OREI EX-500IR HDMI 150m Extender with Loopout User Manual

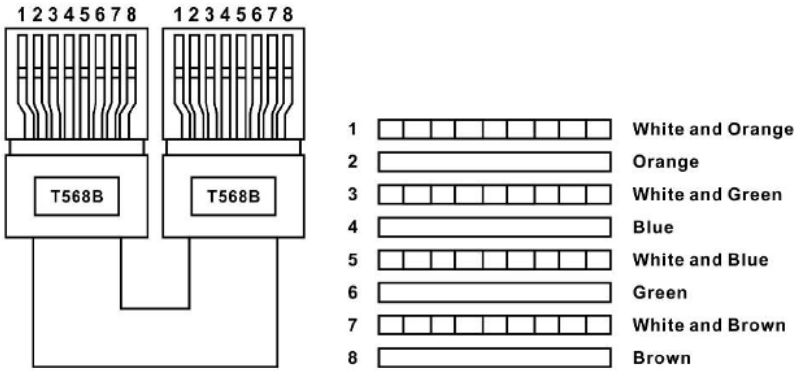
Contents

OREI EX-500IR HDMI 150m Extender with Loopout

Thank you for purchasing this product
For optimum performance and safety, please read these instructions care-fully before connecting, operating or adjusting this product. Please keep this manual for future reference.

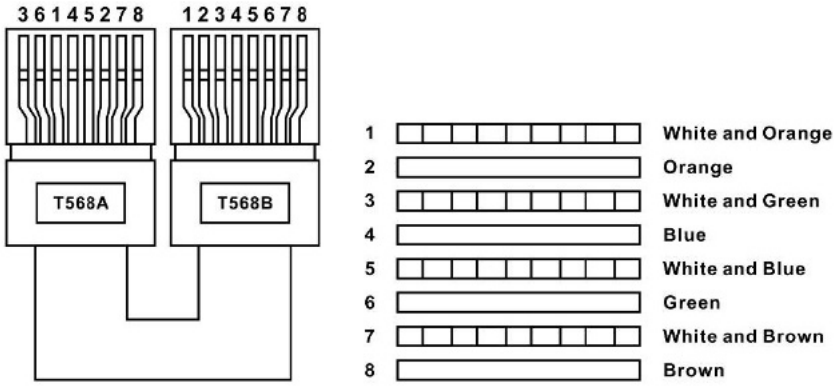
A surge protection device recommended
This product contains sensitive electrical components that may be damaged by electrical spikes, surges, electric shock, lightning strikes, etc. Use of surge protection systems is highly recommended in order to protect and extend the life of your equipment.

Caution
The extender need to follow direct interconnection method CAT cable.



Direct interconnection method

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



Cross interconnection method

Introduction

The HDMI Extender with Loopout can extend HDMI signal 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 the description 1
- Bi-directional infrared control signal transmission
    - See the description 2
- Bi-directional RS-232 signal transmission
    - See the description 3

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

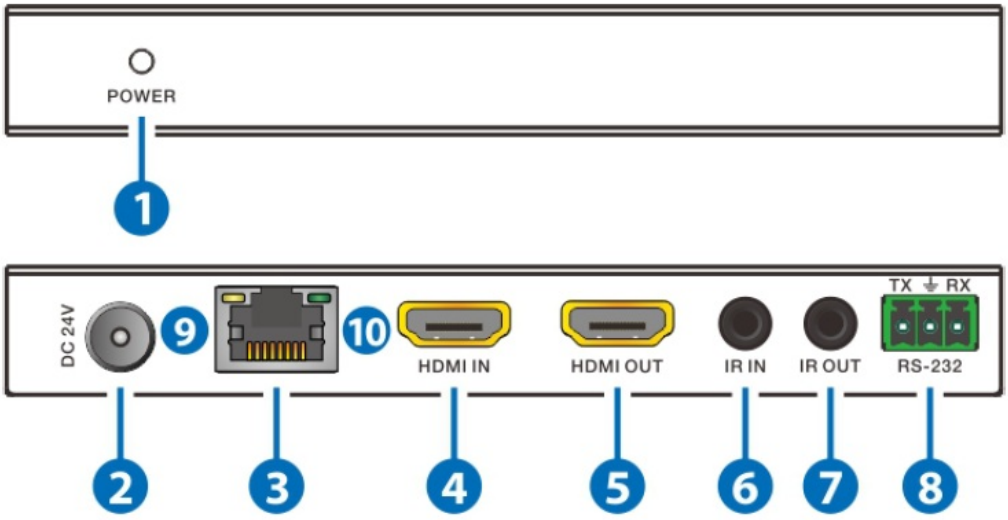
Technical	
HDMI Compliance	HDMI 1.4
HDCP Compliance	HDCP 1.4
Video Bandwidth	225MHz
Video Resolutions	up to1080P @60Hz YUV4:4:4 RGB4:4:4
Color Space	RGB, YUV4:4:4, YUV 4:2:2
Color Depth	8-bit
HDMI Audio Formats (Pass-through)	LPCM 2/5.1/7.1CH, Dolby Digital, DTS 5.1, Dolby Digital+, Dolby True HD, DTS-HD Master Audio, Dolby Atmos, DTS:X

ESD Protection	Human body model — ±8kV (air-gap discharge) & ±4kV (contact discharge)
Connections	
Inputs	Transmitter :1x HDMI Type A [19-pin female] 1x IR INPUT [3.5mm Stereo Mini-jack] 1x RS232 [Phoenix jack] Receiver: 1x HD BaseT In [RJ45] 1x IR INPUT [3.5mm Stereo Mini-jack] 1x RS232 [Phoenix jack]
Outputs	Transmitter : 1x HD BaseT Out [RJ45] 1x HDMI Type A [19-pin female] 1x IR OUTPUT [3.5mm Stereo Mini-jack] Receiver: 1x HDMI Type A [19-pin female] 1x IR OUTPUT [3.5mm Stereo Mini-jack]
Mechanical	
Housing	Metal Enclosure
Color	Black
Dimensions	140mm [W] x 65mm [D] x 18mm [H]
Weight	481g

Power Supply	Input: AC100 – 240V 50/60Hz Output: DC 24V/1A (US/EU standards, CE/FCC/UL certified)
Power Consumption	6W
Operation Temperature	32 – 104°F / 0 – 40°C
Storage temperature	-4 – 140°F / -20 – 60°C
Relative Humidity	20 – 90% RH (no condensation)

Operation Controls and Functions

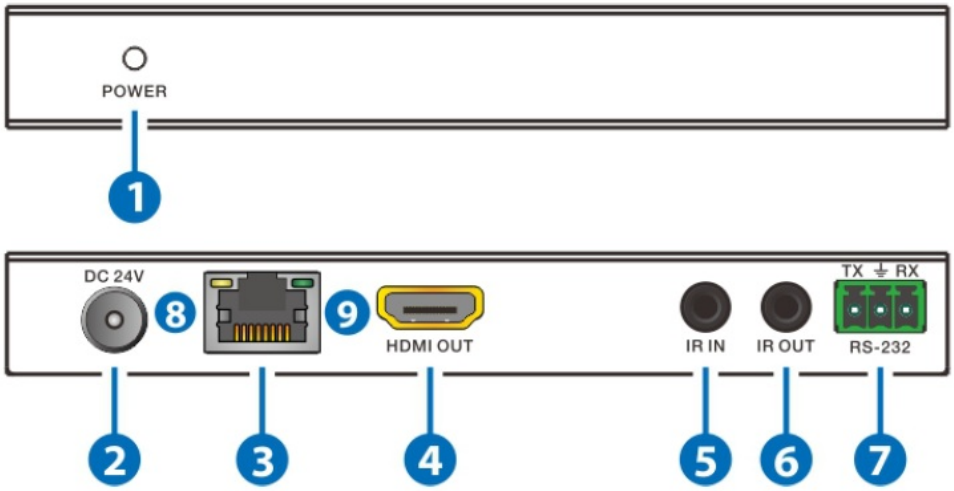
Transmitter



1. Power: System power indicator.
2. DC 24V: Connect 24V/1A adaptor to AC wall outlet for power
3. HDBaseT Out: Standard HDBaseT output port. Connect the HDBaseT receiver with a UTP cable following the standard of the direct interconnection method.
4. HDMI In: Connect to HDMI source devices such as Blu-ray or PS4 player.
5. HDMI OUT: Connect to HDTV or monitor HDMI input port.
6. IR In: Channel 2 IR Receiver. Connect to an IR receiver cable.

7. IR Out: Channel 1 IR Transmitter. Connect to an IR emitter cable.
   RS-232: Phoenix jack provide serial port control from transmitter to receiver.
8. Connection Signal Indicator Lamp
   - Illuminate: The Transmitter and Receiver are in good connections status.
   - Flashing: The Transmitter and Receiver are in poor connections status.
   - Dark: The Transmitter and Receiver are not connected.
9. Data Signal Indicator Lamp
   - Illuminate 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
7. RS-232: Phoenix jack provide Serial port control signal from transmitter to receiver.
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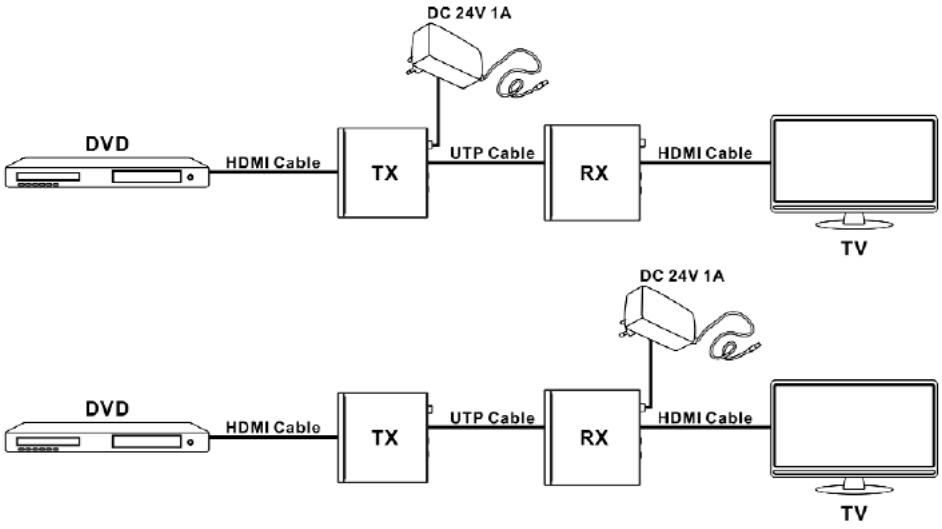
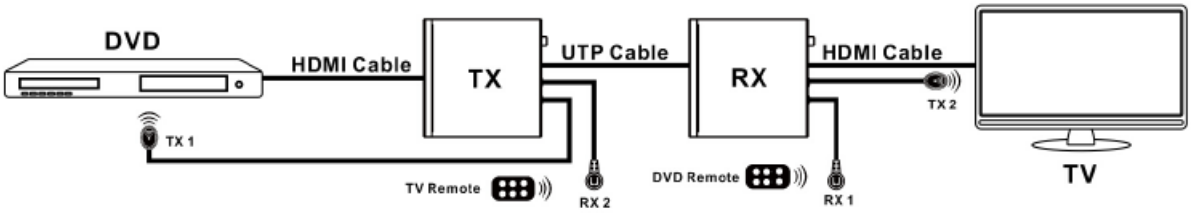
Description 1

POC (Power over Cable) Application Example



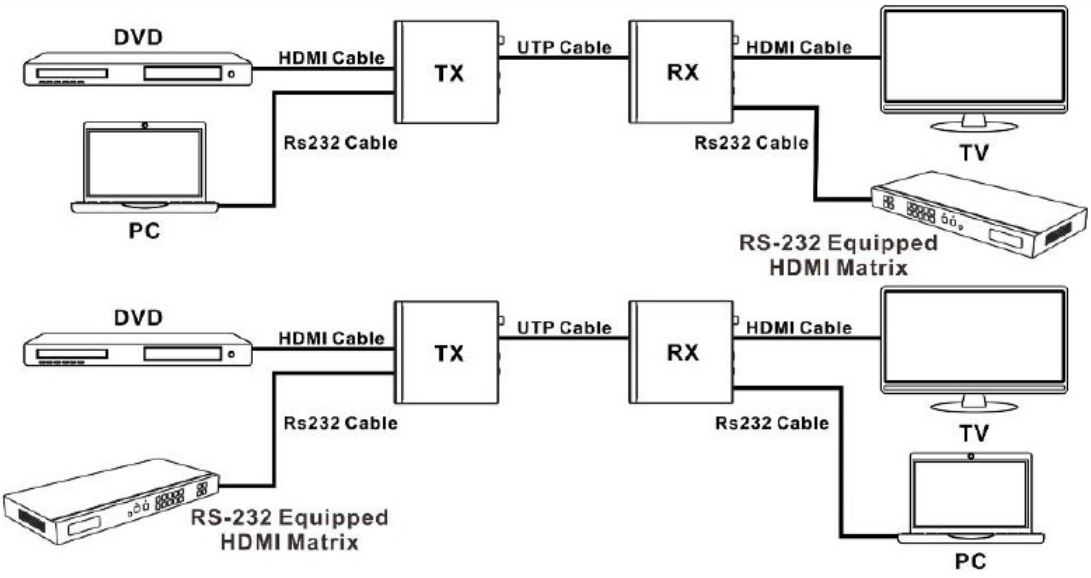
Description 2

Bidirectional Infrared control Application Example

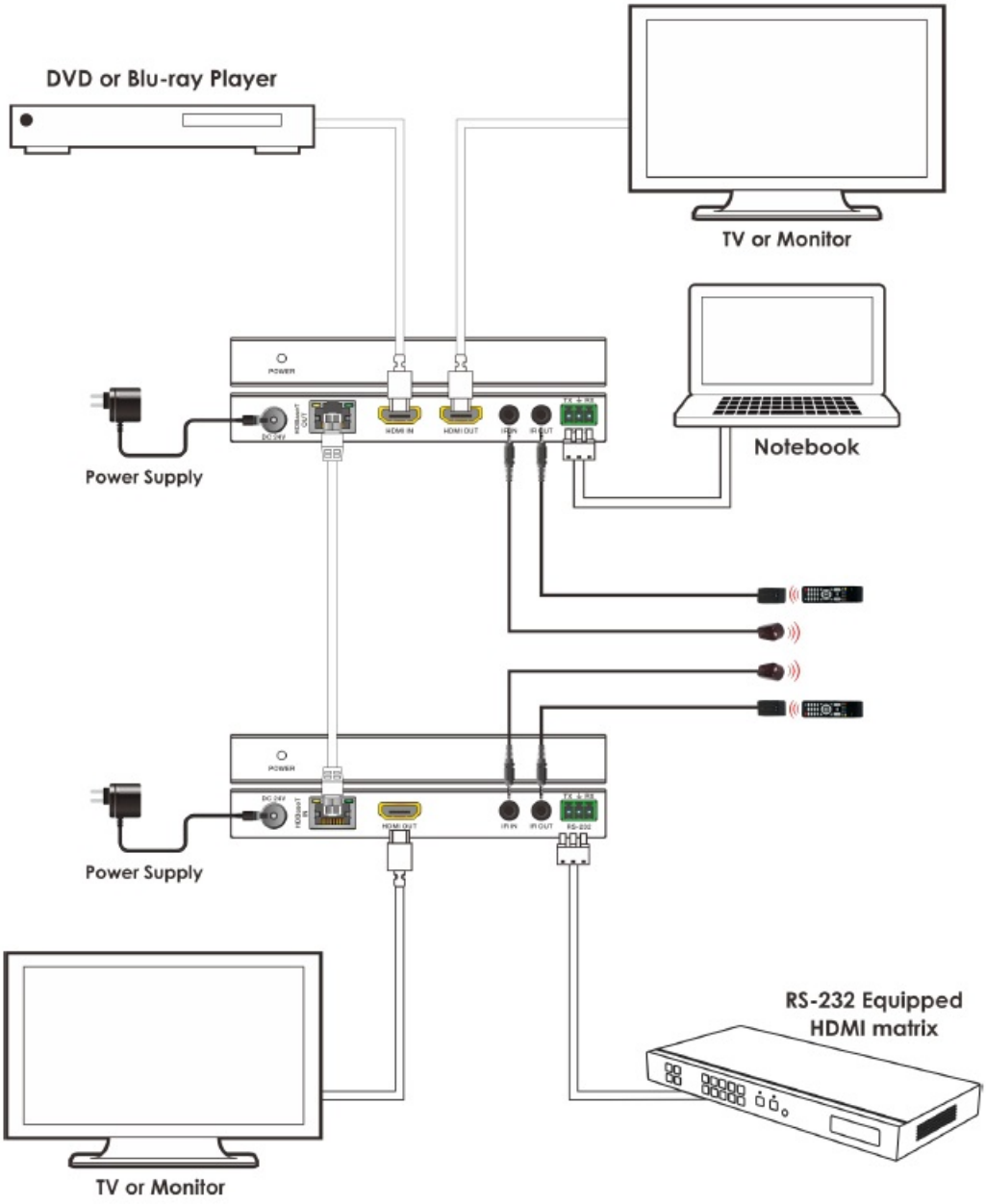


Description 3

Bidirectional RS232 control Application Example



Connection Diagram



Documents / Resources

	OREI EX-500IR HDMI 150m Extender with Loopout [pdf] User Manual EX-500IR HDMI 150m Extender with Loopout, EX-500IR, HDMI 150m Extender with Loopout