

## VEDINDUST SW2121314

# VEDINDUST HDMI Audio Extractor User Manual

Model: SW2121314

## INTRODUCTION

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The VEDINDUST HDMI Audio Extractor is designed to separate audio from an HDMI signal, allowing it to be outputted to various audio devices via optical, coaxial, L/R stereo, or 3.5mm auxiliary connections. This device supports 4K@60Hz video passthrough and advanced EDID management for flexible audio and video configurations.

## PRODUCT FEATURES

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- **HDMI Audio Extraction:** Extracts audio from an HDMI source to optical, coaxial, L/R stereo, or 3.5mm auxiliary outputs.
- **EDID Management:** Features 8 working modes for easy configuration via a red DIP switch, allowing automatic EDID comparison or fixed EDID settings to ensure compatibility.
- **4K Ultra HD Support:** Compatible with HDMI 1.4V, supporting up to 10.2G bandwidth, HDCP1.4, 4K@60Hz (YUV4:2:0), and 4K@30Hz RGB/YUV4:4:4.
- **Audio Format Support:** Optical and coaxial outputs support Dolby DTS 5.1. The 3.5mm and L/R outputs support PCM2.0.
- **Low Power Consumption:** Often operates without external power when connected to most source devices. A USB 5V power connection is available for devices requiring additional power.
- **Wide Compatibility:** Suitable for various HDMI source devices such as Roku, Fire TV, Blu-ray/DVD/HD players, cable/satellite boxes, PS4, PS5, Xbox, and PCs/laptops.

**Note:** This device does not support ARC (Audio Return Channel) or eARC. A TV is not supported as an input source. 4K HDR and 7.1 channel audio are not supported. Some devices like PS4/PS5 may only support up to 1080p through this extractor.

## SETUP INSTRUCTIONS

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### Package Contents

- HDMI Audio Extractor Unit

- Micro USB Power Cable
- User Manual (this document)

## Connection Diagram



Figure 1: Overview of the HDMI Audio Extractor connection setup. An HDMI source (e.g., PS5) connects to the HDMI IN port. The HDMI OUT port connects to a monitor or TV. Audio outputs (Optical, Coaxial, L/R, 3.5mm AUX) connect to external audio devices like soundbars, power amplifiers, stereo speakers, or headphones. A USB 5V power connection is also shown.

## Step-by-Step Connection

1. **Connect HDMI Source:** Use an HDMI cable to connect your HDMI source device (e.g., PS5, Blu-ray player, Roku) to the **HDMI IN** port on the extractor.
2. **Connect HDMI Display:** Use another HDMI cable to connect your HDMI display (e.g., TV, monitor, projector) to the **HDMI OUT** port on the extractor.
3. **Connect Audio Output:** Choose your desired audio output and connect it to your audio receiver, soundbar, speakers, or headphones:
  - For 5.1 channel audio (Dolby DTS 5.1), connect an optical cable to the **Optical** port or a coaxial cable to the **Coaxial** port.

- For 2.0 channel stereo audio (PCM2.0), connect RCA cables to the **L/R** ports or a 3.5mm audio cable to the **AUX** port.

4. **Connect Power:** Connect the provided Micro USB power cable to the **USB 5V** port on the extractor. Connect the other end to a USB power source (e.g., a USB port on your TV, a USB wall adapter, or a power bank). While many source devices provide sufficient power, external power may be required for stable operation.

## EDID resolution Management mode

### 1. Copy display device resolution to HDMI Output.



### 2. Fixed 4K or 1080p resolution to HDMI Output.



Figure 2: Compatibility information. The extractor supports HDMI source devices like PS4/5, Xbox, Roku, and PC. It does not support TVs as input sources, nor does it support ARC/eARC functionality.

## OPERATING INSTRUCTIONS

### EDID Management

The HDMI Audio Extractor features an EDID (Extended Display Identification Data) management switch, allowing you to configure the audio and video output behavior. Use the red DIP switch on the unit to select one of the 8 available modes.

# EDID Management

Internal library with 8 internal EDID handshakes for customer requirements









	Resolution	AUX & L/R	Optical & Coaxial	HDMI Audio
	Copy display resolution from HDMI output	2CH PCM	2CH PCM	2CH PCM
	Copy display resolution from HDMI output	🔊X	<b>DOLBY DTS 5.1CH</b>	<b>DOLBY DTS 5.1CH</b>
	Copy display resolution from HDMI output	2CH PCM	2CH PCM	🔊X
	Copy display resolution from HDMI output	🔊X	<b>DOLBY DTS 5.1CH</b>	🔊X
	<b>4K</b> Fixed resolution	2CH PCM	2CH PCM	🔊X
	<b>4K</b> Fixed resolution	🔊X	<b>DOLBY DTS 5.1CH</b>	🔊X
	<b>1080P</b> Fixed resolution	2CH PCM	2CH PCM	🔊X
	<b>1080P</b> Fixed resolution	🔊X	<b>DOLBY DTS 5.1CH</b>	🔊X

Figure 3: EDID Management Table. This table illustrates the 8 different EDID modes, showing how the DIP switch settings (1, 2, 3) correspond to resolution (copy from HDMI output, fixed 4K, fixed 1080P) and audio output formats (2CH PCM, Dolby DTS 5.1CH, or no audio) for AUX & L/R, Optical & Coaxial, and HDMI Audio.

Each switch position (1, 2, 3) can be set to ON or OFF to achieve different configurations. Refer to the table above to select the appropriate mode for your setup. For example:

- To copy display resolution and output 2CH PCM audio on all outputs, set switches to a specific configuration (e.g., 1-OFF, 2-OFF, 3-OFF).
- To force 4K resolution and output Dolby DTS 5.1CH on Optical/Coaxial, set switches accordingly.

## Audio Sync and TV Mute Functionality



Figure 4: Operational features. The top left shows 'Audio Sync' for 2-channel mode with audio output. The top right illustrates 'HDMI Out TV Mute' where audio is extracted to external speakers, muting the TV's sound. The bottom left highlights the 'Metal shell' for effective heat dissipation. The bottom right indicates 'Low power' consumption, often requiring no external power supply.

- **Audio Sync:** In 2-channel mode, the device ensures synchronized audio output across all enabled audio ports (AUX, L/R, Coaxial, Optical, HDMI).
- **HDMI Out TV Mute:** When audio is extracted to external speakers via the extractor's audio outputs, the HDMI output to the TV can be configured to mute its audio, preventing duplicate sound. This is managed through the EDID settings.

## MAINTENANCE

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

- **Cleaning:** Use a soft, dry cloth to clean the unit. Avoid using liquid cleaners or abrasive materials, which can damage the surface or internal components.
- **Environment:** Keep the device in a dry, well-ventilated area. Avoid exposure to extreme temperatures, direct sunlight, or high humidity.

- **Heat Dissipation:** The metal shell of the extractor is designed for effective heat dissipation. Ensure that the ventilation slots are not blocked to allow proper airflow.
- **Cable Care:** Handle HDMI and audio cables carefully. Avoid bending them sharply or placing heavy objects on them, which can cause damage.

## TROUBLESHOOTING

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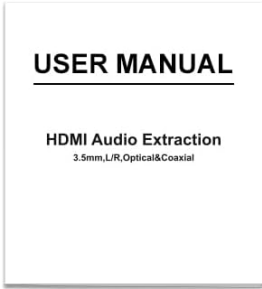
If you encounter issues with your HDMI Audio Extractor, please refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No Audio Output	<ul style="list-style-type: none"> <li>• Incorrect audio format on source device.</li> <li>• Loose audio cable connection.</li> <li>• Insufficient power supply.</li> <li>• Incorrect EDID setting.</li> </ul>	<ul style="list-style-type: none"> <li>• Set the audio output format of your source device (e.g., PS4/PS5, Blu-ray player) to <b>PCM format</b>.</li> <li>• Ensure all audio cables (Optical, Coaxial, L/R, 3.5mm AUX) are securely connected.</li> <li>• Connect the Micro USB power cable to a reliable 5V USB power source.</li> <li>• Adjust the EDID switch to a mode that enables audio output for your chosen format.</li> </ul>
No Video Output	<ul style="list-style-type: none"> <li>• Loose HDMI cable connection.</li> <li>• Incorrect EDID setting.</li> <li>• Incompatible resolution.</li> </ul>	<ul style="list-style-type: none"> <li>• Ensure both HDMI IN and HDMI OUT cables are securely connected.</li> <li>• Adjust the EDID switch to a mode that matches your display's capabilities (e.g., copy display resolution, fixed 1080P).</li> <li>• Try a different HDMI cable.</li> </ul>
Intermittent Audio/Video	<ul style="list-style-type: none"> <li>• Unstable power supply.</li> <li>• Faulty cables.</li> </ul>	<ul style="list-style-type: none"> <li>• Ensure the device is receiving stable 5V power. Use a dedicated USB wall adapter if necessary.</li> <li>• Replace HDMI or audio cables if they appear damaged or are old.</li> </ul>
No 5.1 Channel Audio	<ul style="list-style-type: none"> <li>• Source device not outputting 5.1.</li> <li>• Incorrect EDID setting.</li> <li>• Using L/R or 3.5mm AUX output.</li> </ul>	<ul style="list-style-type: none"> <li>• Ensure your source device is configured to output Dolby Digital or DTS 5.1.</li> <li>• Set the EDID switch to a mode that supports Dolby DTS 5.1CH output via Optical or Coaxial.</li> <li>• Note that L/R and 3.5mm AUX outputs only support PCM2.0 stereo.</li> </ul>

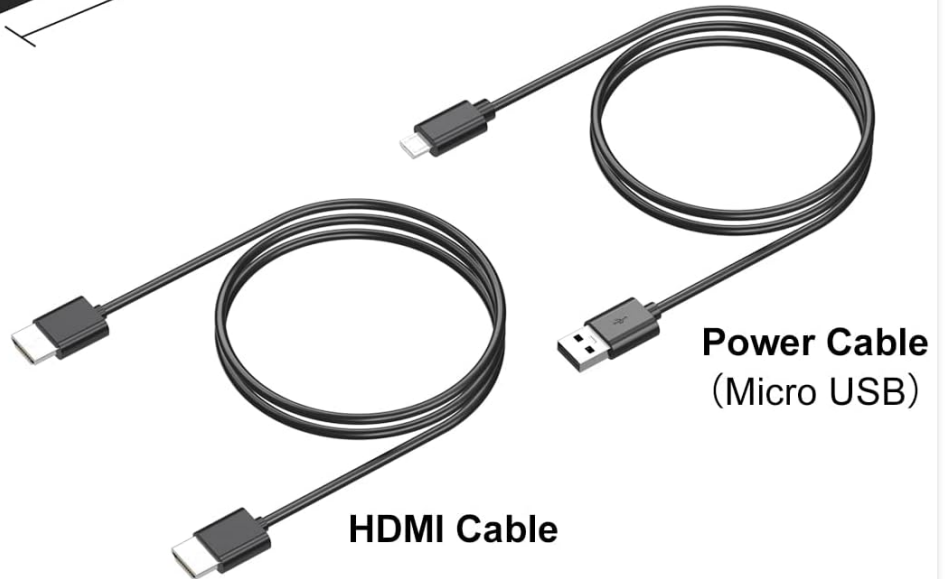
## SPECIFICATIONS

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# HDMI Audio Extractor



**User manual**



**Power Cable (Micro USB)**

**HDMI Cable**

Figure 5: Product dimensions (90mm x 54mm x 21mm) and included accessories (Micro USB Power Cable, HDMI Cable, User Manual).

Feature	Detail
Model Number	SW2121314
Manufacturer	VEDINDUST
HDMI Version	HDMI 1.4V
HDCP Version	HDCP 1.4
Max Bandwidth	10.2 Gbps
Supported Resolutions	4K@60Hz (YUV4:2:0), 4K@30Hz (RGB/YUV4:4:4), 1080p, 720p, etc.
Audio Output Ports	Optical (Toslink), Coaxial, L/R RCA, 3.5mm AUX

Feature	Detail
Supported Audio Formats	Optical/Coaxial: Dolby Digital 5.1, DTS 5.1 L/R, 3.5mm AUX: PCM 2.0 Stereo
Power Supply	Micro USB 5V (Min 5 Volts DC, Max 5 Volts)
Operating Temperature	Up to 45 Degrees Celsius
Weight	70 Grams
Dimensions (L x W x H)	90mm x 54mm x 21mm (approximate, based on image)
Number of Pins	21 (HDMI connector)
Compatible Devices	Projectors, Televisions (as display), various HDMI sources

## WARRANTY AND SUPPORT

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### Warranty Information

This product is covered by a **one-year replacement warranty** from the date of purchase. During this period, if the product experiences any manufacturing defects or malfunctions, it will be replaced. Please note that this warranty covers replacement only and does not include repair services.

### Technical Support

Should you have any questions or require technical assistance during the use of this equipment, please contact our technical support team. We are committed to providing technical support within 12 hours of your inquiry. For support, please refer to the contact information provided with your purchase or on the VEDINDUST official website.