DVDO





DVDO-CAT4K-Pair 4K@60 444 HDMI Extender

User Manual

Version: V1.0.0











Important Safety Instructions



 Do not expose this apparatus to rain, moisture, dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.



6. Clean this apparatus only with dry cloth.



Do not install or place this unit in a bookcase, built-in cabinet or in another confined space.Ensure the unit is well ventilated.



Unplug this apparatus during lightning storms or when unused for long periods of time.



3. To prevent risk of electric shock or fire hazard due to overheating, do not obstruct the unit's ventilation openings with newspapers, tablecloths, curtains, and similar items.



8. Protect the power cord from being walked on or pinched particularly at plugs.



4. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.



9. Only use attachments / accessories specified by the manufacturer.



5. Do not place sources of naked flames, such as lighted candles, on the unit.



10. Refer all servicing to qualified service personnel.



Table of Contents

Intro	oduction	5
	Overview	5
	Features	5
	Package Contents	6
	Specifications	6
	Panel Description	7
	Transmitter	7
	Receiver	8
Insta	allation and Wiring	9
Trou	ubleshooting	10
Warr	ranty Terms and Conditions	11



Introduction

Overview

Thank you for purchasing this product. For proper installation and optimum performance, please read the instructions in this manual carefully.

DVDO-CAT4K-Pair is a slim transmitter receiver set with HDCP 2.2 compatibility. It supports resolutions up to 4K@60Hz 4:4:4 8bit, and transmits UHD video, HD audio up to 35m/115ft over a Cat 6 or above cable. It also supports bi-directional PoC and one-way IR pass-through.

Features

- Supports video resolutions up to 4K@60Hz 4:4:4 8bit and HDCP 2.2.
- Over a Cat 6/6a/7 cable, transmits 4K@60Hz 4:4:4 8bit up to 35m/115ft.
- Over a Cat 5e/6/7 cable, transmits 1080P@60Hz up to 50m/164ft.
- Supports multichannel audio up to PCM 7.1, Dolby TrueHD and DTS-HD Master Audio.
- Supports one-way IR pass-through from receiver to transmitter.
- Supports bi-directional PoC, one power adapter at either transmitter or receiver side can power both units.
- Slim profile for easy installation.



Package Contents

Before you start the installation of the product, please check the package contents as below:

- DVDO-CAT4K-Pair Extender (Transmitter Receiver Set) x 1
- DC 12V 1A Power Supply (with US, UK, EU, AU Pins) x 1
- IR Emitter x 1
- IR Receiver (30 ~ 50kHz) x 1
- Mounting Brackets (with Screws) x 4
- User Manual x 1

Specifications

Video		
Input/Output Signal Type	HDMI 2.0b, HDCP 2.2, 3D	
Input/Output Resolution	Up to 4096x2160@60Hz, including	
Supported	4K@60Hz/4K@30Hz/1080P/1080i/720P	
Maximum Data Rate	HDMI: 18Gbps	
Maximum Pixel Clock	600MHz	
Audio format supported	Fully supports audio formats in HDMI 2.0 specification, including PCM, Dolby TrueHD, Dolby Atmos, DTS-HD Master Audio, DTS:X	

General		
Operating Temperature	0 °C to + 45°C (32°F to + 113 °F)	
Storage Temperature	-20 °C to +70°C (-4°F to +158 °F)	
Humidity	10% to 90%, non-condensing	
	Human Body Model:	
ESD Protection	±8kV (air-gap discharge)/	
	±4kV (contact discharge)	
Product Supply	DC 12V 1A	
Power Consumption (Max)	6.48W (Pair, PoC)	
Product Dimension	70mm × 15.2mm × 90mm / 2.76" × 0.60" ×	
FIOUUCI DIMENSION	3.54" (Each for TX/RX)	
Product Weight	0.15kg/0.33lb (Each for TX/RX)	



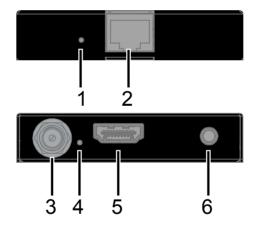
Transmission Distance

Note: T568B straight-through Category cable is recommended.

Cable Type	Range	Supported Video
Cat 5e/6	50m/164ft	1080P@60Hz
Cat 6a/7	50m/164ft	
	35m/115ft	4K@30 4:4:4
Cat 6/6a/7		4K@60 4:2:0
		4K@60 4:4:4
HDMI	Input/Output: 49ft/15m	4K@30Hz, 1080P@60Hz
וואוטוח	Input/Output: 16ft/5m	4K@60Hz 4:4:4

Panel Description

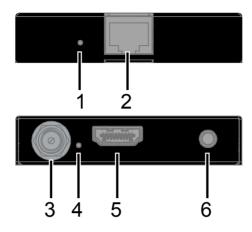
Transmitter



No.	Name	Description	
1	STATUS LED	Lights when there's HDMI input.	
2	UTP OUT	Connect transmitter to receiver via a Cat 5e/6/6a/7 cable.	
3	DC 12V	Connect to DC 12V power adapter provided.	
4	POWER LED	On: The device is powered on. Off: The device is powered off.	
5	HDMI IN	Connect to an HDMI source device.	
6	IR OUT	Connect to an IR emitter provided.	



Receiver

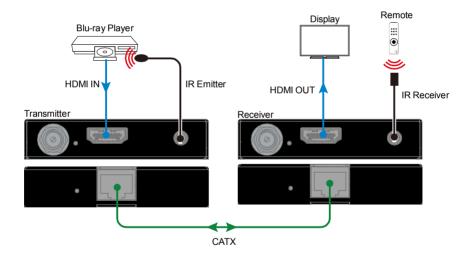


No.	Name	Description
1	STATUS LED	Lights when there's HDMI output.
2	UTP IN	Connect receiver to transmitter via a Cat 5e/6/6a/7 cable.
3	DC 12V	Connect to DC 12V power adapter provided.
4 POWER LED		On: The device is powered on.
		Off: The device is powered off.
5	HDMI OUT	Connect to an HDMI display.
6	IR IN	Connect to an IR receiver provided.



Installation and Wiring

- Connect the HDMI source (such as Blu-ray player, Apple TV, 4K media player, etc) to HDMI IN port of the transmitter respectively.
- 2. Connect the UTP OUT of the transmitter to the UTP IN of the receiver via a qualified CAT5e/6/6a/7 cable.
- Connect the HDMI display device (such as TV) to the HDMI OUT of the receiver.
- Connect the provided IR emitter to IR OUT port of the transmitter, and connect the provided IR receiver to IR IN port of the receiver.
- Connect the provided DC 12V power supply to the transmitter or receiver.
 With bi-directional PoC function, one power adapter is needed to power both transmitter and receiver.





Troubleshooting

1. No Power

- Ensure the power is on.
- Ensure you use the power adapter provided in the package.

2. No Picture or Video Flash

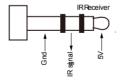
- Ensure all devices are on, and all cables are qualified and connected properly. Ensure all the cables' length are within the maximum distance (refer to Specification table).
- Ensure all the LED indicators are normal.
- When connecting source to display directly, ensure them can work properly.
- Ensure the input resolution is supported by the device.

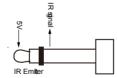
3. Weak or Not Working IR Signal

- Ensure the devices support IR control (not Bluetooth/WIFI).
- Ensure you use the IR cables provided in the package, and install them correctly according to the Application Diagram.
- Pay attention to the control angle and distance.

IR Cable	IR Emitter	IR Receiver
Suggested Angle	0°	0°
Distance (Max)	30cm	8m

 When work with the third-party device, ensure it follows the pin definition below.







Warranty Terms and Conditions

For the following cases we shall charge for the service(s) claimed for the products if the product is still remediable and the warranty card becomes unenforceable or inapplicable.

- The original serial number (specified by us) labeled on the product has been removed, erased, replaced, defaced or is illegible.
- 2. The warranty has expired.
- 3. The defects are caused by the fact that the product is repaired, dismantled or altered by anyone that is not from an authorized service partner. The defects are caused by the fact that the product is used or handled improperly, roughly or not as instructed in the applicable User Guide.
- 4. The defects are caused by any force majeure including but not limited to accidents, fire, earthquake, lightning, tsunami and war.
- The service, configuration and gifts promised by salesman only but not covered by normal contract.
- 6. We preserve the right for interpretation of these cases above and to make changes to them at any time without notice.

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