

HDMI 1×4 Splitter over CAT6 (70m)

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 - **www.orei.com/register**

Technical Support

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

Scan the QR code to watch a Video of How to Use the product.

Introduction

This HDMI 1x4 Splitter can distribute 1 HDMI source signal to any 4 display devices. Support video resolution up to 4K2K@30Hz 4:4:4. It is designed with 1 HDMI input, 1 HDMI loop output and 4 CAT outputs. The HDMI signal transmission distance can be extended up to 131ft / 40 meters at the resolution of 4K30Hz, or 230ft / 70 meters at 1080P@60Hz via a single CAT6 cable. The product supports one-way IR control signal pass-through and advanced EDID management.



Features

1. HDMI 1.4 and HDCP 1.4 compliant
2. Video resolution up to 4K2K@30Hz(4:4:4) 8-bit
3. Support audio formats: LPCM 7.1CH, Dolby True HD, and DTS-HD Master Audio
4. Extend the signal transmission distance up to 131ft / 40 meters at the resolution of 4K30Hz, or 230ft / 70 meters at 1080P@60Hz via a single-CAT6 cable
5. Support 1 HDMI input, 1 HDMI loop output and 4 CAT outputs.
6. Advanced EDID management
7. Support one-way POC function (only from transmitter to receiver)
8. Compact design for easy and flexible installation

Package Contents

1.	HDMI 1×4 Splitter over CAT6 (70m)	1pcs
2.	CAT Receiver	4pcs
3.	IR Blaster Cable (1.5 meters)	1pcs
4.	IR Receiver Cable (1.5 meters)	4pcs
5.	12V/2.5A DC Locking Power Adapter	1pcs
6.	Mounting Ear	2pcs
7.	Machine Screw (KM3*4)	8pcs
8.	User Manual	1pcs

Specifications

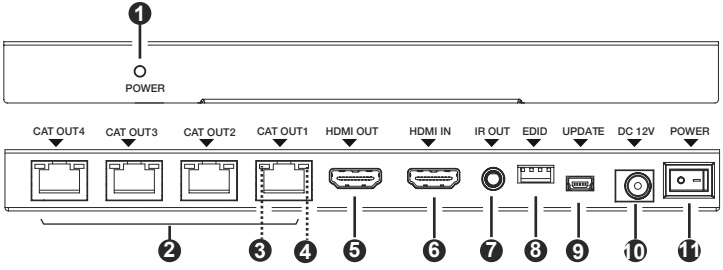
Technical	
HDMI Compliance	HDMI 1.4
HDCP Compliance	HDCP 1.4
Video Bandwidth	297MHz/10.2Gbps
Video Resolution	480i ~1080p50/60Hz, 4Kx2K@30Hz (4:4:4)
Color Depth	8-bit,10-bit,12-bit (1080p@60Hz); 8-bit (4K30Hz)
Color Space	RGB, YCbCr 4:4:4 / 4:2:2, YUV 4:2:0
HDMI Audio Formats	LPCM 7.1CH, Dolby True HD, and DTS-HD Master Audio
Transmission Distance	1080P@60--70m, 4K30 --40m
ESD Protection	Human body model — ±8kV (air-gap discharge) & ±4kV (contact discharge)
Connection	
HDMI Splitter	Input: 1×HDMI IN [Type A 19-pin female] Outputs: 1×HDMI OUT [Type A, 19-pin female] 4x CAT OUT [RJ45] Controls: 1× IR OUT [3.5mm Stereo Mini-jack] 1x EDID DIP switch [4-pin] 1x Update [Micro USB]

Specifications

Receiver	Inputs: 1x IR IN [3.5mm Stereo Mini-jack] 1x CAT IN [RJ45, 8-pin female] Output: 1x HDMI OUT [Type A, 19-pin female]
Mechanical	
Housing	Metal Enclosure
Color	Black
Dimensions	HDMI Splitter: 210mm (W) × 83mm (D) × 18mm (H) Receiver: 79.5mm (W) × 69mm (D) × 16.5mm (H)
Weight	HDMI Splitter: 448g | Receiver: 4 x 130g
Power Supply	12V/2.5A DC Power (US/EU standards, CE/FCC/RoHs certificated)
Power Consumption (Max)	11W
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

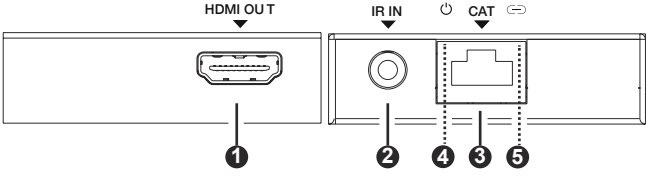
Splitter



No.	Name	Function Description
1.	POWER LED	When the Transmitter is powered on, the red power LED will be on.
2.	CAT OUT (1~4)	Connect to the CAT port of the Receiver with a CAT6 cable.
3.	Power LED (Green)	Transmitter supports one-way POC function. When it supplies power to the Receiver through a CAT cable, the Power LED will be on.
4.	Data Signal Indicator (Yellow)	**Illunimating:** HDMI signal with HDCP. **Flashing:** HDMI signal without HDCP. **Dark:** No HDMI signal.
5.	HDMI OUT	HDMI loop output port, connect to the HDMI display device such as TV or Monitor with an HDMI cable.
6.	HDMI IN	HDMI input port, connect to HDMI source device such as DVD or set-top box with an HDMI cable.
7.	IR OUT	Connect to IR blaster cable, the IR signal is from "IR IN" port of the Receiver.

No.	Name	Function Description
8.	EDID DIP Switch	Used to set EDID mode. Please refer to Section "6. EDID Mode" for details.
9.	UPDATE	Mini USB update port. Connect to PC for firmware updating.
10.	DC 12V	DC 12V Power input port.
11.	POWER Switch	Press the switch to power on/off the device ("-" for on, "o" for off).

CAT Receiver



No.	Name	Function Description
1.	HDMI OUT	HDMI signal output port. Connect to HDMI display device such as HDTV.
2.	IR IN	Connect to IR receiver cable, the IR signal will emit to the IR OUT port of the transmitter.
3.	CAT	CAT input port. Connect to the CAT output port of the transmitter with a CAT6 cable.
4.	Power LED (Green)	When the Receiver is powered on, the LED will be on. The device supports POC function, so the Receiver is powered by the Transmitter through a CAT cable.
5.	Data Signal Indicator (Yellow)	**Illunimating:** HDMI signal with HDCP. **Flashing:** HDMI signal without HDCP. **Dark:** No HDMI signal.

Operation Controls and Functions

Wideband IR (20KHz---60KHz) introduction

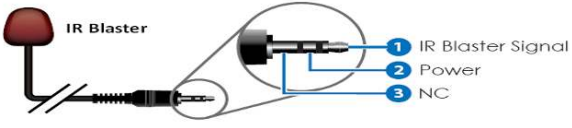


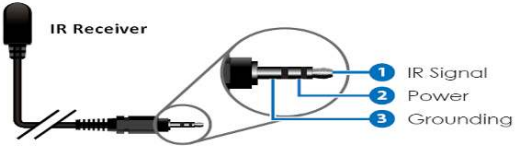
IR RECEIVER



IR BLASTER

IR Cable Pin Assignment





Control local device (Blu-ray player or DVD player, etc) from remote: The IR Receiver is connected to the receiver IR in port. The CAT output connector on the HDMI Splitter is connected via CAT6 cable to an HDMI receiver. The IR Transmitter is connected to the HDMI Splitter IR OUT port. **IR remote can be used to control local source device from remote.**

EDID Mode

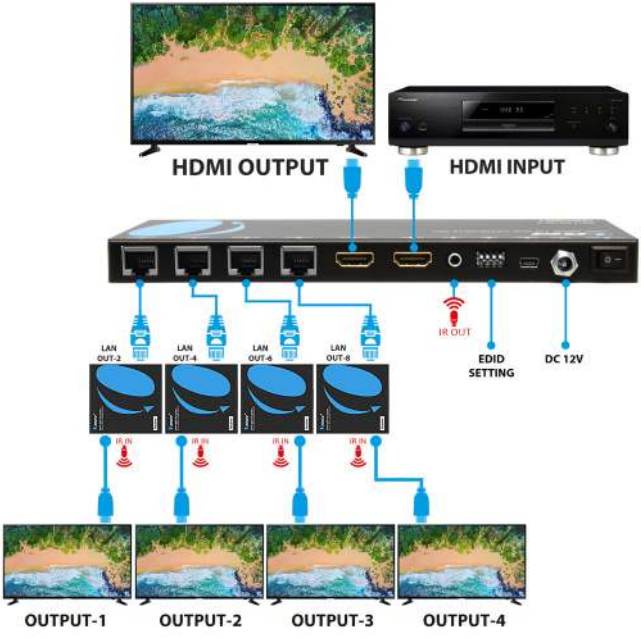
The defined EDID setting list of the product is shown as below:

Position	EDID Description
	1080p, 2CH AUDIO
	1080p, DOLBY/DTS 5.1
	1080p, HD AUDIO
	1080i, 2CH AUDIO
	1080i, DOLBY/DTS 5.1
	1080i, HD AUDIO
	3D,1080p, 2CH AUDIO
	3D, 1080p, DOLBY/ DTS 5.1

Position	EDID Description
	3D,1080P, HD AUDIO
	4K30, 2CH AUDIO
	4K30, DOLBY/DTS5.1
	4K30, HD AUDIO
	Copy Loop Out
	720p, 2CH AUDIO
	720p, DOLBY/DTS5.1
	720p, HD AUDIO

Attention: Please confirm the Extender is work normally, when you want to modify the new EDID to source, toggle the EDID switch to the corresponding number first, then plug the Transmitter power again. The Extender will send the new EDID to source.

Application Example



Application Example



Application Example





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