



UHD-EX230-KVM1

**4K@60hz HDMI™ Extender
(KVM) - 230ft (Cat6)**

USER MANUAL

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Table of Contents

Introduction	04
Features	05
Package Contents	05
Specifications	06
Operation Controls and Functions	08
Application Example	10
FAQs & Troubleshooting	11

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. - 5 p.m.

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

Introduction

The UHD-EX230-KVM1 HDMI Extender is an ideal solution for extending media signals from a computer or laptop up to 70m (~230 feet) over a CAT6/7 cable, while also controlling it remotely. It is HDCP 2.2 compliant, supporting video resolutions up to 4K@60Hz with a video bandwidth of up to 18Gbps. It also supports HDR10 and HLG. This device is compatible with uncompressed LPCM and compressed DTS, Dolby Digital audio formats and features a 3.5mm output at the receiver end. It includes USB extension for remote PC control via a keyboard and mouse at the receiver end. Its compact design and plug-and-play setup make it perfect for work-from-home professionals and other commercial setups.



Features & Package Contents

1. HDCP 2.2 compliant
2. Video resolutions up to 4K@60Hz
3. Video bandwidth up to 18Gbps
4. Extend media up to 70m (~230 feet) over a CAT 6/7 cable at 4K@60Hz
5. HDR10 & HLG support
6. Supports uncompressed LPCM and compressed DTS, Dolby Digital audio format
7. KVM functionality; to control a PC remotely
8. Compact design and plug-and-play setup

Package Contents

1.	UHD-EX230-KVM1 Transmitter	1 pcs
2.	UHD-EX230-KVM1 Receiver	1 pcs
3.	Power Adapter	2 pcs
4.	User Manual	1 pcs

Specifications

Technical	
HDCP Compliance	HDCP 2.2
HDMI Compliance	HDMI 2.0
Video Bandwidth	18Gbps
USB transmission rate	12Mbps
USB Standard	USB 1.1
Video Resolution	480i,576i,1080i 480p,576p,720p,1080p,4K@60Hz
Color Space	YCbCr 4:4:4YCbCr 4:2:2/CbCr 4:2:0/RGB
Color Depth	12-bit
Audio Formats	Uncompressed:LPCM Compressed: DTS, Dolby Digital
HDR	Supported
ESD Protection	Contact discharge (±4KV), air discharge (±8kv),Implementation of the standard: IEC61000-4-2
Connection	
Transmitter	Input: 1 x HDMI [Type A, 19-pin female] 1 x DC 5V [For Power] Output: 1 x HDMI [Type A, 19-pin female] 1 x CAT [RJ45] Control: 1 x USB [Type A]

Connection

Receiver	Input:	1 x CAT [RJ45]
		1 x DC 5V [For Power]
	Output:	1 x HDMI [Type A, 19-pin female]
		1 x L/R [Stereo 3.5mm Jack]
	Control:	2 x USB [Type A]

Mechanical

Housing	Metal
Color	Black
Dimensions	L: 95.6mm / 3.76in W: 84.6mm / 3.33in H: 22.8mm / 0.89in
Weight	Tx & Rx: 162g / 5.71oz
Power Supply	Input: AC 100-240V 50/60Hz, Output: DC 5V/1A (US/EU standards, CE/FCC/UL certified)
Power Consumption	Tx: 1.3W; Rx: 1.6W
Operating Temperature	0°C ~ 50°C / 32°F ~ 122°F
Storage Temperature	-20°C ~ 60°C / -4°F ~ 140°F
Relative Humidity	5~90% RH (non-condensing)

Operation Controls & Functions

Transmitter



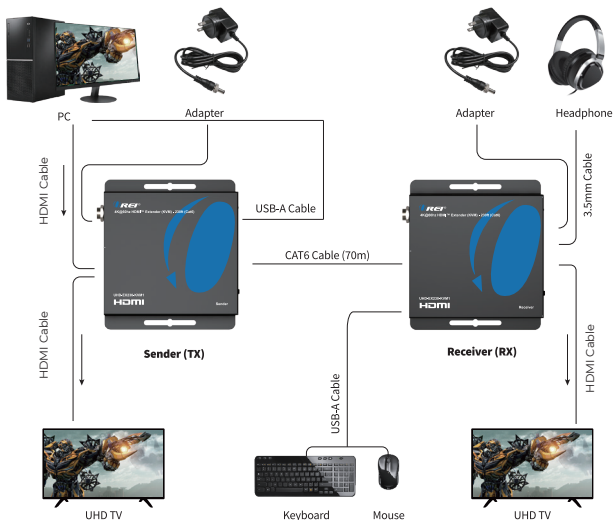
No.	Name	Function Description
1.	DC 5V	Connect the included power adapter
2.	HDMI OUT	Connect a display device such as TV, Monitor, etc.
3.	HDMI IN	Connect a media device such as DVD Player, set-top box, etc.
4.	Reset	Press to Reset the unit
5.	CAT6	Connect a CAT6/7 cable. The other end connects to the Receiver.
6.	USB-A	Connect to a USB port on a PC/Laptop to control it remotely.
7.	Power & USB LED	Power LED: will light up when the unit is powered on. USB LED:- LED on: Keyboard/Mouse connected LED off: Keyboard/Mouse not connected LED flashing: Keyboard/Mouse transmitting data

Receiver



No.	Name	Function Description
1.	DC 5V	Connect the included power adapter
2.	HDMI OUT	Connect a display device such as TV, Monitor, etc.
3.	L/R	Connect an audio device with a 3.5mm input such as Soundbar, AVR, Headphones, etc.
4.	Reset	Press to reset the unit
5.	CAT6	Connect a CAT6/7 cable. The other end connects to the Transmitter.
6.	K/M	Connect USB devices like Keyboard and Mouse to control the PC/Laptop at the Transmitter end.
7.	Power & K/M LED	Power LED; will light up when the unit is powered on. K/M LED:- LED on: Keyboard/Mouse connected LED off: Keyboard/Mouse not connected LED flashing: Keyboard/Mouse transmitting data

Application Example



FAQs & Troubleshooting

1. No Output

Try a lower resolution from the source device
Try changing the CAT cable or HDMI cables
Check if the HDMI OUT on the Transmitter is working or not

2. Can I connect a wireless keyboard/mouse or a game controller to play games remotely?

Yes, you can connect a wireless keyboard/mouse but you cannot connect a game controller to control a gaming console remotely. To use a game controller, you need a KVM extender that has a USB 2.0 port.

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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