DVDO





DVDO-Xtend-Pair40

4K@60Hz 420 HDBaseT 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

Introduction	
Features	
Package Contents	
Specifications	
Panel Description	6
Front Panel	6
Rear Panel	6
Installation and Wiring	8
RS232 Operation	9
Troubleshooting	10
Warranty Terms and Conditions	11



Introduction

DVDO-Xtend-Pair40 is a slim transmitter receiver pair, which can extend HDMI 1080P@60Hz signals up to 70m/230ft and 4K@60Hz (chroma sub-sampling 4:2:0 8-bit only) signals up to 40m/130ft via a single Cat 6a/7 cable. DVDO-Xtend-Pair40 features bi-directional PoC. It also supports bi-directional IR and RS232 pass-through.

Features

- Supports resolutions up to 4K@60Hz 4:2:0 8bit and HDCP 2.2.
- Over a Cat 6a/7 cable, extends 4K@60Hz 4:2:0 8bit up to 40m/130ft and 1080P up to 70m/230ft.
- Over a Cat 5e/6 cable, extends 4K@60Hz 4:2:0 8bit up to 35m/115ft and 1080P up to 60m/200ft.
- Bi-directional PoC, one power adapter at either transmitter or receiver side can power both units.
- Supports bi-directional IR and RS232 pass-through.

Package Contents

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

- DVDO-Xtend-Pair40 (Transmitter Receiver Set) x 1
- DC 18V 1A Power Adapter (with US, UK, EU, AU Pins) x 1
- IR Emitter x 1
- Broadband IR Receiver (30-50 KHz) x 1
- Phoenix Male Connectors (3.5mm, 3 Pins) x 2
- Mounting Brackets (with Screws) x 4
- User Manual x 1



Specifications

Technical	
Input/Output Signal Type	HDMI with 4K@60Hz 4:2:0, HDCP 2.2
Input/Output Resolution Supported	Up to 4096x2160@60Hz, including 4K@60Hz/ 4K@30Hz/1080P/1080i/720P Note: 4096x2160/3840x2160@50/60Hz is based on chroma sub-sampling 4:2:0 8-bit only.
Deep color	4K: 8/10/12 bit1080P: up to 16 bit
Maximum Data Rate	10.2 Gbps
Maximum Pixel Clock	340MHz
Audio Format Supported	Supports multichannel audio up to PCM 7.1, Dolby True HD, DTS HD Master Audio, Dolby Atmos and 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
ESD Protection	±8kV (Air-gap discharge)/ ±4kV (Contact discharge)
Power Supply	DC 18V 1A
Power Consumption (Max)	8.88W (Pair, PoC)
Device Dimensions	108.8mm x 15mm x 64.2mm/
(W x H x D)	4.3" x 0.6" x 2.5" each for TX/RX
Product Weight	0.18kg/0.4lb each for TX/RX

Transmission Distance

Note: The use of T568B straight-through Category cables is recommended.

Cable Type Range		Supported Video	
	Input/Output:15m/50ft	1080P@60Hz	
HDMI	Input: 10m/33ft Output: 15m/50ft	4K@60Hz	
Cat 5e/6	60m/200ft	1080P@60Hz	
Cat Se/6	35m/115ft	4K@60Hz	
Cot 60/7	70m/230ft	1080P@60Hz	
Cat 6a/7	40m/130ft	4K@60Hz	



Panel Description

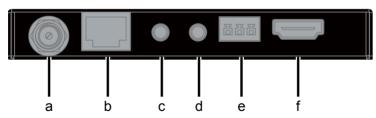
Front Panel



No.	Name	Description
1	Power LED	On/Off: The device is powered on/off.
2	Status LED	 On: The device is working properly. Off: The device is not working properly.
3	HDCP LED	 On: HDCP protected content is being transmitted. Blinking: Non-HDCP protected content is being transmitted. Off: No content is being transmitted.
4	Link LED	On: HDBT link is normal.Blinking/Off: No HDBT link or link error.

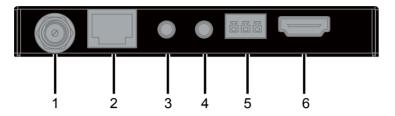
Rear Panel

Transmitter





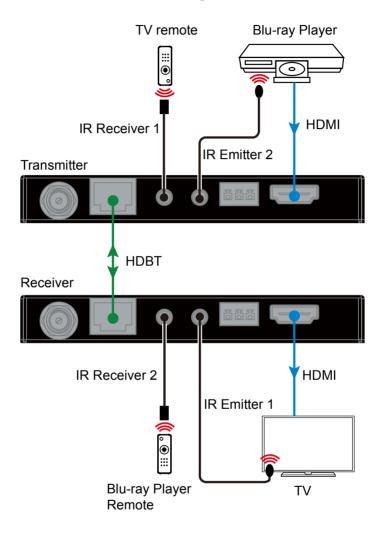
Receiver



No.	Name	Description
a & 1	DC 18V	Connect to the power adapter.
b	HDBT OUT	Connect to the receiver via a Cat 5e/6/7 cable.
c & 3	IR IN	Connect to the IR receiver provided.
d & 4	IR OUT	Connect to the IR emitter provided.
e & 5	RS232	For RS232 pass-through.
f	HDMI IN	Connect to an HDMI source device.
2	HDBT IN	Connect to the transmitter via a Cat 5e/6/7 cable.
6	HDMI OUT	Connect to an HDMI display device.



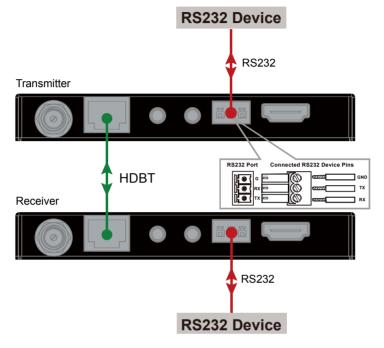
Installation and Wiring





RS232 Operation

RS232 ports can be used for bi-directional RS232 signal pass-through between the transmitter and receiver.





Troubleshooting

1. No Power

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

2. No Picture or Video Flash

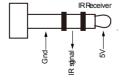
- Ensure all devices are powered on, and all cables are qualified and connected properly. Ensure all the cables' lengths are within the maximum transmission distance (refer to Specification table).
- Ensure all the LED indicators are normal.
- When connecting source to display directly, ensure them can work properly.
- Ensure the input resolution is supported by the device.
- Ensure the input resolution is within 4K@30Hz when Dolby vision signal is input.

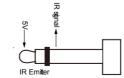
3. Weak or Not Working IR Signal

- 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 wiring 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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