OREI HDA-912

OREI HDA-912 4K 60Hz HDMI 2.0 Audio Extractor: User Manual

Model: HDA-912

Introduction

The OREI HDA-912 is a compact HDMI 2.0 audio extractor designed to separate audio signals from an HDMI source. It allows users to output audio through optical (SPDIF) or 3.5mm stereo ports while passing the video signal to a display. This device supports 4K@60Hz video, HDCP 2.2, HDR, Dolby Vision, and various audio formats, making it suitable for integrating modern AV equipment with diverse audio systems.

Package Contents

Verify that all items are present in the package:

- 1 x OREI HDA-912 HDMI Audio Extractor
- 1 x 5V DC Power Adapter
- 1 x User Manual

Product Overview

The HDA-912 features a durable metal enclosure designed to minimize interference and ensure signal integrity. Below are the key components and their functions:

Figure 1: Front and back view of the OREI HDA-912 HDMI Audio Extractor, showing the HDMI input, power port, audio selection switch, HDMI output, L/R audio output, and optical audio output.

Figure 2: Close-up of the front panel of the OREI HDA-912, highlighting the DC 5V Power input, Bitstream/TV/2CH audio selection switch, HDMI In port, and Link LED indicator.

Front Panel

- **DC 5V Power:** Connect the included 5V DC power adapter here.
- **Power LED:** Illuminates when the device is powered on.
- **Audio Selection Switch (Bitstream/TV/2CH):** Selects the desired audio output mode.
  - **Bitstream:** For multi-channel audio formats (Dolby Digital, DTS, etc.) to a compatible receiver.
  - **TV:** Passes audio directly from the HDMI source to the HDMI output.
  - **2CH:** Outputs 2-channel stereo audio (LPCM 2CH) via optical and L/R outputs.
- **HDMI In:** Connect your HDMI source device (e.g., Blu-ray player, game console, streaming device) here.
- **Link LED:** Illuminates when a valid HDMI input signal is detected.

Rear Panel

- **HDMI Out:** Connect this port to your display device (e.g., TV, monitor, projector). This port passes through the video signal from the HDMI In.
- **L/R Out:** 3.5mm stereo audio output for connecting to analog audio systems or headphones.
- **Optical Out:** SPDIF optical audio output for connecting to digital audio receivers or soundbars.

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Video 1: An overview of the OREI HDA-912 4K Audio Extractor, detailing its features and ports. This video provides a visual guide to the device's physical aspects and basic functionality.

Setup Instructions

Follow these steps to set up your OREI HDA-912 HDMI Audio Extractor:

1. **Connect HDMI Source:** Connect an HDMI cable from your source device (e.g., Blu-ray player, game console, PC) to the **HDMI In** port on the HDA-912.
2. **Connect Display:** Connect another HDMI cable from the **HDMI Out** port on the HDA-912 to the HDMI input of your display (TV, monitor, projector).
3. **Connect Audio Output:** Choose your preferred audio output:
   - For digital audio, connect an optical cable from the **Optical Out** port on the HDA-912 to your audio receiver or soundbar.
   - For analog stereo audio, connect a 3.5mm audio cable from the **L/R Out** port on the HDA-912 to your analog audio system or headphones.
4. **Connect Power:** Plug the included 5V DC power adapter into the **DC 5V Power** port on the HDA-912, then plug the adapter into a power outlet. The Power LED will illuminate.
5. **Select Audio Mode:** Use the **Audio Selection Switch** on the front panel to choose the appropriate audio mode (Bitstream, TV, or 2CH) based on your audio system's capabilities and desired output.

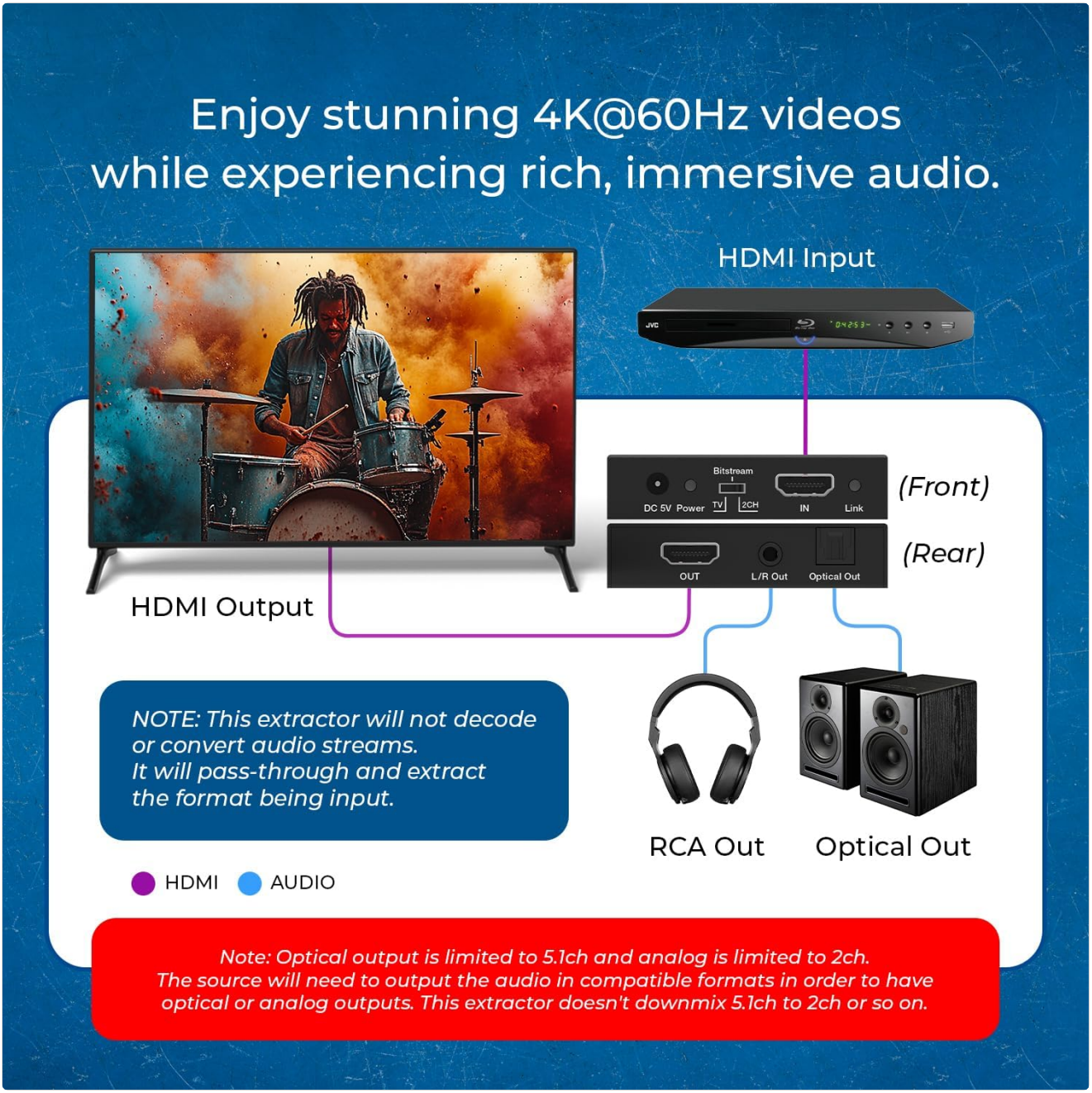

Figure 3: A diagram illustrating the typical connection setup for the OREI HDA-912, showing an HDMI input source connected to the extractor, which then connects to an HDMI display and separate audio outputs (RCA Out and Optical Out).

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Video 2: A demonstration on how to connect and use the OREI HDA-912 4K HDMI Audio Extractor with various devices. This video guides users through the physical setup process.

Operating Instructions

Once all connections are made and the device is powered on, ensure your HDMI source is active. The **Link LED** on the HDA-912 will illuminate, indicating a successful HDMI signal detection. Select the appropriate input on your display and audio system.

Audio Mode Selection

The **Audio Selection Switch** allows you to control how audio is processed:

- **Bitstream:** Use this mode when your audio receiver or soundbar supports multi-channel audio formats like Dolby Digital, DTS, Dolby Digital+, Dolby TrueHD, DTS-HD Master Audio, Dolby Atmos, or DTS:X. The HDA-

912 will pass these formats directly to the optical output.

- **TV:** In this mode, the audio signal is passed through the HDMI output to your TV. The optical and L/R outputs will typically mirror the audio capabilities of the connected TV.
- **2CH:** Select this mode to output 2-channel stereo audio (LPCM 2CH) via both the optical and L/R outputs. This is ideal for stereo sound systems or headphones.

Note: Optical output is limited to 5.1CH and analog (L/R) output is limited to 2CH. The source device must output audio in compatible formats for optical or analog outputs. This extractor does not downmix 5.1CH to 2CH.

SPECIFICATIONS

Figure 4: The OREI HDA-912 HDMI Audio Extractor with its compact dimensions (2.5" x 3" x 0.8") and weight (7.3 oz) highlighted.

Feature	Description
Model	HDA-912
HDMI Version	HDMI 2.0b

HDCP Compliance	HDCP 2.2
Video Bandwidth	18Gbps
Supported Resolutions	Up to 4K@60Hz (YUV4:4:4)
HDR Support	10-bit HDR pass-through (HDR10, Dolby Vision)
CEC Support	CEC Bypass
HDMI Audio Formats (Pass-through)	LPCM 2/5.1/7.1CH, Dolby Digital, DTS 5.1, Dolby Digital+, Dolby TrueHD, DTS-HD Master Audio, Dolby Atmos, DTS:X
Optical Audio Formats	LPCM 2CH, LPCM 5.1, Dolby Digital 2/5.1 CH, DTS 2/5.1 CH
L/R Audio Formats	Analog Stereo 2CH
Audio Sampling Rate	Up to 192kHz
Material	Metal
Product Dimensions	2.9"L x 2.4"W x 0.8"H (approx.)
Item Weight	8 ounces
Power Supply	DC 5V

TROUBLESHOOTING

If you encounter issues with your HDA-912, please refer to the following common solutions:

- **No Video Output:**
  - Ensure all HDMI cables are securely connected.
  - Verify the power adapter is connected and the Power LED is on.
  - Check if the Link LED is illuminated, indicating a valid HDMI input signal.
  - Try using different HDMI cables.
  - Ensure your display is set to the correct HDMI input.
- **No Audio Output:**
  - Verify all audio cables (optical or 3.5mm) are securely connected.
  - Check the **Audio Selection Switch** setting. Ensure it matches your audio system's capabilities (e.g., Bitstream for multi-channel, 2CH for stereo).
  - Confirm your audio receiver/soundbar is powered on and set to the correct input.
  - Ensure the source device is outputting audio in a format compatible with the selected audio mode.
  - Adjust the volume on your audio system.
- **Intermittent Video/Audio:**
  - Check for loose cable connections.
  - Ensure the power supply is stable.
  - Try reducing the cable lengths if they are very long.
  - Power cycle all connected devices (source, HDA-912, display, audio system).

Maintenance

To ensure the longevity and optimal performance of your OREI HDA-912, follow these maintenance guidelines:

- Keep the device in a cool, dry place, away from direct sunlight, heat sources, and moisture.
- Clean the device with a soft, dry cloth. Do not use liquid or aerosol cleaners.
- Avoid placing heavy objects on top of the device.
- Do not attempt to open or service the device yourself. Refer to qualified personnel for repairs.

Warranty and Support

The OREI HDA-912 comes with a 12-month manufacturer's warranty. OREI also provides lifetime technical support for its products.
For technical assistance or warranty claims, please contact OREI support through their official website or the contact information provided in your product packaging. You can also visit the OREI Store on Amazon for more information and support resources.