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OREI HDS-104

OREI HDMI Splitter 1 in 4 Out User Manual

Model: HDS-104 | Brand: OREI

1. PRODUCT OVERVIEW

The OREI HDS-104 is a high-performance 1x4 HDMI splitter designed to distribute a single HDMI input signal to four identical HDMI output signals simultaneously. This device is ideal for applications requiring the display of one source on multiple screens, such as home entertainment systems, retail displays, or conference rooms.

Key features include:

- Splits 1 HDMI input signal into 4 identical HDMI output signals.
- Supports resolutions up to 4K/60Hz, 1080p, 720p, and more.
- Compatible with HDCP 2.2 for secure signal transmission.
- Supports various audio formats including LPCM, Dolby-AC3, DTS7.1, DSD, Dolby TrueHD, and DTS-HD master audio.
- Compact size with a plug-and-play design for easy setup.



Figure 1: OREI HDS-104 HDMI Splitter distributing a single source to four displays.

2. PACKAGE CONTENTS

Please verify that all items are present in the package:

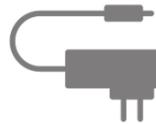
- 1x OREI 1x4 HDMI Splitter (HDS-104)
- 1x 5V DC Power Adapter
- 1x User Manual

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

PACKAGE INCLUDED:



1 HDMI 1x4 Splitter



5V AC Adapter



User Manual

(HDMI cables are not included)

Figure 2: Contents included in the OREI HDS-104 package.

3. DEVICE LAYOUT

Familiarize yourself with the ports and indicators on the OREI HDS-104 HDMI Splitter:



Figure 3: Front and Rear Panel Layout of the HDS-104.

Front Panel:

- **POWER LED:** Illuminates when the device is powered on.
- **IN LED:** Illuminates when an HDMI input signal is detected.
- **OUT 1-4 LEDs:** Illuminates when an HDMI output signal is active on the corresponding port.

Rear Panel:

- **DC 5V:** Power input port for the included 5V DC adapter.
- **HDMI IN:** Connect your HDMI source device (e.g., Blu-ray player, game console, PC).
- **HDMI OUT 1-4:** Connect your HDMI display devices (e.g., TV, monitor, projector).
- **SERVICE:** Reserved for firmware updates.
- **EDID Switch (STD/TV):** Allows for EDID management.
 - **STD (Standard):** Uses a built-in standard EDID.
 - **TV:** Copies the EDID from the display connected to HDMI OUT 1.

4. SETUP INSTRUCTIONS

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

1. Ensure all devices (source, displays, and splitter) are powered off before making connections.
2. Connect your HDMI source device (e.g., cable box, DVD player, gaming console) to the **HDMI IN** port on the splitter using a high-quality HDMI cable.
3. Connect your HDMI display devices (e.g., TVs, monitors, projectors) to the **HDMI OUT 1** through **HDMI OUT 4** ports on the splitter using high-quality HDMI cables.
4. Connect the included 5V DC power adapter to the **DC 5V** port on the splitter, then plug the adapter into a power outlet.
5. Power on the splitter. The **POWER LED** should illuminate.
6. Power on your HDMI source device and all connected display devices.
7. Verify that the **IN LED** and the corresponding **OUT LEDs** illuminate, indicating active signals.

The splitter will automatically detect the input signal and distribute it to all connected displays. The EDID switch can be adjusted if you encounter display compatibility issues.



Figure 4: Typical connection diagram for the OREI HDS-104.

5. OPERATING THE DEVICE

The OREI HDS-104 is designed for simple plug-and-play operation. Once connected and powered on, it will automatically duplicate the HDMI input signal to all four outputs.

EDID Management:

The EDID (Extended Display Identification Data) switch on the rear panel helps manage display compatibility. EDID contains information about a display's capabilities (e.g., supported resolutions, audio formats). The splitter uses this information to ensure the source sends a compatible signal.

- **STD (Standard):** In this mode, the splitter uses its internal, pre-defined EDID settings. This is often a good default for general compatibility.
- **TV:** In this mode, the splitter reads the EDID from the display connected to HDMI OUT 1. This is useful if you have a specific display with unique requirements or if you encounter compatibility issues with the STD mode. Ensure the primary display (connected to OUT 1) is powered on when setting this mode.

Supported Resolutions and Audio:

The splitter supports a wide range of video resolutions and audio formats:

- **Video:** Up to 4K@60Hz, 1080p, 1080i, 720p, 576p, 576i, 480p, 480i. Supports 3D.
- **Audio:** LPCM, Dolby-AC3, DTS7.1, DSD, Dolby TrueHD, DTS-HD master audio.

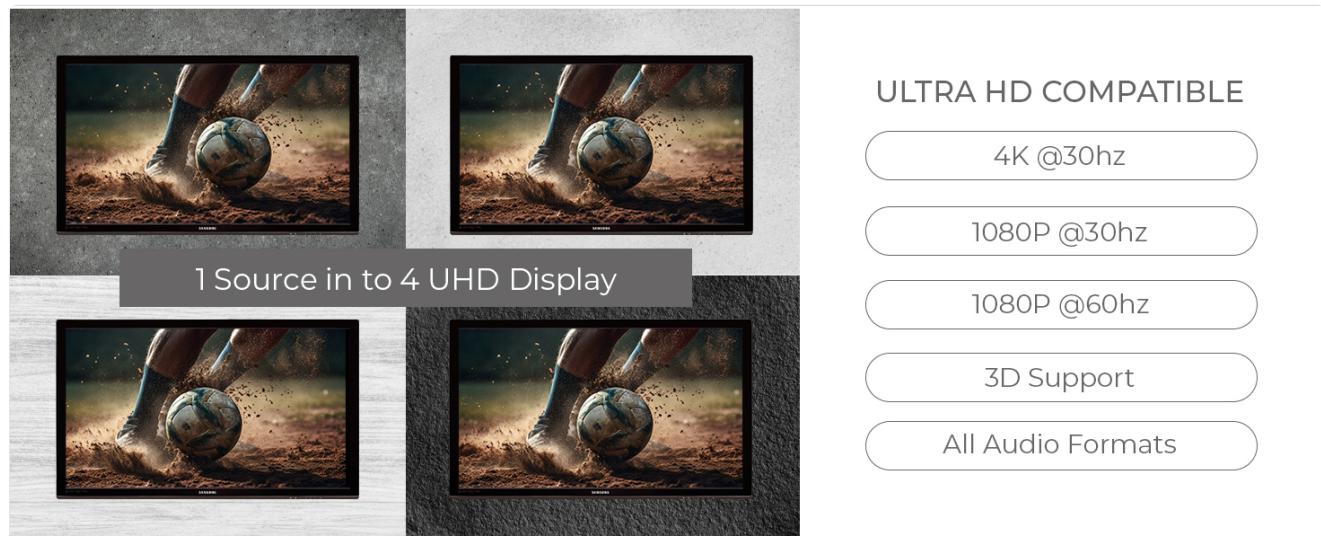


Figure 5: Supported resolutions and audio formats.

Important Considerations:

- This splitter is designed for **mirroring** (duplicating) the same image across all four displays. It does not extend the desktop across multiple monitors.
- This device does not extract audio from the HDMI signal. Audio is passed through to the connected displays.



Figure 6: Limitations: No monitor extension, no audio extraction.

6. MAINTENANCE

To ensure the longevity and optimal performance of your OREI HDS-104 HDMI Splitter, please follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the device. Do not use liquid cleaners or aerosol sprays, 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.
- **Environment:** Keep the splitter away from excessive heat, humidity, dust, and direct sunlight.
- **Handling:** Handle the device with care. Avoid dropping or subjecting it to strong impacts.
- **Power:** Disconnect the power adapter from the wall outlet if the device will not be used for an extended period.

7. TROUBLESHOOTING

If you encounter issues with your OREI HDS-104 HDMI Splitter, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No picture on display(s)	<ul style="list-style-type: none"> • Loose HDMI cables. • No power to the splitter. • Incorrect input selection on display. • HDCP compatibility issue. • EDID conflict. 	<ul style="list-style-type: none"> • Ensure all HDMI cables are securely connected. • Verify the power adapter is connected and the POWER LED is on. • Select the correct HDMI input on your display(s). • Ensure all devices (source, splitter, displays) support HDCP. • Try switching the EDID mode (STD/TV) on the splitter. Power cycle devices after changing EDID.

Problem	Possible Cause	Solution
Picture flickering or unstable	<ul style="list-style-type: none"> Poor quality HDMI cables. Cable length too long. Resolution mismatch. 	<ul style="list-style-type: none"> Use certified high-speed HDMI cables. Ensure HDMI cable lengths are within recommended limits for your resolution (shorter for 4K). Adjust the source device's resolution to match the lowest common resolution supported by all displays.
No audio	<ul style="list-style-type: none"> Audio format not supported by display. Display audio settings. 	<ul style="list-style-type: none"> Ensure your display(s) support the audio format being sent by the source. Check audio settings on your display(s) and source device.
Only some outputs work	<ul style="list-style-type: none"> Faulty HDMI cable to specific display. Issue with the display itself. 	<ul style="list-style-type: none"> Swap HDMI cables to isolate the issue. Test the non-working display with another source. Ensure the primary display (connected to OUT 1) is powered on and functioning correctly if using TV EDID mode.

If the problem persists after trying these solutions, please contact OREI customer support for further assistance.

8. SPECIFICATIONS

Feature	Detail
Product Model	HDS-104
HDMI Compliance	HDMI 2.0
HDCP Compliance	HDCP 2.2
Video Resolution Support	Up to 4K@60Hz, 1080p, 720p, etc.
Audio Format Support	LPCM, Dolby-AC3, DTS7.1, DSD, Dolby TrueHD, DTS-HD master audio
Input Ports	1x HDMI Type A
Output Ports	4x HDMI Type A
Power Supply	DC 5V
Product Dimensions (L x W x H)	Approx. 6.4 x 2.4 x 0.6 inches
Item Weight	Approx. 9 oz
Color	Black



Figure 7: Physical dimensions and weight of the HDS-104.

9. WARRANTY AND SUPPORT

OREI products are designed for reliability and performance. This product comes with a **12-Month Manufacturer's Warranty** from the date of purchase, covering defects in materials and workmanship.

Additionally, OREI offers **Lifetime Technical Support** for this product. If you require assistance with setup, troubleshooting, or have any questions, please contact OREI customer support.

For support, please visit the official OREI website or refer to the contact information provided with your purchase documentation.

OVER 10 YEARS EXPERIENCE



BASED IN THE
U.S.A

WE OFFER LIFETIME LOCAL SUPPORT

Figure 8: OREI's commitment to support and warranty.

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