



8K HDMI 1x2 Splitter

USER MANUAL

BK-102A

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Thank you for purchasing this product

Thank you for purchasing this product. For optimum performance and safety, please read these instructions carefully before connecting, operating or adjusting this product. Please keep this manual for future reference.

Surge protection device recommended

This product contains sensitive electrical components that may be damaged by electrical spikes, surges, electric shock, lightning strikes, etc. Use of surge protection systems is highly recommended in order to protect and extend the service life of your equipment.

Please Activate your warranty by registering our product through the link below - www.orei.com/register

Technical Support

Need Help?

Our experienced Technical Support Team is here for you to answer your questions, give technical advice or help troubleshoot your project to get you installed on time and on budget. Call, email or chat with us now.

OREI Live Technical Support Hours

US team (US/Canada/Mexico): Monday-Friday, 9 a.m. - 6 p.m. Central Time

Support Email - info@orei.com | **Support Number** - 877-290-5530

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Introduction

This 8K HDMI 1x2 Splitter can distribute one HDMI source signal to any two display devices. It supports video resolution up to 8K@60Hz 4:2:0. It supports advanced EDID management and audio de-embedding function (output through the optical and analog port). This multi-functional product can be widely applied in scenarios of demonstration, video conference, multi-media teaching and other occasions requiring for big-screen demonstration.



1. HDMI 2.1 and HDCP 2.3 compliant
2. Support 40Gbps video bandwidth
3. Support video resolution up to 8K@60Hz 4:2:0 10bit, 8K@30Hz 4:4:4 10bit, 4K@120Hz 4:4:4 10bit
4. VRR, FVA, ALLM supported
5. Support HDR, HDR10, HDR10+, Dolby Vision, HLG pass through
6. Support HDMI audio formats: LPCM, Dolby Digital/Plus/EX, Dolby True HD, DTS, DTS-EX, DTS-96/24, DTS High Res, DTS-HD Master Audio, DSD
7. Built-in Equalizer, Retiming and Driver
8. Advanced EDID management
9. Support audio de-embedding function (output through the optical and analog port)
10. Compact design for easy and flexible installation

Package Contents

1.	8K HDMI 1x2 Splitter	1 pcs
2.	5V/2A Multinational Power Supply	1 pcs
3.	User Manual	1 pcs

Specifications

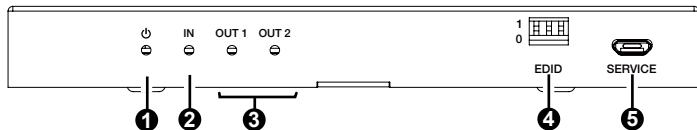
Technical	
HDMI Compliance	HDMI 2.1
HDCP Compliance	HDCP 2.3
Video Bandwidth	40Gbps
Video Resolution	Up to 8K@60Hz 4:2:0 10bit, 8K@30Hz 4:4:4 10bit, 4K@120Hz 4:4:4 10bit
Color Depth	8-bit, 10-bit, 12-bit
Color Space	RGB, YCbCr 4:4:4 / 4:2:2, YUV 4:2:0
HDR	HDR, HDR10, HDR10+, Dolby Vision, HLG pass through
Audio Formats	HDMI input/output: LPCM, Dolby Digital/Plus/EX, Dolby True HD, DTS, DTS-EX, DTS-96/24, DTS High Res, DTS-HD Master Audio, DSD Auido de-embedding output: Optical: LPCM 2/5.1 CH, Dolby Digital 2/5.1 CH, DTS 2/5.1 CH Analog: PCM 2.0
ESD Protection	Human body model – ±8kV (Air-gap discharge) &±4kV (Contact discharge)
Connection	
Input	1 × HDMI IN [Type A, 19-pin female]
Output	2 × HDMI OUT [Type A, 19-pin female] 1 × OPTICAL [S/PDIF] 1 × L/R [3.5mm Stereo Mini-jack]
Control	1 × SERVICE [Micro USB, Update port]

Specifications

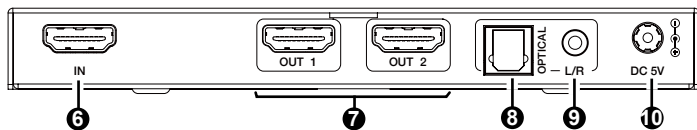
Mechanical				
Housing	Metal Enclosure			
Silkscreen Color	Black			
Dimensions	145mm (W) × 68mm (D) × 17mm (H)			
Weight	258 g			
Operating Temperature	0°C ~ 40°C / 32°F ~ 104°F			
Storage Temperature	-20°C ~ 60°C / -4°F ~ 140°F			
Relative Humidity	20-90% RH (Non-condensing)			
Power Consumption (Max)	4.15W (Max)			
Power Supply	Input: AC100 - 240V 50/60Hz, Output: DC 5V/2A (US/EU standards, CE/FCC/UL certified)			
Recommended HDMI Cable				
Video Resolution	8K	4K60	4K24	1080P
HDMI Cable Type	Ultra HDMI 2.1	HDMI 2.0	HDMI 1.4	HDMI 1.4
HDMI Cable Length (HDMI IN / OUT)	3m/10ft	8m/26ft	12m/39ft	15m/49ft
The use of "Premium High Speed HDMI" cable is highly recommended.				

Operation Controls and Functions

Front Panel



Rear Panel

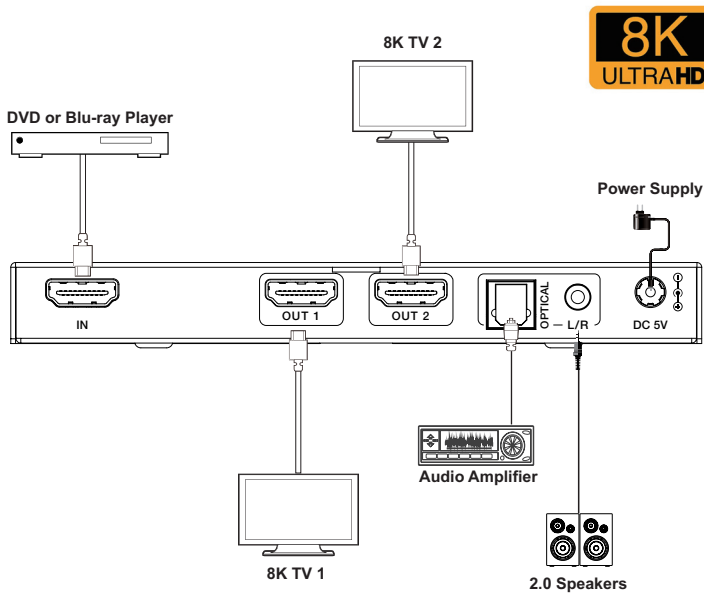


No.	Name	Function Description
1.	POWER LED	When the device is powered on, the blue LED will be on.
2.	IN LED	When the HDMI IN port connects an active source device, the blue LED will be on.
3.	OUT LED (1-2)	When the HDMI OUT 1/2 port connects a display device and outputs signal, the corresponding green LED will be on.

Operation Controls and Functions

No.	Name	Function Description
4.	EDID DIP switch	Use the DIP switch to set EDID. 111 - Copy OUT1 port sink EDID (as factory default) 110 - HDMI 1080p@60Hz, Audio 2ch PCM 101 - HDMI 4K@60Hz 4:4:4, Audio 2ch PCM, HDR 100 - HDMI 4K@60Hz 4:4:4, Audio 5.1ch PCM/DTS/DOLBY, HDR 011 - HDMI 4K@60Hz 4:4:4, Audio 7.1ch PCM/DTS/DOLBY/HD, HDR 010 - HDMI 8K@60Hz 4:2:0 + 8K@30Hz 4:4:4, 4K@120Hz 4:4:4, Audio 2ch PCM, HDR 001 - HDMI 8K@60Hz 4:2:0 + 8K@30Hz 4:4:4, 4K@120Hz 4:4:4, Audio 5.1ch PCM/DTS/DOLBY, HDR 000 - HDMI 8K@60Hz 4:2:0 + 8K@30Hz 4:4:4, 4K@120Hz 4:4:4, Audio 7.1ch PCM/DTS/DOLBY/HD, HDR
5.	SERVICE	Firmware update port.
6.	IN port	HDMI signal input port, connecting to HDMI source device such as DVD or PS5 with an HDMI cable.
7.	OUT port (1-2)	HDMI signal output port, connecting to HDMI display device such as TV or Monitor with an HDMI cable.
8.	OPTICAL	Optical fiber audio output port.
9.	L/R	Analog audio output port.
10.	DC 5V	DC 5V2A Power input port.

Application Example





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