



UHD-PRO102

4K@60Hz 1x2 HDMI™ Splitter
(CEC, Downscaler, Audio Extract)

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USER MANUAL

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Thank you for purchasing this product

For optimum performance and safety, please read these instructions carefully before connecting, operating, or adjusting this product. Keep this manual for future reference.

Important Safety Note – Surge Protection Recommended

This product contains sensitive electronic components that may be damaged by electrical spikes, surges, lightning strikes, or static discharge. To protect and extend the service life of your equipment, we strongly recommend using a surge protection device.

Warranty Registration

Activate your warranty by registering your product at:

→ www.orei.com/register

Need Technical Support? We're Here to Help.

Our experienced Technical Support Team is available to answer your questions, offer expert advice, and help troubleshoot any issues to keep your project on track—on time and on budget.

Live Support Hours (US/Canada/Mexico):

 Monday–Friday | 9:00 a.m. – 5:00 p.m. Central Time

Contact Us:

 Email: info@orei.com

 Phone: 877-290-5530

 Chat Live: www.orei.com

Send us an instant message—our team typically responds within moments during live support hours.

Introduction

The UHD-PRO102 is a high-performance HDMI Splitter designed to split a single HDMI™ input into two synchronized HDMI™ outputs without compromising signal quality. Supporting bandwidths up to 18Gbps and resolutions up to 4K@60Hz (4:4:4, 8-bit). It delivers exceptional clarity and reliable performance for both commercial and residential installations.

Fully compliant with HDMI™ 2.0b and HDCP 2.3, the splitter ensures seamless compatibility with modern source devices such as gaming consoles, Blu-ray players, media streamers, and other media devices. The integrated 4K to 1080p auto-downscaling feature allows simultaneous connection of 4K and 1080p displays, while comprehensive HDR pass-through support maintains superior visual performance, including HDR10+, Dolby Vision and HLG.

In addition to video distribution, the unit supports advanced multi-channel audio formats including Dolby Atmos and DTS:X through HDMI, and features audio de-embedding to S/PDIF and analog L/R outputs for flexible integration with external sound systems. Configurable CEC control allows blocking or passing of CEC whenever needed. With advanced EDID management, this splitter provides a dependable solution for multimedia conference rooms, education environments, and home theater setups.

Features

1. **HDCP 2.3 Compliant** – Ensures full compatibility with modern HDMI™ sources and protected content.
2. **18Gbps High-Speed Bandwidth** – Supports data rates up to 18Gbps for stable and lossless 4K signal transmission.
3. **4K Ultra HD Video Support** – Resolutions up to 4K@60Hz (4:4:4, 8-bit) for crisp, detailed image quality.
4. **4K to 1080p Downscaling** – Automatically downscales 4K input signals to 1080p on all outputs for mixed-resolution display environments.
5. **HDR Pass-Through Support** – Compatible with HDR, HDR10, HDR10+, Dolby Vision, and HLG for enhanced brightness, contrast, and color depth.
6. **Advanced Audio Format Support** – Pass-through for LPCM 7.1CH, Dolby TrueHD, Dolby Atmos, DTS-HD Master Audio, and DTS:X through HDMI.
7. **Audio De-Embedding Function** – Extracts HDMI™ audio to S/PDIF (optical) and analog L/R (3.5mm) outputs, enabling connection to external 2.0CH or 5.1CH sound systems.
8. **Advanced EDID Management** – Optimizes source-to-display communication for stable and reliable signal compatibility.
9. **Configurable CEC Control** – Allows users to enable or disable CEC

Package Contents & Specifications

Package Contents

1.	UHD-PRO102	1 pcs
2.	Power Adapter	1 pcs
3.	User Manual	1 pcs

Technical	
HDMI™ Compliance	HDMI™ 2.0b
HDCP Compliance	HDCP 2.3/1.4
Video Bandwidth	18Gbps
Video Resolution (Input & Output)	640x480p60Hz, 800x600p60Hz, 1024x768p60Hz, 1280x1024p60Hz, 1360x768p60Hz, 1440x900p60Hz, 1440x1050p60Hz, 1600x1200p60Hz, 720x480i59.94Hz(480i59), 720x480p59.94Hz(480p59), 720x576i50Hz(576i50), 720x576p50Hz(576p50), 1280x720p50Hz(720p50), 1280x720p59.94Hz(720p59), 1280x720p60Hz(720p60), 1920x1080i50Hz(1080i50), 1920x1080i59.94Hz(1080i59), 1920x1080i60Hz(1080i60), 1920x1080p23.98Hz(1080p23), 1920x1080p24Hz(1080p24), 1920x1080p25Hz(1080p25), 1920x1080p29.97Hz(1080p29), 1920x1080p30Hz(1080p30), 1920x1080p50Hz(1080p50), 1920x1080p59.94Hz(1080p59), 1920x1080p60Hz(1080p60), 3840x2160p23.98Hz(2160p23), 3840x2160p24Hz(2160p24), 3840x2160p25Hz(2160p25), 3840x2160p29.97Hz(2160p29), 3840x2160p30Hz(2160p30), 3840x2160p50Hz(2160p50), 3840x2160p59.94Hz(2160p59), 3840x2160p60Hz(2160p60), 4096x2160p23.98Hz, 4096x2160p24Hz, 4096x2160p25Hz, 4096x2160p29.97Hz, 4096x2160p30Hz, 4096x2160p50Hz, 4096x2160p59.94Hz, 4096x2160p60Hz
Color Depth	8-bit,10-bit,12-bit

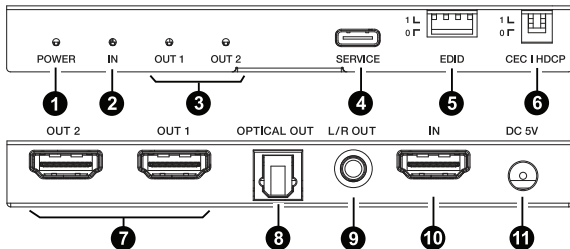
Specifications

Color Space	RGB_4:4:4, YCbCr_4:4:4, YCbCr_4:2:2, YCbCr_4:2:0
Audio Formats	LPCM, Dolby Digital/Plus/EX, Dolby True HD, Dolby Atmos, DTS, DTS-EX, DTS-96/24, DTS High Res, DTS-HD Master Audio, DTS:X, DSD
HDR	HDR, HDR10, HDR10+, Dolby Vision, HLG
ESD Protection	IEC 61000-4-2: ±8kV (Air-gap discharge) & ±4kV (Contact discharge)
Connection	
Input	1× HDMI™ [Type A, 19-pin female]
Output	2× HDMI™ [Type A, 19-pin female] 1× OPTICAL [S/PDIF] 1× L/R [3.5mm stereo audio jack]
Control	1× SERVICE [USB-C, update port]
Mechanical	
Housing	Metal Enclosure
Color	Black
Dimensions	L: 120mm/4.72in W: 62.7mm/2.47in H: 14mm/0.55in
Weight	166g / 5.86oz
Power Consumption	2.13W (Max)
Power Supply	DC 5V/1A
Operating Temperature	0°C ~ 40°C / 32°F ~ 104°F
Storage Temperature	-20°C ~ 60°C / -4°F ~ 140°F
Operating Humidity	20%-80% relative humidity, non-condensing
Storage Humidity	10%-90% relative humidity, non-condensing

Specifications

Recommended HDMI™ Cable Lengths		
Video Resolution	4K60	1080P
HDMI™ Cable Length (IN / OUT)	5m/16.4ft	10m/32.8ft
The use of "Premium High Speed HDMI™" cable is highly recommended.		

Operation Controls and Functions

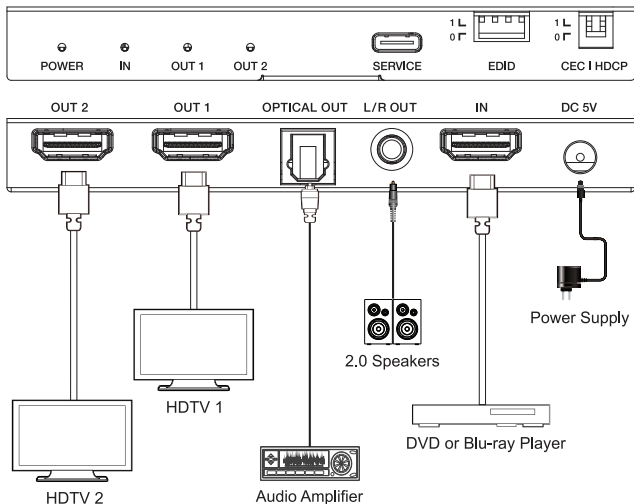


No.	Name	Function Description
1.	Power LED	The red LED will light up when the device is powered on.
2.	IN LED	The green LED will light up when the HDMI IN port connects to an active source device.
3.	OUT LED 1-2	The green LED will light up when the HDMI OUT port connects to a display device.
4.	SERVICE	USB-C port, used for firmware update.
5.	EDID dip switch	Used to set EDID settings. 1 is UP and 0 is DOWN. [DIP]=1111: 4K60(444), 2.0CH [DIP]=1110: 4K60(444), 5.1CH [DIP]=1101: 4K60(444), 7.1CH [DIP]=1100: 4K60(444)_HDR, 2.0CH [DIP]=1011: 4K60(444)_HDR, 5.1CH [DIP]=1010: 4K60(444)_HDR, 7.1CH [DIP]=1001: 4K30, 2.0CH [DIP]=1000: 4K30, 5.1CH [DIP]=0111: 4K30, 7.1CH

Operation Controls and Functions

No.	Name	Function Description
5.	EDID dip switch	(Continued) [DIP]=0110: 1080P, 2.0CH [DIP]=0101: 1080P, 5.1CH [DIP]=0100: 1080P, 7.1CH [DIP]=0011: 1920x1200, 2.0CH [DIP]=0010: 1280x800, 2.0CH [DIP]=0001: 1024x768, 2.0CH [DIP]=0000: Copy HDMI out1 EDID
6.	CEC/HDCP dial switch	Use this DIP switch to configure HDCP settings: 1 - Pass-through mode: Output HDCP follows the source. 0 - Managed mode: If the source uses HDCP, the output is set to HDCP 1.4; if the source has no HDCP, the output remains unencrypted. Use this DIP switch to configure CEC: 1 - CEC disabled: Blocks CEC communication between the source and display devices. 0 - CEC enabled: Allows CEC communication between the source and display devices.
7.	HDMI OUT 1/2	Connect a display device such as a TV, Monitor, etc.
8.	OPTICAL OUT	Connect an audio device such as soundbar, AVR, etc.
9.	L/R OUT	Connect an audio device such as headphone, soundbar, etc.
10.	HDMI IN	Connect a media source device such as DVD player, Streaming device, etc
11.	DC 5V	Connect the included power adapter.

Application Example



HDMI™
HIGH-DEFINITION MULTIMEDIA INTERFACE

The terms HDMI, HDMI High-Definition Multimedia Interface, HDMI trade dress and the HDMI Logos are trademarks or registered trademarks of HDMI Licensing Administrator, Inc.

FAQs & Troubleshooting

1. Not getting video output

- Try a lower resolution from the media source
- Try changing the HDMI cables
- Try changing the EDID setting

2. What is the maximum length of the HDMI cables supported?

We recommend using HDMI cables under 30 feet, even if they are fiber optic cables

3. Not getting audio from the Optical or 3.5mm Output

Check the audio settings on the media source. Set the output to Dolby Digital or PCM/Stereo. The Optical port supports up to Dolby Digital audio, while the 3.5mm port supports stereo audio only.

Still have some questions?

Please feel free to contact us at: info@orei.com. OR Fill out the form on the 'Contact Us' page on the website.

Our team will be more than happy to help you.

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