



UHD-WPE230-K

**18Gbps HDMI Over HDBaseT with Wall
Plate Transmitter up to 230Ft**

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USER MANUAL



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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.

Registration Page

Please Activate your warranty by registering our product through the link below - <https://www.orei.com/pages/warranty-registration>

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

Or

Chat Live on www.orei.com

Send us an instant message now. Our Technical Support Team will respond momentarily. Available during live support hours.

Introduction

The UHD-WPE230-K HDBaseT Wall Plate Extender can transmit up to 4K@60Hz (4:4:4) video over a single CAT 6/6a/7 cable up to 130ft/40m or 1080p@60Hz up to 230ft/70m. It supports Power over Cable (PoC) functionality that allows for greater flexibility in installations. It also supports two-way IR and RS-232.



1. HDMI 2.0b 18Gbps, HDCP 2.2 compliant
2. Up to 4K@60Hz(4:4:4), 4K@30Hz, 1080p@120Hz
3. Up to 7.1 channels HD audio
4. HDBaseT™ over a single CAT 6/6a/7 cable up to 230ft/70m distance
5. One HDMI input, 1 Gang US Decora Wall Plate
6. Two-way IR and RS-232
7. POC (Power Over Cable) function. Either TX or RX is powered by 24V1A power supply, and the other does not need power supply. POC Power consumption is less than 10W.
✗ **See the description 1**
8. Transfer Bidirectional Infrared control signal together with the HDMI signal.
✗ **See the description 2**
9. Transfer Bidirectional RS-232 control signal together with the HDMI signal.
✗ **See the description 3**

Package Contents

1.	1 × 18Gbps HDMI Wall Plate Transmitter	5.	2 × Wideband IR Transmitter
2.	1 × 18Gbps HDMI Receiver	6.	2 × Wideband IR Receiver
3.	2 × Phoenix connectors (3 pins)	7.	1 × 24V/1A Power Adapter
4.	2 × Phoenix connectors (2 pins)	8.	1 × User Manual

Specifications

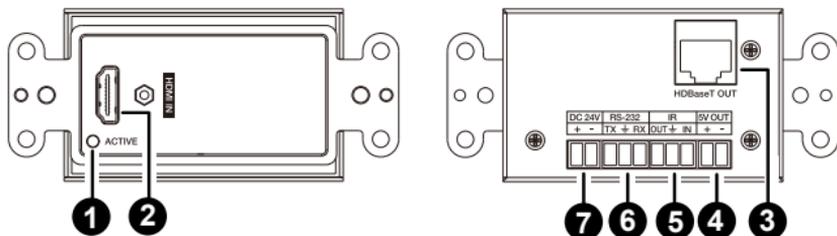
Technical	
HDMI Compliance	HDMI 2.0b
HDCP Compliance	HDCP 2.2/1.4
Video Bandwidth	18Gbps
Video Resolution	Up to 4K@50/60Hz(YUV4:4:4),4K@30Hz, 2560x1440(2K)@24/30/50/60Hz, 1080P@120Hz, and 1080P 3D@60Hz
Color Depth	10-bit, 12-bit
Color Space	RGB/YCbCr 4:4:4, YCbCr 4:2:2
HDMI Audio Formats	LPCM 2/5.1/7.1CH, Dolby Digital, DTS 5.1, Dolby Digital+, Dolby TrueHD, DTS-HD Master Audio, Dolby Atmos, DTS:X
ESD Protection	Human-body Model: ±8kV (Air-gap discharge), ±4kV (Contact discharge)

Specifications

Connection	
Transmitter	Inputs: 1 × HDMI Type A [19-pin female] 1 × IR INPUT [Phoenix jack] 1 × RS-232 [Phoenix jack] Outputs: 1 × HDBaseT OUT [RJ45] 1 × IR OUTPUT [Phoenix jack]
Receiver	Inputs: 1 × HDBaseT IN [RJ45] 1 × IR INPUT [3.5mm Stereo Mini-jack] 1 × RS-232 [Phoenix jack] Outputs: 1 × HDMI Type A [19-pin female] 1 × IR INPUT [3.5mm Stereo Mini-jack]
Mechanical	
Housing	Transmitter Front Panel - Plastic, Transmitter Rear Case - Metal-, Receiver - Metal
Color	Transmitter Front Panel - White, Transmitter Rear Case - Black, Receiver - Black
Dimensions	Transmitter: 103.5mm (W) × 46mm (D) × 30mm (H) Receiver: 115mm (W) × 65mm (D) × 17mm (H)
Weight	Transmitter: 163g, Receiver: 207g
Power Consumption	9W (Max.)
Power Supply	Input: AC 100-240V 50/60Hz Output: DC 24V/1A (US/EU standards, CE/FCC/UL certified)
Operating Temperature	32-104°F / 0-40°C
Storage Temperature	-4-140°F / -20-60°C
Relative Humidity	20-90% RH (Non-condensing)

Operation Controls and Functions

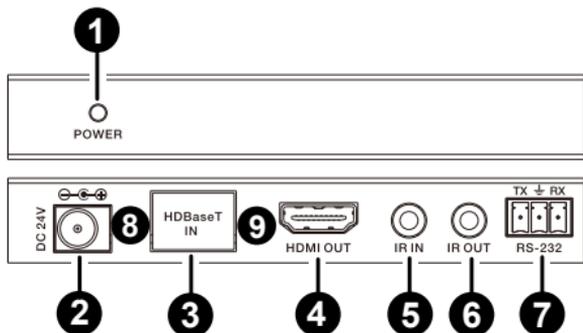
Transmitter Panel



No.	Name	Function Description
1.	HDMI IN	Connect to HDMI source devices such as Blu-ray or PS4.
2.	ACTIVE	Green LED input signal indicator.
3.	HDBaseT OUT	HDBaseT output port. Connect to HDBaseT receiver with a UTP cable.
4.	5V OUT	Supply 5V power for external IR receiver.
5.	IR IN/OUT	Use the phoenix jack to connect IR input or output.
6.	RS-232	Use the phoenix jack to connect PC or control system to transmit RS-232 commands.
7.	DC 24V	Use the phoenix jack to connect power supply.

Operation Controls and Functions

Receiver Panel



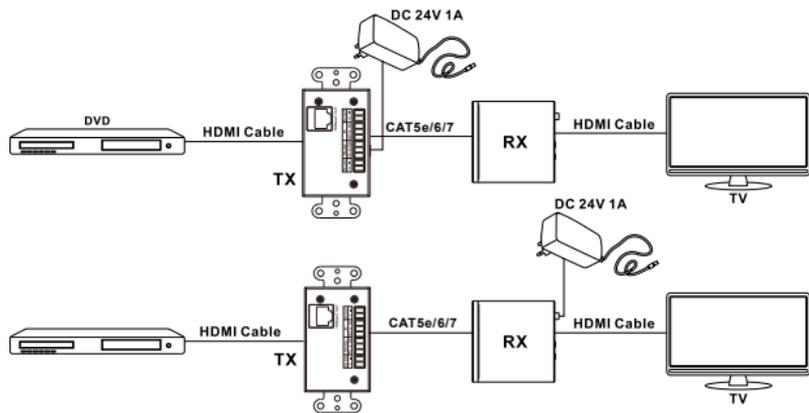
No.	Name	Function Description
1.	POWER LED	System power indicator.
2.	DC 24V	Connect 24V/1A adapter to AC wall outlet for power supply.
3.	HDBaseT IN	Standard HDBaseT signal input port. Connect to HDBaseT Transmitter with a UTP cable following the standard of direct interconnection method.
4.	HDMI OUT	HDMI output port. Connect to a TV or monitor with HDMI cable.
5.	IR IN	Channel 1 IR Receiver. Connect with Wideband IR Rx.
6.	IR OUT	Channel 2 IR Transmitter. Connect with Wideband IR Tx.
7.	RS-232	Phoenix jack provides serial port control signal between transmitter and receiver.

Operation Controls and Functions

No.	Name	Function Description
8.	Connection Signal Indicator	<ul style="list-style-type: none"> • Illuminated: The Transmitter and Receiver are in good connection status. • Flashing: The Transmitter and Receiver are in poor connection status. • Dark: The Transmitter and Receiver are not connected.
9.	Data Signal Indicator	<ul style="list-style-type: none"> • Illuminated: HDMI signal with HDCP is being transferred. • Flashing: The HDMI signal without HDCP is being transferred. • Dark: No HDMI signal.

※ Description 1

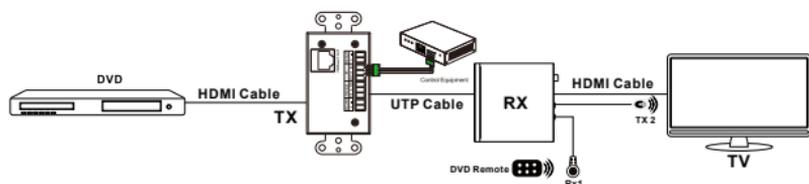
POC (Power over Cable) Application Example



Operation Controls and Functions

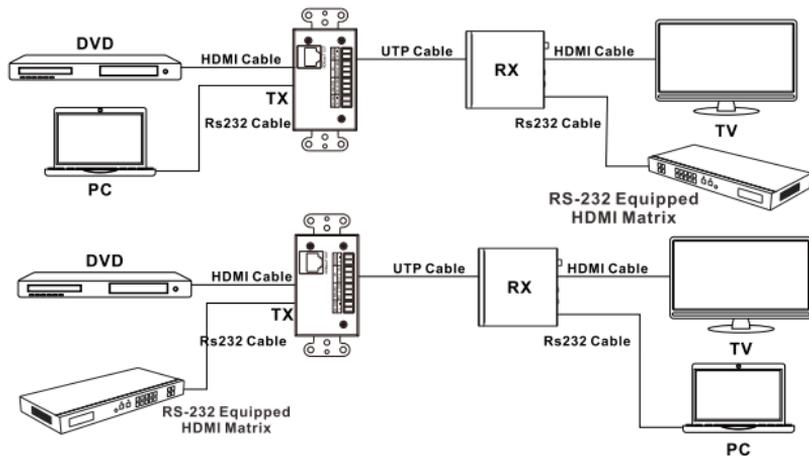
✕ Description 2

Bidirectional Infrared control Application Example

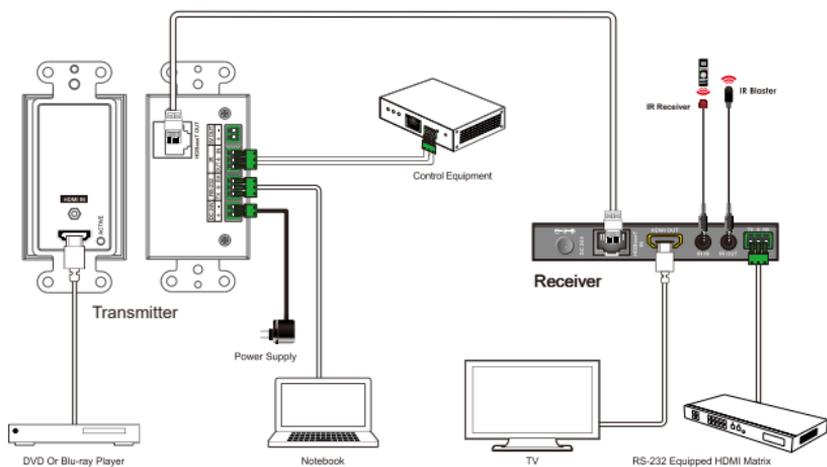


✕ Description 3

Bidirectional RS-232 control Application Example



Application Example





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