



# HDMI 1×8 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](http://www.orei.com/register)

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



# Introduction

This HDMI 1x8 Splitter can distribute 1 HDMI source signal to any 8 display devices. Support video resolution up to 4K2K@30Hz 4:4:4. It is designed with 1 HDMI input, 1 HDMI loop output and 8 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. It also supports one-way POC function.



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 8 CAT outputs.
6. Advanced EDID management
7. Support 12V POC function (only from transmitter to receiver)
8. Compact design for easy and flexible installation

## Package Contents

1.	HDMI 1x8 Splitter over CAT6 (70m)	1 pcs
2.	CAT Receiver	8pcs
3.	IR Blaster Cable (1.5 meters)	1 pcs
4.	IR Receiver Cable (1.5 meters)	8pcs
5.	12V/2.5A DC Locking Power Adapter	1 pcs
6.	Mounting Ear	2pcs
7.	Machine Screw (KM3*4)	8pcs
8.	User Manual	1 pcs

# Specifications

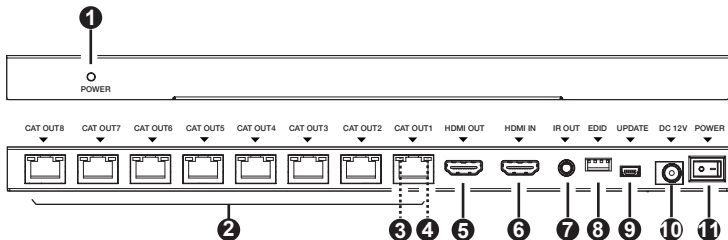
Technical	
HDMI Compliance	HDMI 1.4
HDCP Compliance	HDCP 1.4
Video Bandwidth	297MHz/10.2Gbps
Video Resolution	480i ~1080p50/60Hz, 4Kx2K@30Hz (4:4:4)
Color Depth	8-bit,10-bit,12-bit (1080p@60Hz); 8-bit (4K30Hz)
Color Space	RGB, YCbCr 4:4:4 / 4:2:2, YUV 4:2:0
HDMI Audio Formats	LPCM 7.1CH, Dolby True HD, 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] 8x 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]
<b>Mechanical</b>	
Housing	Metal Enclosure
Color	Black
Dimensions	HDMI Splitter: 295mm (W) × 82mm (D) × 18mm (H) Receiver: 79.5mm (W) × 69mm (D) × 16.5mm (H)
Weight	HDMI Splitter: 628g   Receiver: 8 x 130g
Power Supply	12V/2.5A DC Power (US/EU standards, CE/FCC/RoHs certificated)
Power Consumption (Max)	19.2W
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



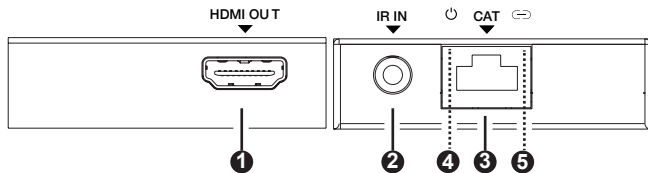
No.	Name	Function Description
1.	POWER LED	When the Transmitter is powered on, the red power LED will be on.
2.	CAT OUT (1-8)	Connect to the CAT port of the Receiver with a CAT6 cable.
3.	Power LED (Green)	Transmitter supports one-way POC function. When it supplies power to the Receiver through a CAT cable, the Power LED will be on.
4.	Data Signal Indicator (Yellow)	<b>Illuminating:</b> HDMI signal with HDCP. <b>Flashing:</b> HDMI signal without HDCP. <b>Dark:</b> 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.



# Operation Controls and Functions

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)	<b>Illuminating:</b> HDMI signal with HDCP. <b>Flashing:</b> HDMI signal without HDCP. <b>Dark:</b> No HDMI signal.

# Operation Controls and Functions

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

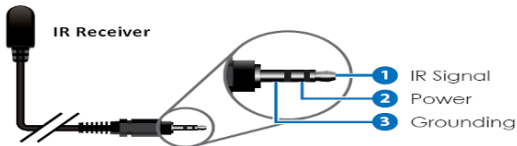
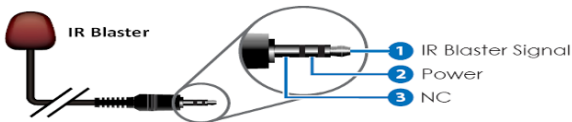


IR RECEIVER











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.**

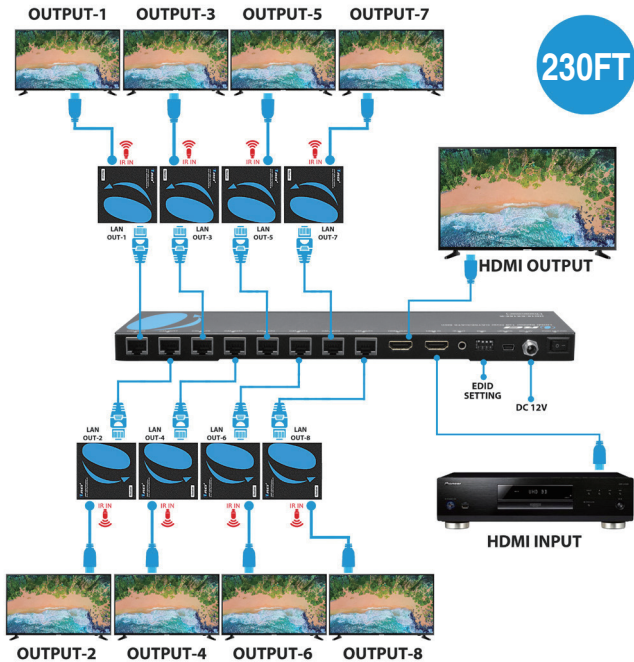
The defined EDID setting list of the product is shown as below:

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

**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.

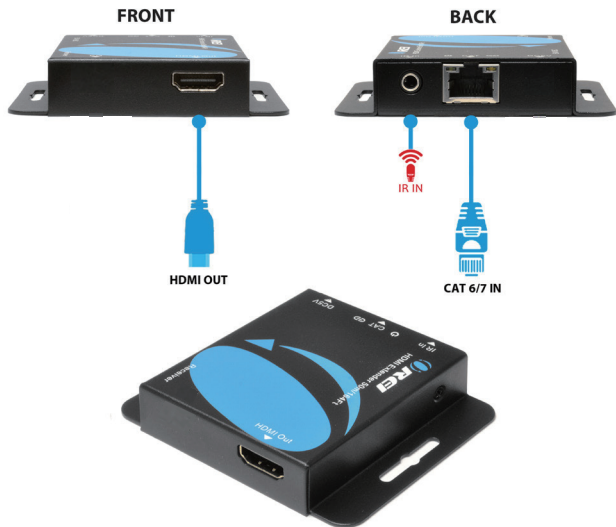
# Application Example





# Application Example

## RECEIVER





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