



UHD12-EX230-K

4K HDMI™ Extender Splitter 1x2 Over CAT6 70m

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. 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.

Registration Page

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.

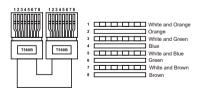
OREI Live Technical Support Hours

US team (US/Canada/Mexico): Monday-Friday, 9 a.m. - 5 p.m. Central Time **Support Email** - info@orei.com |

Support Number - 877-290-5530

Caution

The product requires the use of straight through CAT cables with TIA-568B standard. Please connect in direct interconnection method and do not cross connect.



Direct Interconnection Method

Introduction

The UHD12-EX230-K HDMI Extender Splitter allows you to send media up to 230ft away at 4K resolution over CAT6/7 cables. It is HDCP 2.2 compliant with 18Gbps video bandwidth. Extend media up to 230ft/70m at 4K@30Hz and 197ft/60m at 4K@60Hz. HDMI loop output at the Transmitter allows you to connect a display near the source. Advanced EDID management allows better compatibility. Power over cable technology simplifies installation as only one power adapter is needed which connects to the Transmitter. Its compact design makes it ideal for any personal or commercial setups.



Features & Package Contents

- 1. HDCP 2.2 compliant
- 2. Video resolution up to 4K@60Hz
- 3.18Gbps video bandwidth
- 4. Extend media up to 197ft/60m at 4K@60Hz and up to 230ft/70m at 4K@30Hz
- 5. Loop output to connect a local display
- 6. Power over Cable technology; only requires power adapter at the Transmitter end
- 7. Advanced EDID management
- 8. Compact design for easy installation

Package Contents

1.	UHD12-EX230-K Transmitter	1pcs
2.	Receiver	2pcs
3.	Mounting Ears	6pcs
4.	Machine Screw (KM3*4)	12pcs
5.	Power Adapter	1pcs
6.	User Manual	1pcs

Specifications

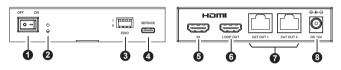
Technical	
HDMI Compliance	HDMI 2.0b
HDCP Compliance	HDCP 2.2
Video Bandwidth	18Gbps
Video Resolution	480i60, 576i50, 480p60, 576p50, 720p50/60, 1080i50/60, 1080p24/25/30/50/60; 640x480@60, 1024x768@60, 1280x768@60, 1280x768@60, 1280x768@60, 1280x768@60, 1280x768@60, 1440x900@60, 1680x1050@60, 1920x1200@60RB; 3840x2160(4K)@24/25/30/50/60; 4096x2160(4K)@24/25/30/50/60;
Color Depth	8-bit,10-bit,12-bit(1080p@60Hz) 8-bit (4K2K@60Hz YUV4:4:4) 8-bit,10-bit,12-bit(4K2K@60Hz YCbCr 4:2:2/4:2:0)
Color Space	RGB, YCbCr 4:4:4 / 4:2:2 YUV 4:2:0
Audio Formats	LHDMI Loop Out: LPCM, Dolby Digital/Plus/EX, Dolby True HD, DTS, DTS-EX, DTS-96/24, DTS High Res, DTS-HD Master Audio, DSD Remote End: LPCM 2.0, Dolby 5.1, DD+7.1, DTS 5.1
HDR	HDR10, HDR10+, Dolby Vision, HLG
Transmission Distance	230ft/70m for 4K@30Hz via a single CAT6 cable 197ft/60m for 4K@60Hz via a single CAT6 cable
ESD Protection	IEC 61000-4-2: ±8kV (Air-gap discharge) & ±4kV (Contact discharge)

Specifications

Connection		
Transmitter	Input: Output: Control:	1× HDMI [Type A, 19-pin Female] 1× HDMI [Type A, 19-pin Female] 2× CAT [RJ45] 1× USB-C [Update port]
Receiver	Input: Output:	1× CAT [RJ45] 1× HDMI [Type A, 19-pin Female]
Mechanical		
Housing	Metal Enc	losure
Color	Black	
Dimensions	Receiver:	er: / 4.33in W: 70mm / 2.75in H: 24.5mm / 0.96in 3.18in W: 49mm / 1.92in H: 25mm / 0.98in
Weight	l	er: 241g / 8.5oz 16g / 4.09oz
Power Consumption	7.4W (Max	:)
Power Supply		100-240V 50/60Hz, Output: DC 12V/1A andards, CE/FCC/UL certified)
Operating Tempera- ture	32~104°F / 0~40°C	
Storage Temperature	-4~140°F / -20~60°C	
Operating Humidity	20%~80% relative humidity, non-condensing	
Storage Humidity	10%~90% r	relative humidity, non-condensing

Operation Controls and Functions

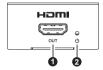
Transmitter:

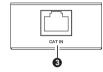


No.	Name	Function Description
1.	Power switch	Press this switch to power on/off the transmitter.
2.	Power LED	When the transmitter is powered on, the red LED will light up.
3.	EDID DIP switch	Use the DIP switch to set EDID. 1 is Up and 0 is Down . * EDID list is available on Page 9.
4.	SERVICE	Firmware update port.
5.	HDMIIN	Connect a media device such as a DVD Player, set-top box, etc.
6.	HDMI LOOP OUT	Connect a display device such as a TV or Monitor.
7.	CAT OUT (1~2)	Connect a CAT6/7 cable. The other end connects to the Receivers.
8.	DC 12V	Connect the included power adapter.

Operation Controls and Functions

CAT Receiver





No.	Name	Function Description
1.	HDMI OUT	Connect a display device such as a TV or Monitor.
2.	POWER LED	When the receiver is powered on, the red LED will light up.
3.	CAT IN	Connect a CAT6/7 cable. The other end connects to the Transmitter.

* EDID Setting List: 1=UP | 0=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

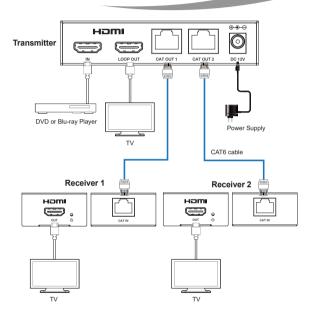
[DIP]=0111: 4K30, 7.1CH, [DIP]=0110: 1080P, 2.0CH

[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 TX loop out EDID

Application Example





The terms HDMI and HDMI High-Definition Multimedia interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries.

FAQs & Troubleshooting

1. No output

Try a lower resolution from the source device
Try changing the CAT cable
Try changing the EDID settings
Check if the HDMI OUT on the Transmitter is also having the same issue

2. Can I use this to extend my PC display to multiple locations?

You can use this device to duplicate your PC screen to multiple locations. However, it will not extend them.

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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