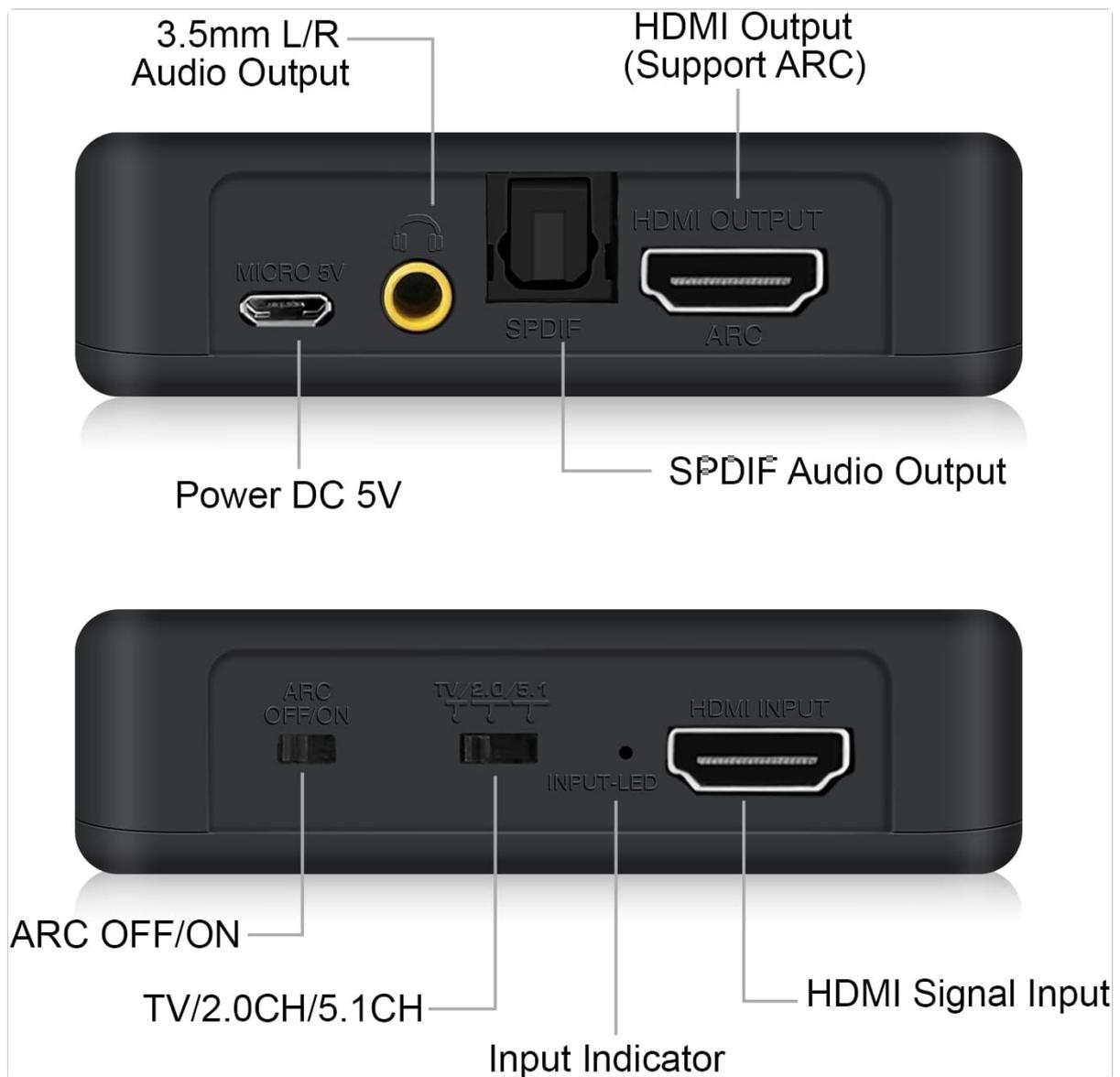


This image displays the compact design of the avedio links HDMI Audio Extractor. The top unit shows the DC 5V power input, PWR indicator, HDMI IN port, and a switch for audio modes (PASS, 2CH, 5.1CH). The bottom unit shows the HDMI OUT port, SPDIF optical audio output, and L/R RCA stereo audio outputs. Its small size makes it easy to integrate into any setup.

### Port and Switch Descriptions (Model 1):

- **DC 5V:** Power input port. Connect the provided 5V DC power adapter here.
- **PWR:** Power indicator LED. Illuminates when the device is powered on.
- **HDMI IN:** HDMI input port. Connect your HDMI source device (e.g., Blu-ray player, game console, laptop) here.
- **PASS/2CH/5.1CH Switch:** Audio EDID mode selection switch.
  - **PASS:** The SPDIF and L/R output audio format depends on the TV's EDID (Extended Display Identification Data).
  - **2CH:** The SPDIF and L/R output audio format is LPCM 2CH stereo audio.
  - **5.1CH:** The SPDIF output supports 2CH PCM, 5.1CH Dolby Digital, Dolby True HD, DTS-HD, DTS. The L/R output will be 2CH PCM.
- **HDMI OUT:** HDMI output port. Connect to your display device (e.g., HDTV, monitor, projector).
- **SPDIF:** Optical digital audio output. Connect to an amplifier, soundbar, or other audio system for multi-channel audio.
- **L/R:** RCA stereo audio outputs. Connect to a stereo amplifier or speakers for 2-channel audio.

### Model 2: 4K@60Hz HDMI 2.0b Audio Extractor Splitter Converter



This image provides a detailed look at the second avedio links HDMI Audio Extractor model. It highlights the ARC ON/OFF switch, the TV/2.0/5.1 audio mode switch, HDMI Input, Micro 5V power input, 3.5mm L/R audio output, SPDIF optical output, and HDMI Output with ARC support.

### Port and Switch Descriptions (Model 2):

- **MICRO 5V:** Power input port. Connect the provided 5V DC power adapter here.
- **HDMI INPUT:** HDMI input port. Connect your HDMI source device (e.g., Blu-ray player, game console, laptop) here.
- **INPUT-LED:** Input indicator LED.
- **TV/2.0/5.1 Switch:** Audio EDID mode selection switch.
  - **TV:** The audio format is determined by the connected TV's EDID.
  - **2.0CH:** Outputs 2-channel stereo audio via 3.5mm and SPDIF.
  - **5.1CH:** Outputs 5.1-channel audio via SPDIF (if supported by source and receiver).
- **ARC OFF/ON:** Audio Return Channel switch.
  - **ON:** Enables ARC function, allowing audio from your ARC-compatible TV (connected to the HDMI OUT port) will be sent back to the extractor and output through its 3.5mm and SPDIF ports. This allows you to use your TV's built-in apps or tuner and output the audio to an external sound system.

- **OFF:** Disables the ARC function.
- **3.5mm L/R Audio Output:** Stereo analog audio output. Connect to headphones or stereo speakers.
- **SPDIF:** Optical digital audio output. Connect to an amplifier or soundbar.
- **HDMI OUTPUT (Support ARC):** HDMI output port. Connect to your display device (e.g., HDTV, monitor, projector). This port supports ARC when enabled.

## SETUP AND INSTALLATION

Follow these steps to connect your HDMI Audio Extractor Splitter:

### General Connection Steps:

1. **Power Up:** Connect the provided 5V DC power adapter to the "DC 5V" (Model 1) or "MICRO 5V" (Model 2) port on the extractor. Plug the adapter into a power outlet. The PWR LED should illuminate.
2. **Connect HDMI Input:** Link your HDMI source device (e.g., Blu-ray player, PS5, Fire TV, laptop) to the "HDMI IN" port on the extractor using an HDMI cable.
3. **Connect HDMI Output:** Connect the "HDMI OUT" port of the extractor to your display device (e.g., HDTV, monitor, projector) using an HDMI cable.
4. **Connect Audio Output:**
  - For digital audio (multi-channel or stereo): Connect the "SPDIF" optical output to your amplifier or soundbar using an optical cable.
  - For analog stereo audio: Connect the "L/R" RCA outputs (Model 1) or "3.5mm L/R Audio Output" (Model 2) to your stereo amplifier, speakers, or headphones.



Figure 1: Typical connection diagram for Model 1, illustrating input from various sources and output to display and audio systems.



Figure 2: Typical connection diagram for Model 2, showing diverse input and output options including ARC support.

### Important Notes for Setup:

- Ensure all cables are securely connected before powering on devices.
- Use high-quality HDMI cables (preferably HDMI 2.0 or higher for 4K@60Hz) to ensure optimal performance.
- **For Model 1:** The HDMI output port is for video to a display only and does not support connecting directly to an audio device for audio extraction. Audio is extracted via SPDIF or L/R RCA ports.
- **For Model 2 (ARC Function):** When using the ARC function, ensure your TV's HDMI port also supports ARC and is enabled in your TV settings. Do not plug an HD TV into the HDMI input of the converter when using ARC; the TV should be connected to the HDMI OUTPUT port.

# Audio extract function

**Note:** Do not need hook up a TV, you can also extract the audio from HDMI input source.

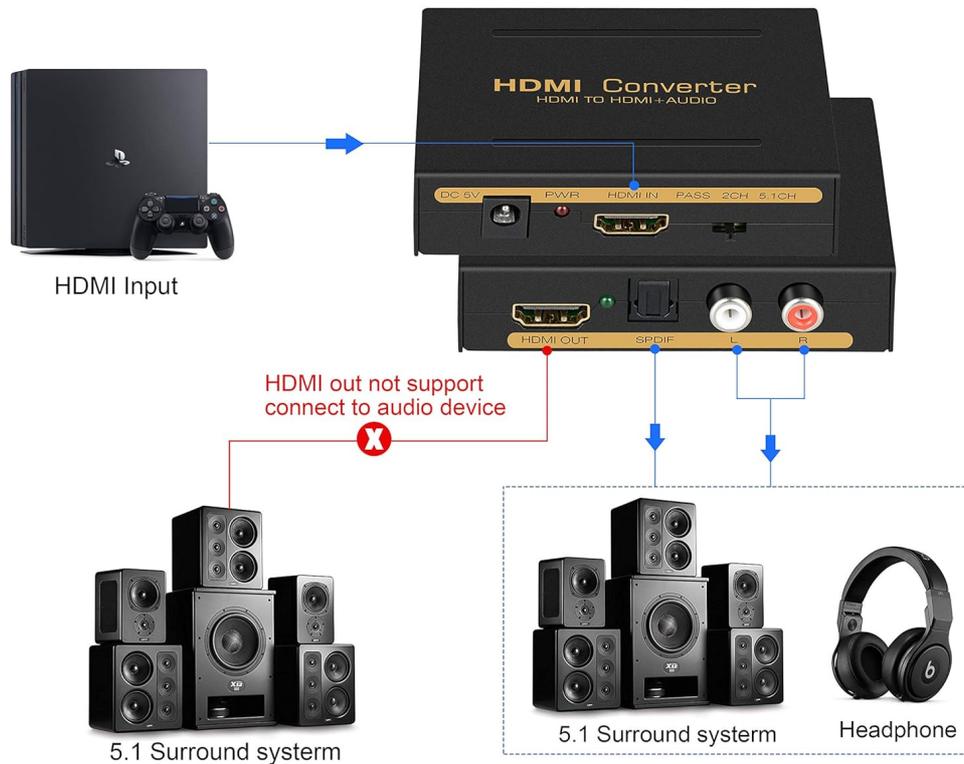


Figure 3: Audio extraction setup for Model 1, emphasizing that audio is extracted from dedicated audio output ports, not the HDMI output.

**Please don't plug HD TV to HDMI input of converter!**

This converter support HDMI ARC!



Audio separation function  
Three kinds of optional audio mode



**Audio and video synchronically output and separately extract audio to enjoy the visual impact. Gold plating design ensures better transmission performance**



## OPERATING INSTRUCTIONS

### Audio Mode Selection:

Both models feature a switch to select the desired audio output mode. Adjust this switch according to your audio system's capabilities and your preference.

#### For Model 1 (PASS/2CH/5.1CH Switch):

- **PASS Mode:** In this mode, the audio format output via SPDIF and L/R will be determined by the EDID of the connected display (TV). This is useful if your display can handle various audio formats and you want the extractor to match.
- **2CH Mode:** Forces the audio output to 2-channel LPCM stereo. This is ideal for connecting to stereo amplifiers, headphones, or speakers that only support 2-channel audio. Both SPDIF and L/R outputs will provide 2CH LPCM.
- **5.1CH Mode:** This mode is designed for multi-channel audio systems. The SPDIF output will attempt to output 5.1CH audio formats such as Dolby Digital, Dolby True HD, DTS-HD, and DTS, provided the source and your audio receiver support these formats. The L/R RCA outputs will still provide 2CH PCM stereo.



Figure 5: The 4K@60Hz HDMI 2.0b Audio Extractor Splitter Converter, showing its compact form factor and the audio mode switch.

#### For Model 2 (TV/2.0/5.1 Switch and ARC ON/OFF Switch):

- **TV Mode:** Audio format is determined by the connected TV's EDID.
- **2.0CH Mode:** Outputs 2-channel stereo audio via 3.5mm and SPDIF.
- **5.1CH Mode:** Outputs 5.1-channel audio via SPDIF (if supported by source and receiver).
- **ARC ON/OFF:**
  - **ON:** When enabled, audio from your ARC-compatible TV (connected to the HDMI OUT port) will be sent back to the extractor and output through its 3.5mm and SPDIF ports. This allows you to use your TV's built-in apps or tuner and output the audio to an external sound system.
  - **OFF:** Disables the ARC function.

## Video Playback:

Once connected, ensure your display is set to the correct HDMI input. The extractor will pass through the video signal from your source device to the display. Both models support resolutions up to 4Kx2K@60Hz, HDR 10, and HDCP 2.2, providing a high-quality visual experience.

## 4K HD Picture Makes More Realistic

Via optical/RCA L/R port add external speakers, amplifiers, soundbars to your film/game system with ease



Figure 6: Example setup demonstrating 4K video passthrough and audio extraction to external speakers.

## OFFICIAL PRODUCT VIDEOS

Watch these official videos for a visual guide on connecting and using your avedio links HDMI Audio Extractor.

### How simple is it to connect and use an HDMI audio extractor?

Your browser does not support the video tag.

This video demonstrates the straightforward process of connecting and operating the avedio links HDMI audio extractor, showcasing its ease of use in a home theater setup.

## avedio links 4K HDMI Audio Extractor Converter

Your browser does not support the video tag.

An overview video of the avedio links 4K HDMI Audio Extractor Converter, highlighting its features and typical applications for audio separation.

### TROUBLESHOOTING

If you encounter issues, please refer to the following common problems and solutions:

- **No Audio Output:**

- Ensure the power adapter is connected and the PWR LED is on.
- Verify all HDMI and audio cables are securely connected.
- Check the audio mode switch (PASS/2CH/5.1CH or TV/2.0/5.1) on the extractor. Try different settings to match your audio receiver's capabilities.
- Confirm your audio receiver/soundbar is set to the correct input source.
- If using 5.1CH mode, ensure your source device is outputting 5.1 audio and your receiver supports the specific format (e.g., Dolby Digital, DTS). If not, switch to 2CH mode.
- If using ARC (Model 2), ensure ARC is enabled on both the extractor and your TV, and the TV is connected to the HDMI OUT port.

- **No Video Output:**

- Ensure the power adapter is connected and the PWR LED is on.
- Verify all HDMI cables are securely connected.
- Try a different HDMI cable.
- Ensure your display is set to the correct HDMI input.
- Test the HDMI source device directly with the display to rule out issues with the source or display.

- **Intermittent Audio/Video:**

- Check for loose cable connections.
- Ensure the power supply is stable.
- Try using shorter, higher-quality HDMI cables, especially for 4K resolutions.

- **Audio Quality Issues (e.g., static, distortion):**

- Ensure audio cables are not damaged and are properly connected.
- Check the audio mode switch. Incorrect settings can lead to compatibility issues.
- Reduce the volume on the source device or receiver to prevent clipping.

### SPECIFICATIONS

Feature	Description
Brand	avedio links
Model	4K HDMI Audio Extractor Splitter (B095PDJH2J)

Feature	Description
<b>HDMI Version</b>	HDMI 2.0b (for 4K@60Hz model), HDMI 1.4 (for 4K@30Hz model)
<b>Max Resolution</b>	Up to 4Kx2K@60Hz (for 4K@60Hz model), 4Kx2K@30Hz (for 4K@30Hz model)
<b>HDR Support</b>	HDR 10 (for 4K@60Hz model)
<b>HDCP Version</b>	HDCP 2.2 (for 4K@60Hz model)
<b>Color Space</b>	RGB 8:8:8 (for 4K@60Hz model)
<b>Max Bandwidth</b>	18 Gbps (for 4K@60Hz model)
<b>Audio Output Modes</b>	PASS/TV, 2.0CH, 5.1CH
<b>Audio Output Interfaces</b>	Optical SPDIF, 3.5mm Stereo (Model 2), L/R RCA (Model 1)
<b>ARC Support</b>	Yes (Model 2 only)
<b>Power Supply</b>	DC 5V
<b>Compatible Devices</b>	Blu-ray/DVD/HD player, cable/satellite box, Amazon Fire TV, PS3/PS4/PS5, Xbox, PC/laptop (Input); HDTV, Monitor, Projector (HDMI Output); Speaker, Amplifier, Soundbar (Audio Output)

## MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the device. Do not use liquid cleaners or aerosols.
- **Storage:** Store the device in a cool, dry place away from direct sunlight and extreme temperatures.
- **Handling:** Avoid dropping or subjecting the device to strong impacts.
- **Ventilation:** Ensure adequate ventilation around the device to prevent overheating.

## WARRANTY AND SUPPORT

avedio links products are designed for reliability and performance. For warranty information, technical support, or customer service inquiries, please refer to the contact information provided with your purchase or visit the official avedio links website.

Please retain your proof of purchase for warranty claims.

