



HD14-EX165-K

**HDMI™ Extender Splitter
1x4 Over CAT6 70m**

USER MANUAL

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Table of Contents

Introduction	04
Features	05
Package Contents	05
Specifications	06
Operation Controls and Functions	08
IR Cables	10
EDID Presets	11
Application Example	12
FAQs & Troubleshooting	13

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.

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Introduction

The HD14-EX165-K efficiently distributes one HDMI source signal to any four display devices placed far away. It supports video resolutions up to 4K@30Hz at 165 feet and 1080p@60hz up to 230 feet over a CAT6/7 cable. The device is HDMI 1.4 and HDCP 1.4 compliant. It provides video bandwidth of 10.2Gbps while providing support for audio formats such as LPCM 7.1, Dolby True HD and DTS-HD Master Audio. The Transmitter features an HDMI loop out to connect a display near the source. The device also comes with unidirectional IR control from Receiver to the Transmitter and also support PoC requiring only one power adapter. This Extender Splitter is perfect for video distribution to 8 displays placed far away in any residential or commercial setups given its robust metal build and plug and play setup.



Features & Package Contents

1. HDMI 1.4 and HDCP 1.4 compliant
2. Video resolutions up to 4K@30Hz and 1080p@60Hz
3. 10.2Gbps video bandwidth
4. Extend audio/video signals up to 165 feet at 4K@30Hz and up to 230 feet at 1080p@60Hz
5. Audio formats: LPCM 7.1, Dolby True HD and DTS-HD Master Audio
6. Unidirectional IR control from the Receivers to the Transmitter
7. Power over Cable support requiring only one power adapter
8. HDMI loop out to connect a display near the source
9. Advanced EDID management
10. Robust metal build and plug and play setup

Package Contents

1.	HD14-EX165-K Transmitter	1pcs
2.	Receiver	4pcs
3.	IR Blaster Cable	1pcs
4.	IR Receiver Cable	4pcs
5.	Mounting Ear	2pcs
6.	Machine Screw (KM3*4)	4pcs
7.	Power Adapter	1pcs
8.	User Manual	1pcs

Specifications

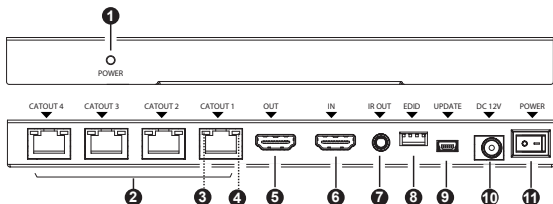
Technical	
HDMI Compliance	HDMI 1.4
HDCP Compliance	HDCP 1.4
Video Bandwidth	10.2Gbps
Video Resolution	480i ~1080p60Hz, 4K@30Hz
Color Space	RGB, YCbCr 4:4:4 / 4:2:2, YUV 4:2:0
Color Depth	8-bit,10-bit,12-bit (1080p@60Hz); 8-bit (4K@30Hz)
Audio Formats	LPCM 7.1CH, Dolby True HD, and DTS-HD Master Audio
HDR	HDR, HDR10, Dolby Vision, HLG
ESD Protection	IEC 61000-4-2: ±8kV (Air-gap discharge) & ±4kV (Contact discharge)
Connection	
Transmitter	Input: 1 × HDMI [Type A, 19-pin female] Output: 1 × HDMI [Type A, 19-pin female] 4 × CAT [RJ45, 8-pin female] Control: 1 × IR OUT [3.5mm Stereo Mini-jack] 1 × SERVICE [Micro USB, Update port]
Receiver	Input: 1 × CAT [RJ45, 8-pin female] Output: 1 × HDMI [Type A, 19-pin female] Control: 1 × IR IN [3.5mm Stereo Mini-jack]

Specifications

Mechanical	
Housing	Metal Enclosure
Color	Black
Dimensions	Transmitter: L: 210mm / 8.26in W: 83mm / 3.26in H: 18mm / 0.7in Receiver: L: 79.5mm / 3.12in W: 69mm / 2.7in H: 16.5mm / 0.65in
Weight	Transmitter: 448g / 0.98lbs Receiver: 130g / 4.58oz
Power Supply	Input: AC100-240V 50/60Hz, Output: DC 12V/2.5A (US/EU standards, CE/FCC/UL certified)
Power Consumption	11W (Max)
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)

Operation Controls and Functions

Transmitter

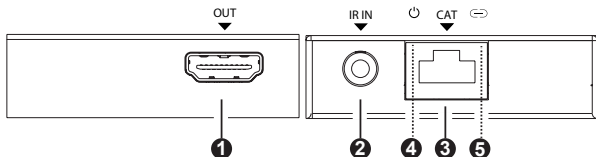


No.	Name	Function Description
1.	POWER LED	The Red LED will light up when the Transmitter is powered on.
2.	CAT OUT (1~4)	Connect a CAT6/7 cable. The other end connects to the Receivers.
3.	Power LED (Green)	The Green LED will light up when power is being transmitted to the Receivers.
4.	Data Signal LED (Yellow)	Illuminating: HDMI signal with HDCP. Flashing: HDMI signal without HDCP. No Illuminating: No HDMI signal.
5.	OUT	Connect a display device such as a TV or Projector.
6.	IN	Connect a media device such as a DVD Player, set-top box, etc.
7.	IR OUT	Connect the IR Blaster cable
8.	EDID DIP Switch	Used to switch between different EDID presets. Refer Page 11 for more details

Operation Controls and Functions

No.	Name	Function Description
9.	UPDATE	Connect to a PC to update the firmware
10.	DC 12V	Connect the included power adapter
11.	POWER Switch	Press the switch to turn the device on/off

Receiver



No.	Name	Function Description
1.	OUT	Connect a display device such as a TV or Projector.
2.	IR IN	Connect the IR Receiver cable
3.	CAT	Connect a CAT6/7 cable. The other end connects to the Transmitter.
4.	Power LED (Green)	The Green LED will light up when power is being received from the Transmitter.
5.	Data Signal LED (Yellow)	Illuminating: HDMI signal with HDCP. Flashing: HDMI signal without HDCP. No Illuminating: No HDMI signal.

IR Cables



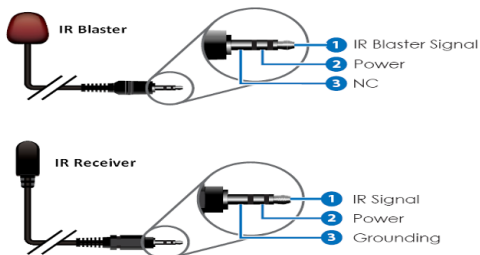
IR Receiver



IR Blaster

The IR Receiver cable connects to the IR IN port on the Receivers. The IR head is then placed on the TV or anywhere near in line of sight of the remote. The IR Blaster cable connects to the IR OUT port on the Transmitter and the IR head is then placed near the IR window of the media device.

Note: You can cannot use the TV remote to control the media source. You need to use the media source remote to be able to control it.



EDID Presets

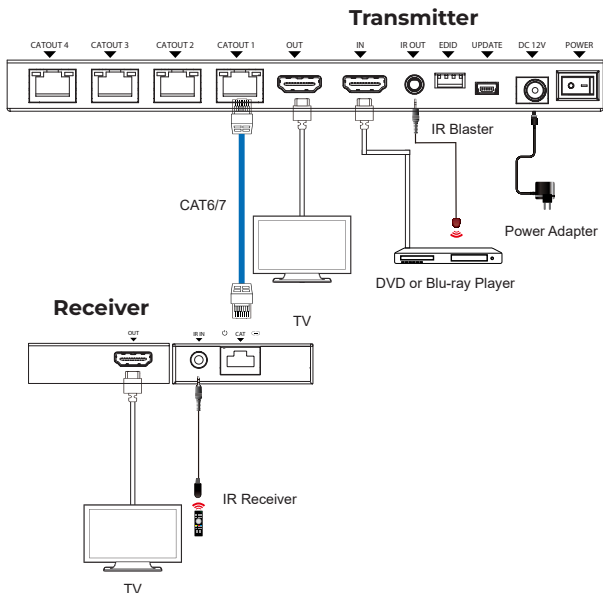
The list below features all the EDID presets. The image on the left shows how the switches need to be configured in order to achieve that specific setting.

Please turn the Transmitter off and then back on for the selected EDID setting to take effect

Position	EDID Description
 0	1080p, 2CH AUDIO
 1	1080p, DOLBY/DTS 5.1
 2	1080p, HD AUDIO
 3	1080i, 2CH AUDIO
 4	1080i, DOLBY/DTS 5.1
 5	1080i, HD AUDIO
 6	3D, 1080p, 2CH AUDIO
 7	3D, 1080p, DOLBY/DTS 5.1

Position	EDID Description
 8	3D, 1080P, HD AUDIO
 9	4K30, 2CH AUDIO
 A	4K30, DOLBY/DTS5.1
 B	4K30, HD AUDIO
 C	Copy Loop Out
 D	720p, 2CH AUDIO
 E	720p, DOLBY/DTS5.1
 F	720p, HD AUDIO

Application Example



HDMI™
HIGH-DEFINITION MULTIMEDIA INTERFACE

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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

3. How do I use the IR feature?

You can refer to this video to learn more about the IR feature:



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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