

VLSP-12CTH14

1x2 HDMI 1.4 Splitter over CAT 70m 10.2Gbps



User Manual

VER 1.0

Thank you for purchasing this product

Please read these instructions carefully for optimum performance and safety before connecting, operating, or adjusting this product. Please keep this manual for future reference

A surge protection device is recommended.

This product contains sensitive electrical components that electrical spikes may damage, surges, electric shocks, lightning strikes, etc. The use of surge protection systems is highly recommended to protect and extend the life of your equipment.

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1. Introduction

This HDMI 1x2 Splitter can distribute 1 HDMI source signal to any 2 display devices. Support video resolution up to 4K2K@30Hz 4:4:4. It is designed with 1 HDMI input, 1 HDMI loop output, and 2 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.

2. Features

- ☆ HDMI 1.4 and HDCP 1.4 compliant
- ☆ Video resolution up to 4K2K@30Hz (4:4:4) 8-bit
- ☆ Support audio formats: LPCM 7.1CH, Dolby True HD, and DTS-HD
 Master Audio
- ★ Extend the signal transmission distance up to 40m/131ft at the resolution
 of 4K30 or 70m/230ft at 1080P@60Hz via a single CAT6 cable
- ☆ Support 1 HDMI input, 1 HDMI loop output, and 2 CAT outputs
- ☆ Advanced EDID management
- ☆ Support 12V one-way POC function (only from transmitter to receiver)
- ☆ Compact design for easy and flexible installation

3. Package Contents

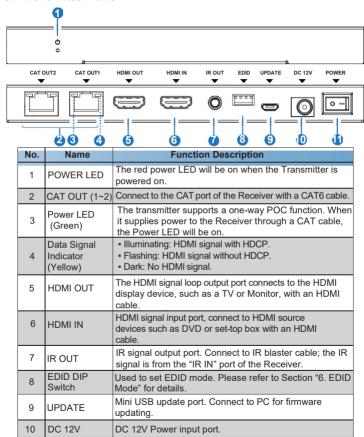
- 1 1 × HDMI 1×2 Splitter
- (2) 2 × CAT Receiver
- 3 1 × IR Blaster Cable (1.5 meters)
- (4) 2 × IR Receiver Cable (1.5 meters)
- (5) 2 × Mounting Ear
- 6 1 × 12V/1A DC Locking Power Adapter
- (7) 4 × Machine Screw (KM3*4)
- (8) 1 × User Manual

4. 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	
Audio Formats	LPCM 7.1CH, Dolby True HD, and DTS-HD Master Audio	
ESD Protection	Human body model—±8kV (Air-gap discharge) & ±4kV (Contact discharge)	
Connection		
Transmitter	Input: 1 × HDMI IN [Type A, 19-pin female] Outputs: 1 × HDMI OUT [Type A, 19-pinfemale] 2 × CAT OUT [RJ45] Controls: 1 × IR OUT [3.5mm Stereo Mini-jack] 1 × EDID DIP switch [4-pin] 1 × UPDATE [Micro USB]	
Receiver	Inputs: 1 x IR IN [3.5mm Stereo Mini-jack] 1 x CAT IN [RJ45, 8-pin female] Output: 1 x HDMI OUT [Type A, 19-pin female]	
Mechanical		
Housing	Metal Enclosure	
Color	Black	
Dimensions	Transmitter: 175mm (W) × 82mm (D) × 18mm (H) Receiver: 79.5mm (W) × 69mm (D) × 16.5mm (H)	
Weight	Transmitter: 366g; Receiver: 130g	
Power Supply	12V/1A DC Locking Power (US/EU standards, CE/FCC/RoHs certificated)	
Power Consumption	5.4W	
Operation Temp.	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)	

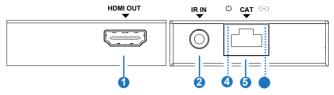
5. Operation Controls and Functions

5.1 Transmitter Panel



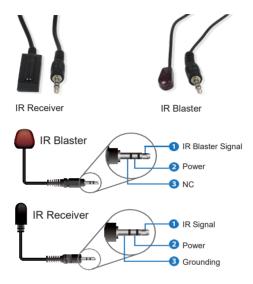
111	Press the switch to power on/off the device ("-" for on, "o" for off).

5.2 Receiver Panel



No.	Name	Function Description
1	HDMI OUT	HDMI signal output port. Connect to an HDMI display A device such as HDTV.
2	IR IN	Connect to the 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 the POC function, so the Receiver is powered by the Transmitter through a CAT cable.
5	Data Signal Indicator (Yellow)	Illuminating: HDMI signal with HDCP. Flashing: HDMI signal without HDCP. Dark: No HDMI signal.

5.3 IR Pin Definition



Note:

When the angle between the IR receiver and the remote control is \pm 45 $^{\circ}$, the transmission distance is 0-5 meters;

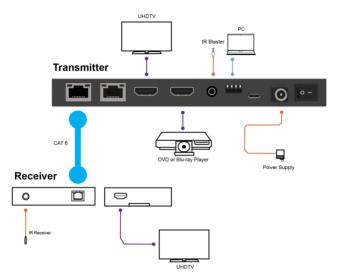
When the angle between the IR receiver and the remote control is $\pm\,90\,^\circ$, the transmission distance is 0-8 meters.

6. EDID Mode

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

EDID Mode	EDID Description
0000	1080P, 2CH AUDIO
0001	1080P, DOLBY/DTS5.1
0010	1080P, HD AUDIO
0011	1080i, 2CH AUDIO
0100	1080i, DOLBY/DTS5.1
0101	1080i, HD AUDIO
0110	3D,1080P, 2CH AUDIO
0111	3D,1080P, DOLBY/DTS5.1
1000	3D,1080P, HD AUDIO
1001	4K30, 2CH AUDIO
1010	4K30, DOLBY/DTS5.1
1011	4K30, HD AUDIO
1100	Copy Loop Out
1101	720p, 2CH AUDIO
1110	720p, DOLBY/DTS5.1
1111	720p, HD AUDIO

7. Application Example





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