

OREI UHDS-104A

OREI UHDS-104A 1x4 HDMI 2.0 Splitter with Scaler and Audio Extractor User Manual

Model: UHDS-104A | Brand: OREI

1. INTRODUCTION

The OREI UHDS-104A is a 1x4 HDMI 2.0 Splitter designed to distribute a single HDMI input signal to four identical HDMI output signals. This device supports resolutions up to 4K x 2K at 60Hz and includes a built-in scaler to match resolutions across different displays. It also features an audio extractor, providing both analog and optical audio outputs. The UHDS-104A is compliant with HDMI 2.0b and HDCP 2.2 standards, ensuring compatibility with a wide range of modern media devices.



Figure 1: OREI UHDS-104A 1x4 HDMI Splitter with Scaler and Audio Extractor.

2. PACKAGE CONTENTS

Verify that all items are present in the package:

- 1 x OREI UHDS-104A 1x4 HDMI 2.0 Splitter
- 1 x DC 5V Power Adapter (100-240V, US Plug)
- 1 x User Manual

Note: HDMI cables are not included and must be purchased separately.



Figure 2: Visual representation of the OREI UHDS-104A package contents, including the splitter, power adapter, and user manual.

3. PRODUCT OVERVIEW

Front Panel

- **POWER LED:** Illuminates when the device is powered on.
- **IN LED:** Illuminates when an active HDMI input signal is detected.
- **OUT 1-4 LEDs:** Illuminate when an active HDMI output connection is established for each respective port.
- **SERVICE Port:** Micro USB port for firmware updates.
- **EDID Switch:** Allows selection of EDID modes (AUTO, COPY, 5.1CH, 7.1CH) to optimize compatibility between source and displays.
- **4K->1080P Switches (1-4):** Individual switches for each output to enable or disable 4K to 1080P downscaling.

Rear Panel

- **HDMI OUT 1-4:** HDMI 2.0 output ports for connecting to displays.
- **OPTICAL OUT:** Optical audio output (SPDIF) for connecting to audio receivers or soundbars.
- **L/R OUT:** 3.5mm analog stereo audio output for connecting to external amplifiers or speakers.
- **HDMI IN:** HDMI 2.0 input port for connecting to the source device.
- **DC 5V:** Power input port for the included 5V DC power adapter.



Figure 3: Front panel view of the OREI UHDS-104A, highlighting LED indicators and control switches.



Figure 4: Rear panel view of the OREI UHDS-104A, showing HDMI input/output, audio outputs, and power input.

4. SETUP INSTRUCTIONS

Follow these steps to set up your OREI UHDS-104A HDMI Splitter:

1. **Connect HDMI Source:** Connect your HDMI source device (e.g., Blu-ray player, game console, PC) to the **HDMI IN** port on the splitter using a high-quality HDMI cable (recommended 30 feet or shorter).
2. **Connect HDMI Displays:** Connect up to four HDMI displays (e.g., TVs, monitors, projectors) to the **HDMI OUT 1-4** ports on the splitter using high-quality HDMI cables.
3. **Connect Audio Output (Optional):** If you wish to extract audio, connect your audio receiver or soundbar to either the **OPTICAL OUT** port (for digital audio) or the **L/R OUT** port (for analog stereo audio).
4. **Connect Power:** Plug the included 5V DC power adapter into the **DC 5V** port on the splitter, then plug the adapter into a power outlet. The **POWER** LED on the front panel will illuminate.
5. **Power On Devices:** Power on your HDMI source device and all connected displays.



Figure 5: Diagram illustrating the typical connection setup for the OREI UHDS-104A, showing source, splitter, displays, and audio output.

Your browser does not support the video tag.

Video 1: An official OREI video demonstrating the mirroring functionality of the 4K HDMI Splitter, showing one input duplicated across multiple displays.

5. OPERATING INSTRUCTIONS

EDID Control

The EDID (Extended Display Identification Data) switch on the front panel allows you to manage the communication between the source and displays for optimal compatibility. Adjust the switch based on your setup requirements:

- **AUTO:** The splitter automatically detects the best EDID settings from the connected displays.
- **COPY:** The splitter copies the EDID from Output 1 to all other outputs. This is useful when all displays are identical or when you want to force a specific resolution/audio format.
- **5.1CH / 7.1CH:** Forces the audio output to 5.1 channel or 7.1 channel, respectively, for compatible audio systems.

4K to 1080P Downscaling

The UHDS-104A features individual switches for each output (1-4) to enable or disable 4K to 1080P downscaling. This is particularly useful when connecting a 4K source to a mix of 4K and 1080P displays. By enabling downscaling for 1080P displays, you can ensure they receive a compatible signal while 4K displays receive the full 4K resolution.

- **ON:** Enables 4K to 1080P downscaling for the respective output.
- **OFF:** Disables 4K to 1080P downscaling for the respective output (passes through original resolution).



UHDS-104A

TECHNICAL SPECIFICATIONS



*Lifetime OREI Tech Support &
12-Month Manufacturer's Warranty*



Figure 6: Close-up of the front panel showing the EDID control switch and individual 4K to 1080P downscaling switches for each output.

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Video 2: An official OREI video providing an overview of the UHDS-104A, highlighting its features including audio extraction and scaling capabilities.

6. MAINTENANCE

To ensure optimal performance and longevity of your OREI UHDS-104A, follow these maintenance guidelines:

- Keep the device in a cool, dry, and well-ventilated area.
- Avoid exposing the device to direct sunlight, high temperatures, or humidity.
- Clean the device with a soft, dry cloth. Do not use liquid or aerosol cleaners.
- Ensure all cables are securely connected to prevent signal loss or intermittent issues.

7. TROUBLESHOOTING

If you encounter issues with your OREI UHDS-104A, refer to the following common troubleshooting steps:

- **No Picture/Signal:**

- Ensure all HDMI cables are securely connected and are of good quality (recommended 30 feet or shorter).
- Verify that the power adapter is correctly connected and the POWER LED is illuminated.
- Check the EDID switch settings. Try setting it to 'AUTO' or 'COPY' from a working display.
- If using a 4K source with 1080P displays, ensure the 4K->1080P downscaling switch is set to 'ON' for the respective outputs.
- Try connecting the HDMI source directly to a display to confirm the source and display are working correctly.

- **No Audio:**

- Ensure your audio system is correctly connected to either the OPTICAL OUT or L/R OUT ports.
- Check the audio settings on your source device to ensure it's outputting a compatible audio format.
- Adjust the EDID switch to a setting that supports the desired audio channels (e.g., 5.1CH, 7.1CH).

- **Picture Quality Issues (Flickering, Distortion):**

- Use high-quality, certified HDMI 2.0 cables.
- Reduce the cable length if possible.
- Ensure the 4K->1080P downscaling is correctly configured for your displays.

8. SPECIFICATIONS

Feature	Specification
Model Number	UHDS-104A
Product Dimensions	7.87 x 2.5 x 0.5 inches
Item Weight	12.2 ounces
Color	Black
Connector Type	HDMI
Cable Type	DVI, HDMI
Compatible Devices	Projector, Roku 4, 4K TV, Amazon Fire TV, Ultra Projector, PS4, Xbox, Apple TV, HDMI LCD, Cable box, Blu-ray player, DVD player, PC, STB
HDMI Version	HDMI 2.0 (also supports 1.4, 1.3, 1.2)
HDCP Compliance	HDCP 2.2
Max Resolution	4K x 2K @60Hz

Feature	Specification
Audio Support	LPCM, Dolby-AC3, DTS7.1, DSD/Dolby TrueHD/DTS-HD master audio
Audio Outputs	Optical (SPDIF), L/R Analog (3.5mm)

9. WARRANTY AND SUPPORT

The OREI UHDS-104A comes with a **1-Year OREI Warranty** and **Lifetime Support**. For technical assistance, troubleshooting, or warranty claims, please contact OREI customer support through their official channels.

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