



UHD-WPE330-KVM

**4K HDBaseT HDMI™ & USB-C Extender
with Wall Plate (TX) (KVM) - 330ft (Cat6)**

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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-WPE330-KVM is an HDBaseT KVM Extender that allows you to connect two computers or laptops and control them from a remote location using a single keyboard, mouse, and display. It supports both HDMI™ and USB-C inputs, ensuring broad compatibility with modern computers. The system is compliant with HDMI™ 2.0b, HDCP 2.2, USB 2.0, and DisplayPort 1.2a, delivering up to 18Gbps bandwidth and supporting video resolutions up to 4K@60Hz. Signals can be extended up to 100 meters (~330 ft) over a single CAT6/7 cable.

The extender supports HDR10 and HDR10+, along with advanced audio formats including Dolby Atmos, Dolby Digital Plus, DTS:X, and DTS-HD Master Audio, ensuring a high-quality AV experience. Switching between the two connected computers is simple using the button on the Transmitter or via automatic switching for added convenience.

Designed for clean and professional installations, the Transmitter fits into a US one-gang Decora-style wall plate enclosure. A dedicated USB-C charging port on the Transmitter allows laptops to be charged while in use. With Power over Cable (PoC) support, only the Receiver needs to be powered, reducing cable clutter and simplifying installation.

1. **HDCP 2.2 & DisplayPort 1.2a Compliant** – Ensures broad device compatibility
2. **4K@60Hz Extension up to 100m** – Transmits uncompressed 4K@60Hz 4:4:4 video up to ~330 feet over a single CAT6 cable using HDBaseT technology.
3. **18Gbps Video Bandwidth** – Supports full-bandwidth, uncompressed video
4. **HDR Support** – Compatible with HDR10 and HDR10+
5. **Advanced Audio Formats** – Supports Dolby Atmos, Dolby Digital Plus, DTS:X, DTS-HD Master Audio, PCM 2-8CH, and more
6. **Dual Input Wall Plate** – Combines the functionality of a 2x1 Switch and HDBaseT transmitter with HDMI™ and USB-C inputs in a US One-Gang Decora-style wall plate.
7. **USB-C Charging Port** – Provides power to the connected laptop
8. **Effortless Switching** – Automatic or manual switching supported
9. **USB 2.0 Extension** – Connect multiple peripherals such as keyboard, mouse, USB drives, etc.
10. **PoC Powered** – Only one power supply needed: at the Receiver end

Package Contents & Specifications

Package Contents

1.	UHD-WPE330-KVM (Transmitter)	1 pcs
2.	UHD-WPE330-KVM (Receiver)	1 pcs
3.	Faceplate	1 pcs
4.	3-pin 3.81 mm Phoenix Connector (male)	1 pcs
5.	Mounting Ears	2 pcs
6.	Screws	8 pcs
7.	Power Adapter	1 pcs
8.	User Manual	1 pcs

Specifications

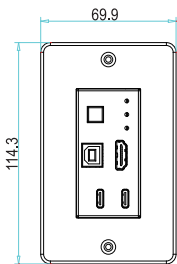
Technical	
HDMI™ Compliance	HDMI™ 2.0b, DisplayPort 1.2a
HDCP Compliance	HDCP 2.2
Video Bandwidth	18Gbps
Video Resolution	4096×2160@24/25/30/50/60Hz, 3840×2160@24/25/30/50/60Hz, 2048×1080p, 1080p@23.98/24/25/29.97/30/50/59.94/60Hz, 1080i@50/59.94/60Hz, 720p@50/59.94/60Hz, 576p, 576i, 480p, 480i
Color Space	RGB, YCbCr 4:4:4, YCbCr 4:2:2, YUV 4:2:0
Color Depth	8/10/12-bit

Technical	
HDR	HDR10, HDR10+
HDMI™ Audio Formats	Dolby Atmos, TrueHD, Digital+, Digital; DTS X, HD Master Audio, HD High Resolution Audio, 5.1; PCM 2-8Ch
Transmission Distance	328ft / 100m over CAT6/6a/7 cable
ESD Protection	IEC 61000-4-2: ±8kV (Air-gap discharge), ±4kV (Contact discharge)
Connection	
Transmitter	Inputs: 1x HDMI™ [Type A, 19-pin female] 1x USB-C [Host] 1x USB-C [PD charging] Outputs: 1x HDBaseT [RJ45, 8-pin female] Control: 1x Micro USB [Firmware update port] 1x USB [Type B Host]
Receiver	Inputs: 1x HDMI™ [Type A, 19-pin female] 1x HDBaseT [RJ45, 8-pin female] Outputs: 1x HDMI™ [Type A, 19-pin female] 1x L/R [3-pin Stereo Phoenix jack] Control: 2x USB [Type A Device] 1x Micro USB [Firmware update port]
Mechanical	
Housing	Metal Enclosure
Color	White / Black
Dimensions	Wall plate: L: 33.3mm/1.31in W: 65.7mm/2.59in H: 68.7mm/2.70in Faceplate: L: 69.9mm/2.75in W: 3mm/0.12in H: 114.3mm/4.5in Receiver: L: 200mm/7.87in W: 98mm/3.86in H: 23mm/0.91in

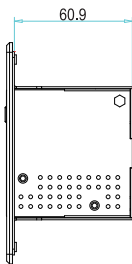
Product Dimensions

Mechanical	
Weight	Wall plate: 196g/6.91oz, Receiver: 511g/18.02oz
Power Supply	POE (only from Receiver to Transmitter)
Power Consumption	Wall plate: 9W (Max), Receiver: 11W (Max)
Operation 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, no condensation
Storage Humidity	10% ~ 90% relative humidity, no condensation

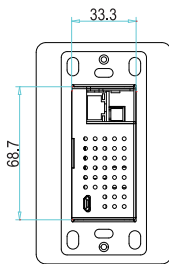
Product Dimensions



Front



Side

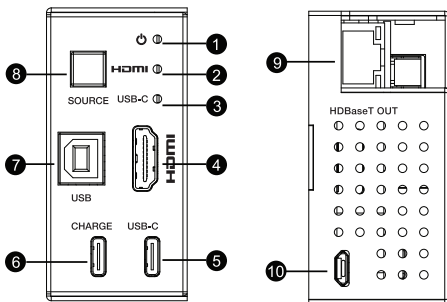


Back

Unit: mm

Operation Controls and Functions

Transmitter Panel

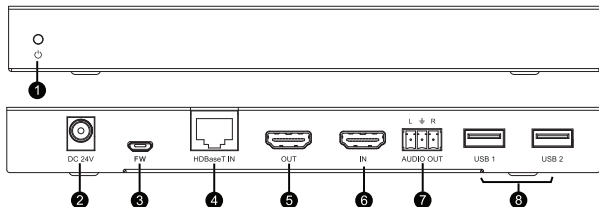


No.	Name	Function Description
1.	Power LED	The LED lights up green, when the device is powered on. The LED lights up red, when the device is on standby.
2.	HDMI LED	The green LED lights up, when the HDMI input port is active and the HDMI signal is detected.
3.	USB-C LED	The green LED lights up, when the USB-C input port is active and USB-C signal is detected.
4.	HDMI Input	Connect a PC or Laptop (The PC or laptop can be controlled from the Receiver end with KVM functionality)
5.	USB-C port	Connect a laptop/PC with a USB-C port that supports video output or DP ALT Mode.

Operation Controls and Functions

No.	Name	Function Description
6.	CHARGE port	Connect a USB-C power adapter to power the connected laptop if it supports PD charging through USB-C.
7.	USB-B port	Connect a PC or Laptop through its USB port.
8.	SOURCE button	Press to switch between the USB-C and HDMI input ports.
9.	HDBaseT OUT	Connect a CAT 6/7 cable. The other end connects to the Receiver.
10.	Micro-USB	Firmware update port.

Receiver Panel



Operation Controls and Functions

No.	Name	Function Description
1.	Power LED	The red LED lights up when the device is powered on.
2.	DC 24V	Connect the included power adapter.
3.	FW	Firmware update port.
4.	HDBaseT IN	Connect a CAT 6/7 cable. The other end connects to the Transmitter.
5.	HDMI OUT	Connect a display device such as a TV, Monitor, etc.
6.	HDMI IN	Connect a media source device such as DVD player, Streaming device, etc
7.	AUDIO OUT	Connect an audio device such as powered speakers, amps, mixers, etc.
8.	USB ports	Connect a USB peripheral like Keyboard, Mouse, Webcam, etc.

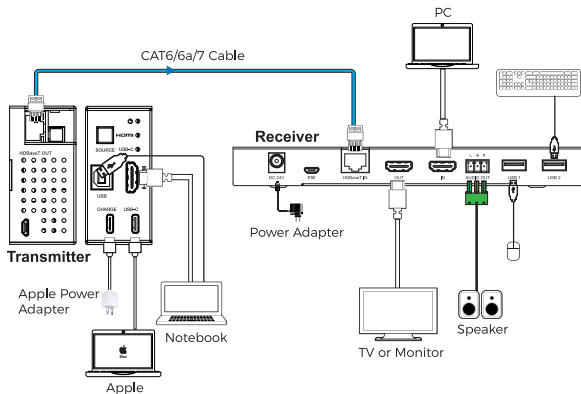
Note:

The transmitter supports both automatic and manual input source selection.

In manual mode, press the SOURCE button to switch between the HDMI and USB-C input sources.

In automatic mode, the unit will automatically select the most recently connected or currently active source. If both HDMI and USB-C inputs are active, HDMI will take priority. If neither HDMI nor USB-C has an active signal, then the signal would switch to the HDMI INPUT on the Receiver.

Application Example



HDMITM
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. Image flickering or signal dropouts

- Try lowering the resolution from the source.
- Check if the other source (HDMI or USB-C) is working as expected.
- Try changing the CAT cable. We recommend using round, shielded CAT 6 cables.

2. Laptop not charging via USB-C

USB-C charging would only work if the connected laptop supports PD charging. Make sure you connect the designated USB-C power adapter to the CHARGE port on the Wall Plate Transmitter.

3. Automatic switching not working

Automatic switching will occur when you power on or connect your PC or laptop to an available input port. However, if both HDMI and USB-C inputs are connected simultaneously, the device will prioritize the HDMI input. In that case, you will need to manually switch to the USB-C input if needed.

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.

OREI Live Technical Support Hours

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