




# DVDO Xtend-Pair150 HDMI 150m Extender with Loopout User Manual

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# DVDO

DVDO Xtend-Pair150 HDMI 150m Extender with Loopout



Thank you for purchasing the DVDO-Xtend-Pair150 HDMI 150m Extender with Loopout. This product can extend HDMI signals over500 feet/150 meters to an HDMI compatible display via a single Cat5e/6 cable. It also supports bi-directional Infrared control signal and RS-232 transmission together with HDMI signal, which allows you to easily control your DVD player at TV side or control your TV at the DVD player side when using this extender.

**Thank you for purchasing this product**

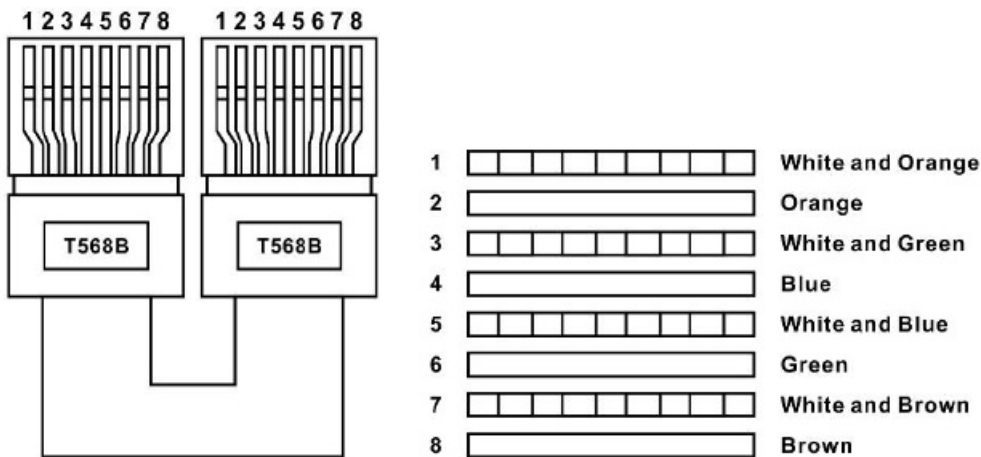
For optimum performance and safety, please read these instructions carefully before connecting, operating, or adjusting this product. Please keep this manual for future reference.

**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 life of your equipment.

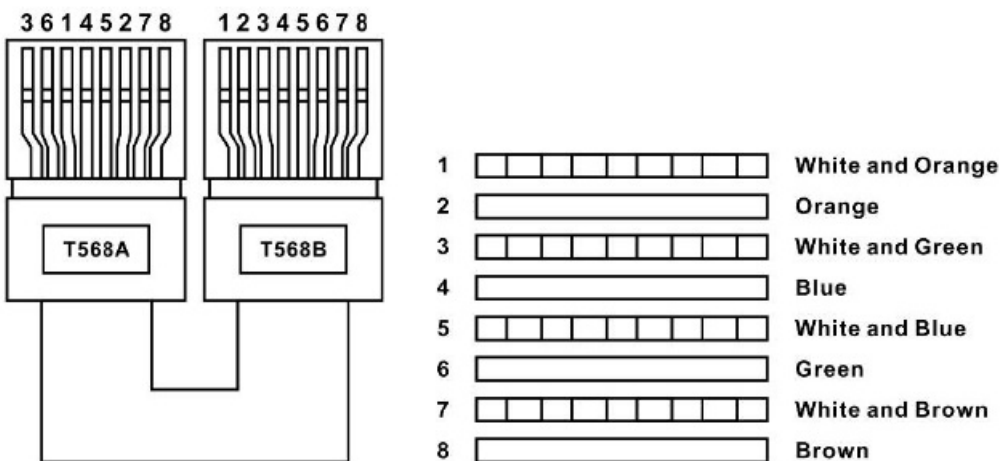
**Caution**

The extender requires direct interconnection method CAT cable.



**Direct interconnection method**

The extender will go into protection mode automatically with no video output when using cross interconnection method CAT cable.



**Cross interconnection method**

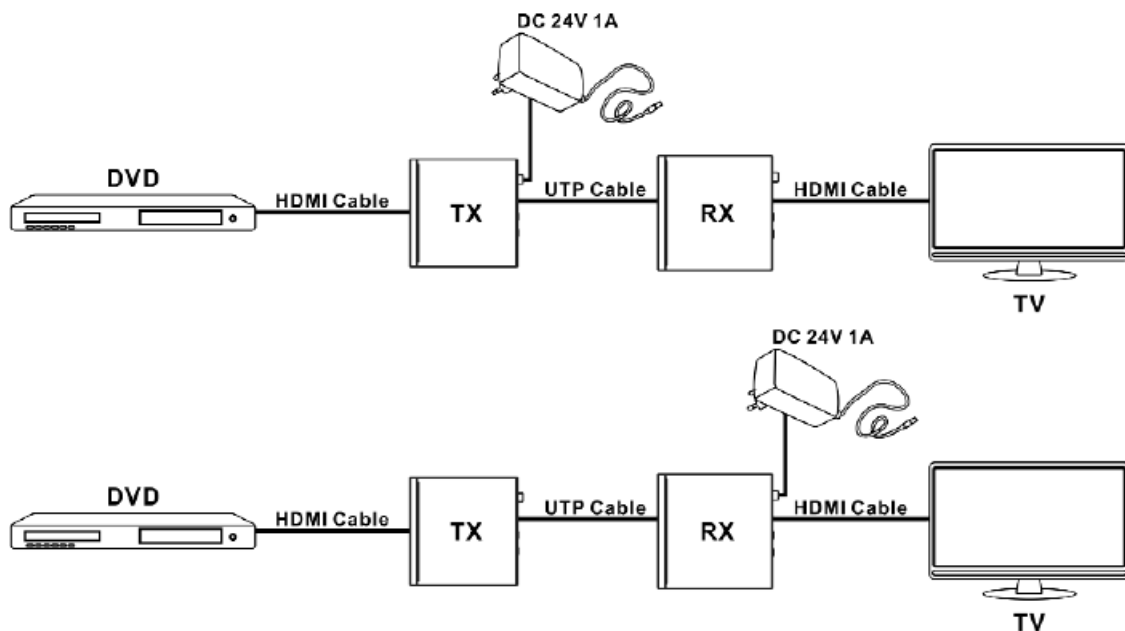
**Introduction**

The HDMI Extender with Loopout can extend HDMI signals over 500 feet / 150 meters to an HDMI compatible display via single Cat5e/6 cable. It also supports bi-directional Infrared control signal and RS-232 transmission together with HDMI signal, it can allow you to easily control your DVD player at TV side or control your TV at the DVD player side when using this extender.

## Features

- HDMI 1.4, HDCP 1.4 and DVI compliant
- Video resolutions up to 1080p@60Hz (YUV4:4:4)
- HDMI High Bit Rate (HBR) audio pass through
- 150 meters transmission distance over CAT6 cable
- POC (Power over Cable), either TX or RX is powered by one 24V@1A power supply

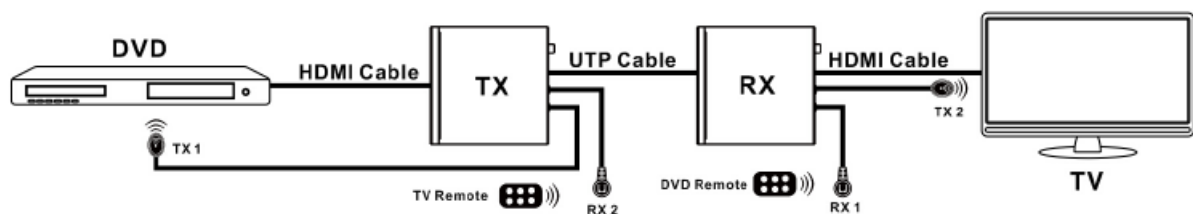
※ See description 1



- Bi-directional infrared control signal transmission

※ See description 2

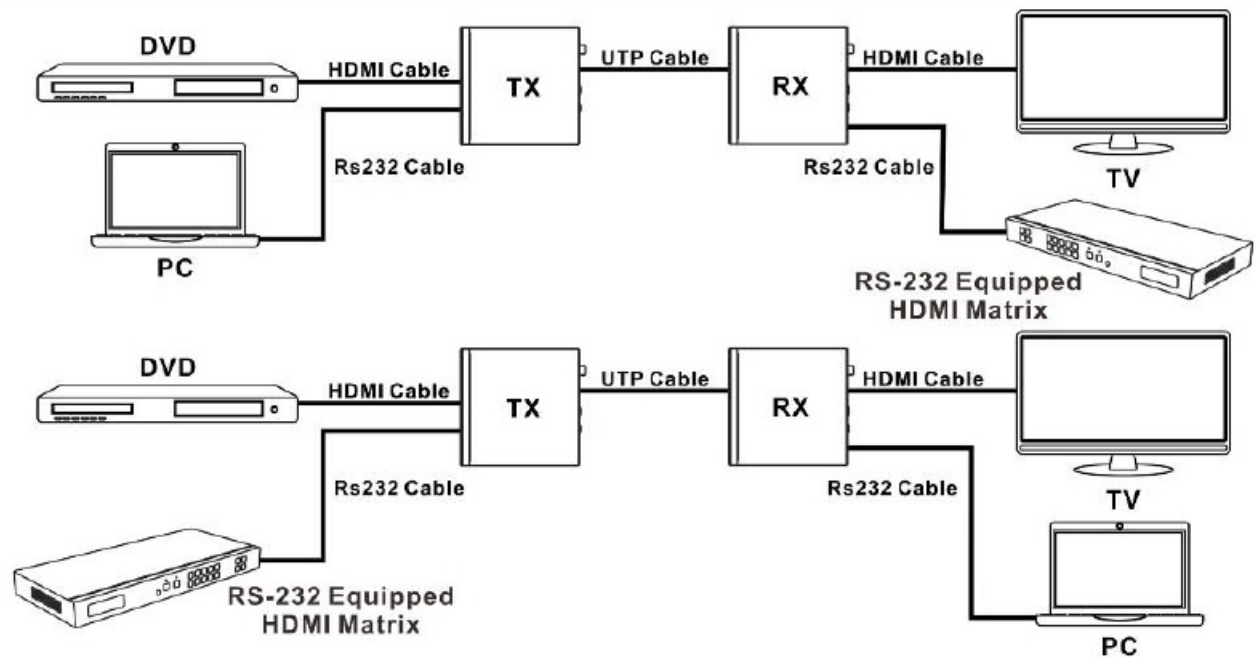
### Bidirectional Infrared Control Application Example



- Bi-directional RS-232 signal transmission

※ See description 3

## Bidirectional RS232 control Application Example



## Package Contents

- 1 x HDMI Extender Transmitter
- 1 x HDMI Extender Receiver
- 1 x Wideband IR Emitter cable
- 1 x Wideband IR Receiver cable
- 1 x 24V/1A Power Adaptor
- 1 x User Manual

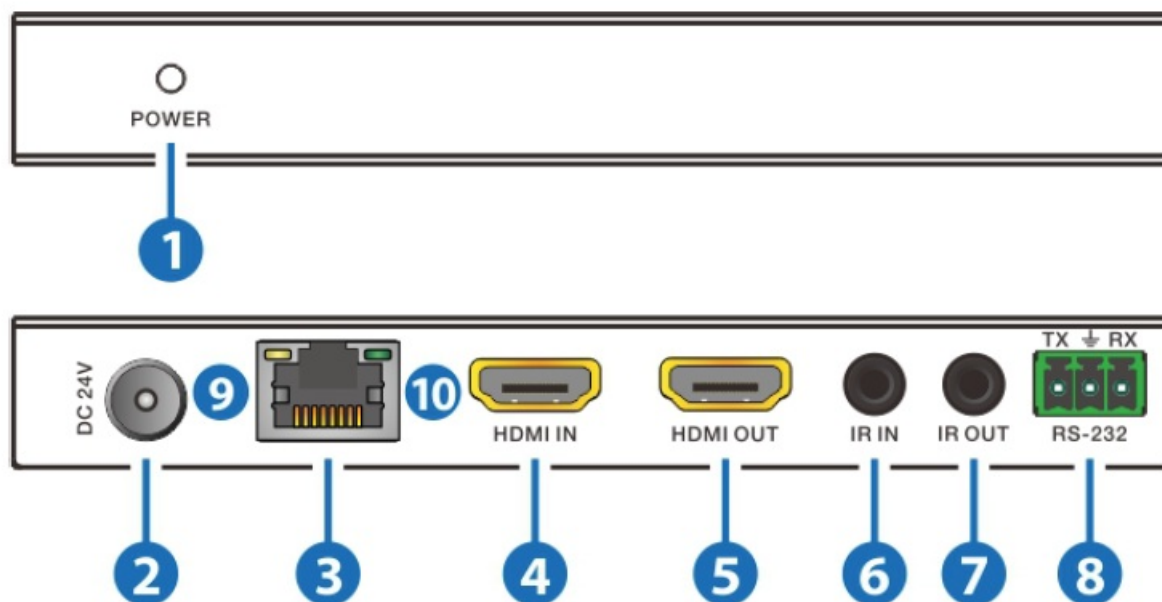
## Specifications

| Technical                        |   |
|----------------------------------|---|
| HDMI Compliance                  | HDMI 1.4  |
| HDCP Compliance                  | HDCP 1.4  |
| Video Bandwidth                  | 225MHz  |
| Video Resolutions                | up to1080P @60Hz YUV4:4:4 RGB4:4:4  |
| Color Space                      | RGB, YUV4:4:4, YUV 4:2:2  |
| Color Depth                      | 8-bit   |
| HDMI Audio Formats (Passthrough) | LPCM 2/5.1/7.1CH, Dolby Digital, DTS 5.1, Dolby Digital+, Dolby True HD, DTS-HD Master Audio, Dolby Atmos, DTS:X  |
| ESD Protection                   | Human body model — ±8kV (air-gap discharge) & ±4kV (contact discharge)  |
| Connections                      |   |
| Inputs                           | <p>Transmitter :1x HDMI Type A [19-pin female]</p> <p>1x IR INPUT [3.5mm Stereo Mini-jack] 1x RS232 [Phoenix jack]</p> <p>Receiver: 1x HD BaseT In [RJ45]</p> <p>1x IR INPUT [3.5mm Stereo Mini-jack] 1x RS232 [Phoenix jack]</p> |
| Outputs                          | <p>Transmitter : 1x HD BaseT Out [RJ45]</p> <p>1x HDMI Type A [19-pin female]</p> <p>1x IR OUTPUT [3.5mm Stereo Mini-jack]</p> <p>Receiver: 1x HDMI Type A [19-pin female]</p>  |

|                              |  |
|------------------------------|--|
|                              | 1x IR OUTPUT [3.5mm Stereo Mini-jack]                    |
| <b>Mechanical</b>            |  |
| <b>Housing</b>               | Metal Enclosure  |
| <b>Color</b>                 | Black  |
| <b>Dimensions</b>            | 140mm [W] x 65mm [D] x 18mm [H]                          |
| <b>Weight</b>                | 481g   |
| <b>Power Supply</b>          | Input: AC100 – 240V 50/60Hz                              |
|                              | Output: DC 24V/1A (US/EU standards, CE/FCC/UL certified) |
| <b>Power Consumption</b>     | 6W   |
| <b>Operation Temperature</b> | 32 – 104°F / 0 – 40°C                                    |
| <b>Storage temperature</b>   | -4 – 140°F / -20 – 60°C                                  |
| <b>Relative Humidity</b>     | 20 – 90% RH (no condensation)                            |

## Operation Controls and Functions

### Transmitter



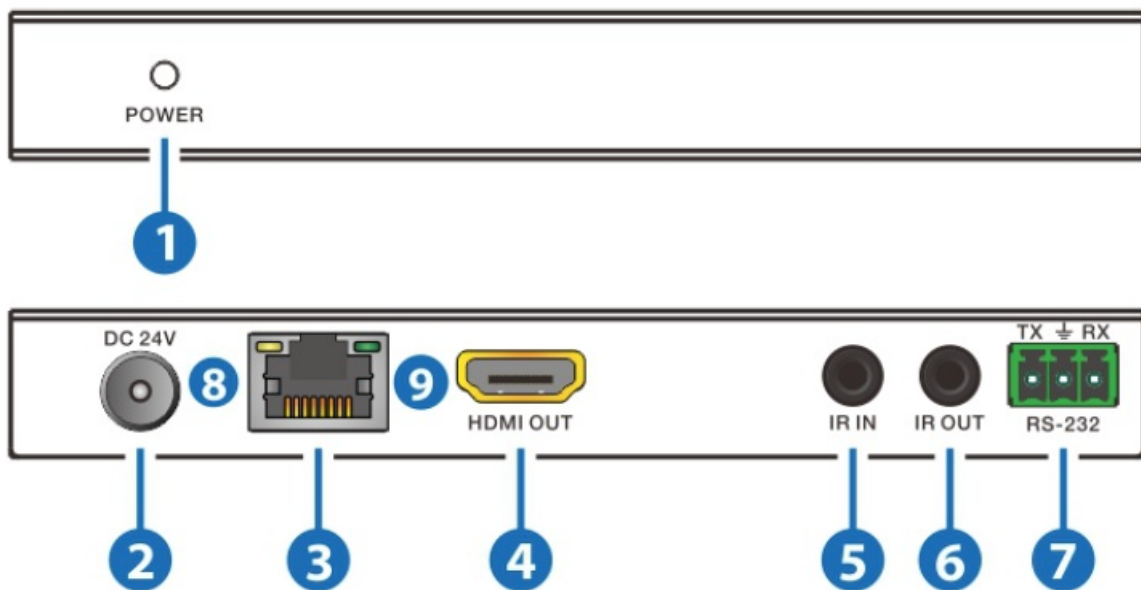
1. **Power:** System power indicator.
2. **DC 24V:** Connect 24V/1A adaptor to AC wall outlet for power supply.
3. **HDBaseT Out:** Standard HDBaseT output port. Connect HDBaseT receiver with a UTP cable following the standard of direct interconnection method.
4. **HDMI In:** Connect to HDMI source device such as Blu-ray or gaming console. 5. **HDMI OUT:** Connect to HDTV or monitor HDMI input port.
5. **IR In:** Channel 2 IR Receiver. Connect to an IR receiver cable.

6. **IR Out:** Channel 1 IR Transmitter. Connect to an IR emitter cable.
7. **RS-232:** Phoenix jack for serial port control from transmitter to receiver.
8. **Connection Signal Indicator Lamp**
  - **Illuminated:** Transmitter and Receiver are in good connection status
  - **Flashing:** Transmitter and Receiver are in poor connection status.
  - **Dark:** Transmitter and Receiver are not connected.

#### 9. Data Signal Indicator Lamp

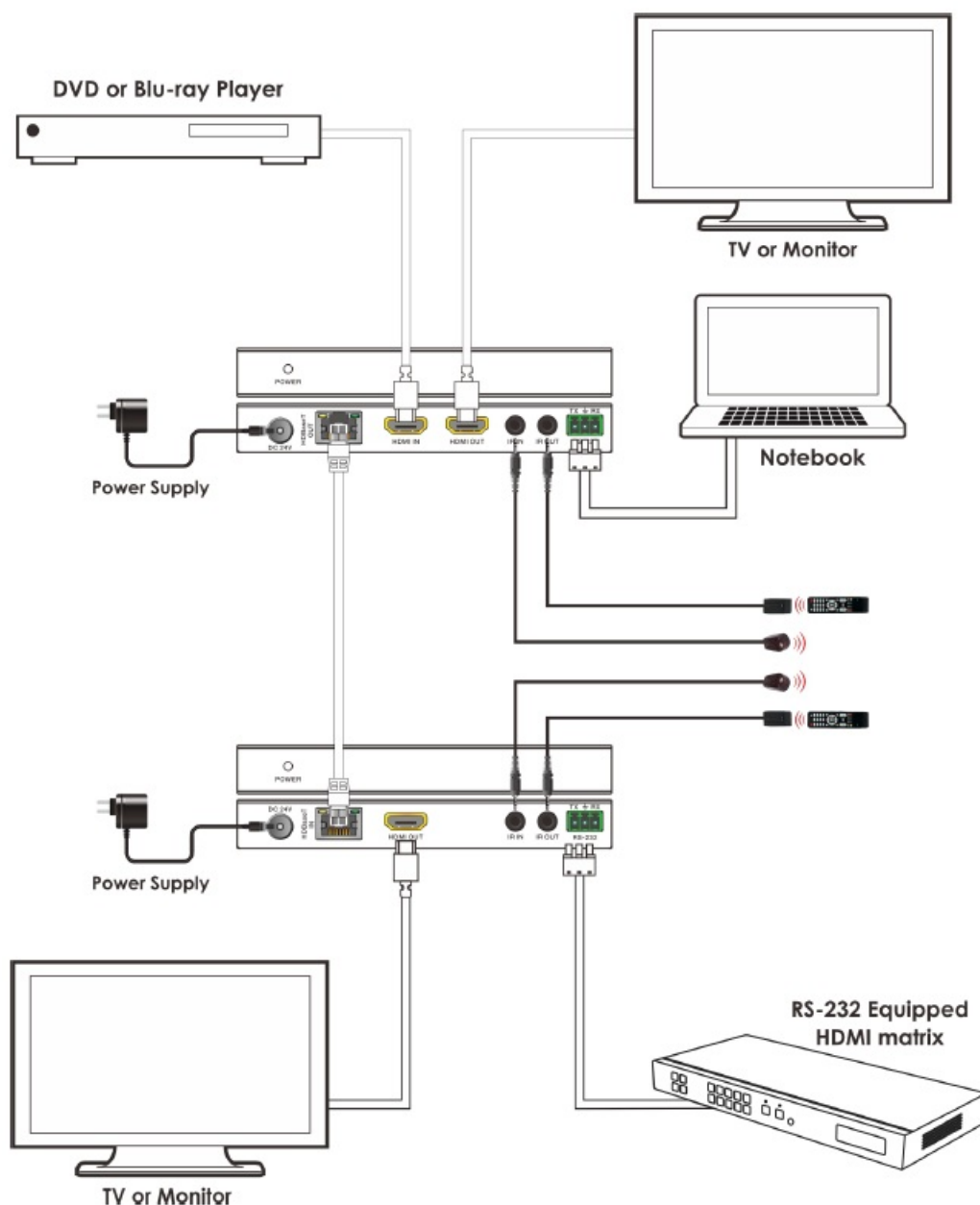
- **Illuminated:** HDMI signal with HDCP.
- **Flashing:** HDMI signal without HDCP.
- **Dark:** No HDMI signal.

### Receiver




1. **Power:** System power indicator.
2. **DC 24V:** Connect 24V/1A adaptor to AC wall outlet for power supply.
3. **HDBaseT In:** Standard HDBaseT input port. Connect HDBaseT Transmitter with a UTP cable following the standard of direct interconnection method.
4. **HDMI Out:** Connect to the HDTV or monitor HDMI input port.
5. **IR In:** Channel 1 IR Receiver. Connect to an IR receiver cable.
6. **IR Out:** Channel 2 IR Transmitter. Connect to an IR emitter cable.
7. **RS-232:** Phoenix jack provide Serial port control signal from transmitter to receiver.
8. **Connection Signal Indicator Lamp**
  - **Illuminated:** Transmitter and Receiver are in good connections status.
  - **Flashing:** Transmitter and Receiver are in poor connections status.
  - **Dark:** Transmitter and Receiver are not connected.
9. **Data Signal Indicator Lamp**
  - **Illuminated:** HDMI signal with HDCP.
  - **Flashing:** HDMI signal without HDCP.
  - **Dark:** No HDMI signal.

## Connection Diagram



## Documents / Resources

|  |   |
|--|---|
| <p><b>DVDO</b></p>  <p>DVDO Xtend-Pair150<br/>HDMI 150m Extender with Loopout</p> | <p><a href="#">DVDO Xtend-Pair150 HDMI 150m Extender with Loopout</a> [pdf] User Manual<br/>Xtend-Pair150 HDMI 150m Extender with Loopout, Xtend-Pair150, HDMI 150m Extender with Loopout, 150m Extender with Loopout, Extender with Loopout, Loopout</p> |
|--|---|