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EGE-FHD-HDB-EXTL

150m, Full HD-8bit Support, HDBase-T Lite Extender

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Thank you for purchasing this product

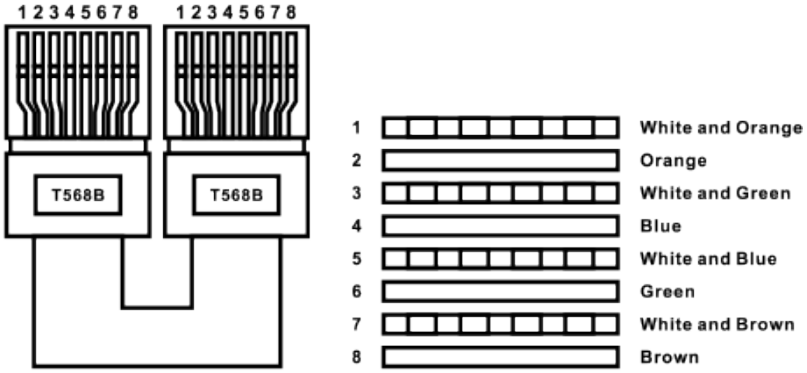
For optimum performance and safety, please read these instructions carefully before connecting, operating or adjusting this product. Please keep this manual for future reference.

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.

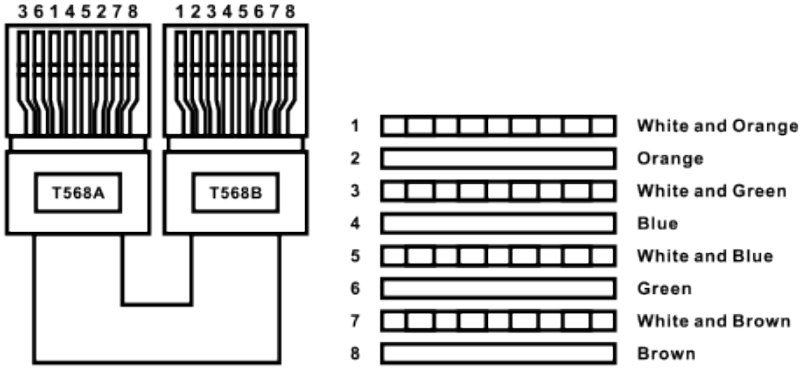
CAUTION

The extender 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

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1. INTRODUCTION

The HDMI Extender can extend HDMI signal over 500 feet/150 meters to an HDMI compatible display via signal 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.

2. 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

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

4. SPECIFICATIONS

Technical	
HDMI Compliance	HDMI 1.4
HDCP Compliance	HDCP 1.4
Video Bandwidth	148.5 MHz
Video Resolutions	up to 1080P@60Hz YUV4:4:4, RGB4:4:4
Color Space	RGB, YUV4:4:4, YUV4:2:2
Color Depth	8-bit
HDMI Audio Formats (Pass-through)	LPCM 2/7.1/7.1CH, 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)

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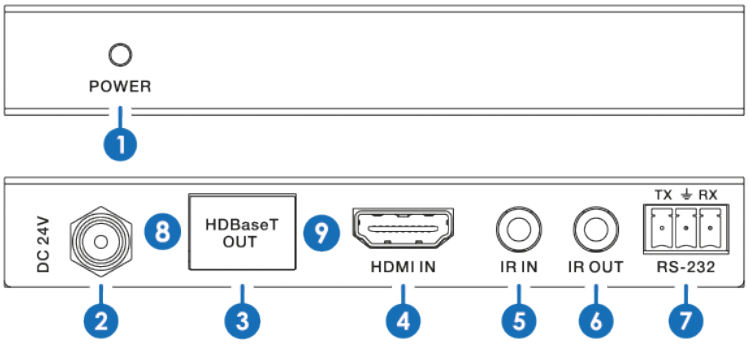
Cennections	
Inputs	Transmitter: 1xHDMI Type A [19-pin female] 1xIR INPUT [3.5mm Stereo Mini-jack] 1xRS232 [Phoenix jack] Receiver: 1xHD BaseT Out [RJ45] 1xIR INPUT [3.5mm Stereo Mini-jack] 1xRS232 [Phoenix jack]
Outputs	Transmitter: 1xHD Base T Out [RJ45] 1xIR OUTPUT [3.5mm Stereo Mini-jack] Receiver: 1xHDMI Type A (19-pin female] 1xIR OUTPUT [3.5 mm Stereo Mini-jack]
Mechanical	
Housing	Metal Enclosure
Color	Black
Dimensions	115mm[W] x 64.7mm [D] x 17mm [H]
Weight	406g
Power Supply	Input: AC100 - 240V 50/60Hz Output: DC 24V/1A (US/EU standards, CE/FCC/UL certified)
Power Consumption	5.76W
Operating Temperature	32 - 104°F / 0 - 40°C
Storage Temperature	-4 - 140°F / -20 - 60°C
Relative Humidity	20 - 90% RH (no condensation)

5. OPERATION CONTROLS AND FUNCTIONS

5.1 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.

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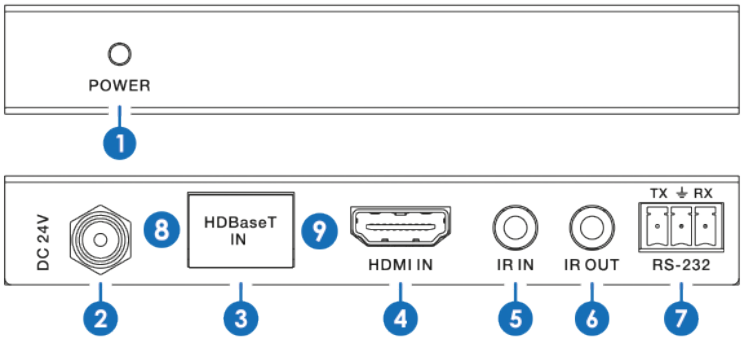
4 **HDMI In:** Connect to HDMI source device such as Blu-ray pr PS4 player.
5 **IR In:** Channel 2 IR Receiver. Connect to an IR receiver cable.
6 **IR Out:** Channel 1 IR Transmitter. Connect to an IR emitter cable.
7 **RS-232:** Phoenix jack provide serial port control from transmitter to receiver.
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.

5.2 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 pr 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**
- Illuminate: The transmitter and Receiver are in good connections status.
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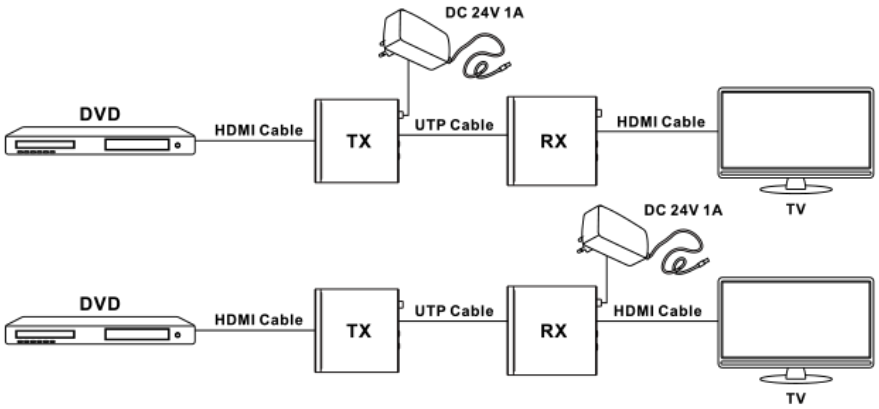
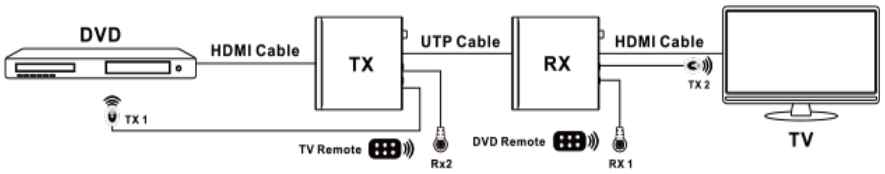
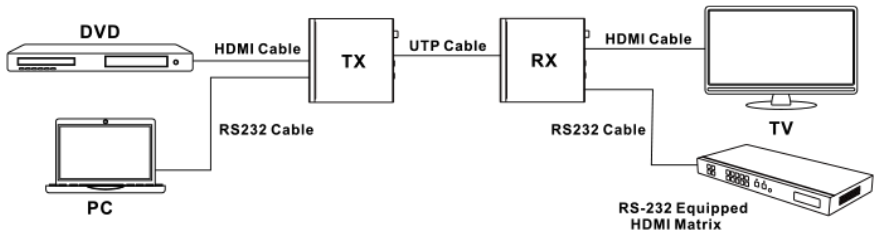
DESCRIPTION 1

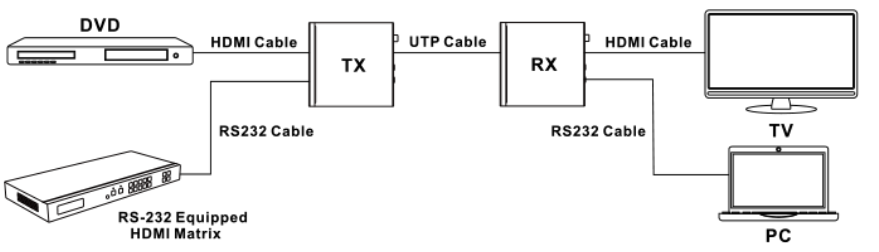


DESCRIPTION 2



DESCRIPTION 3





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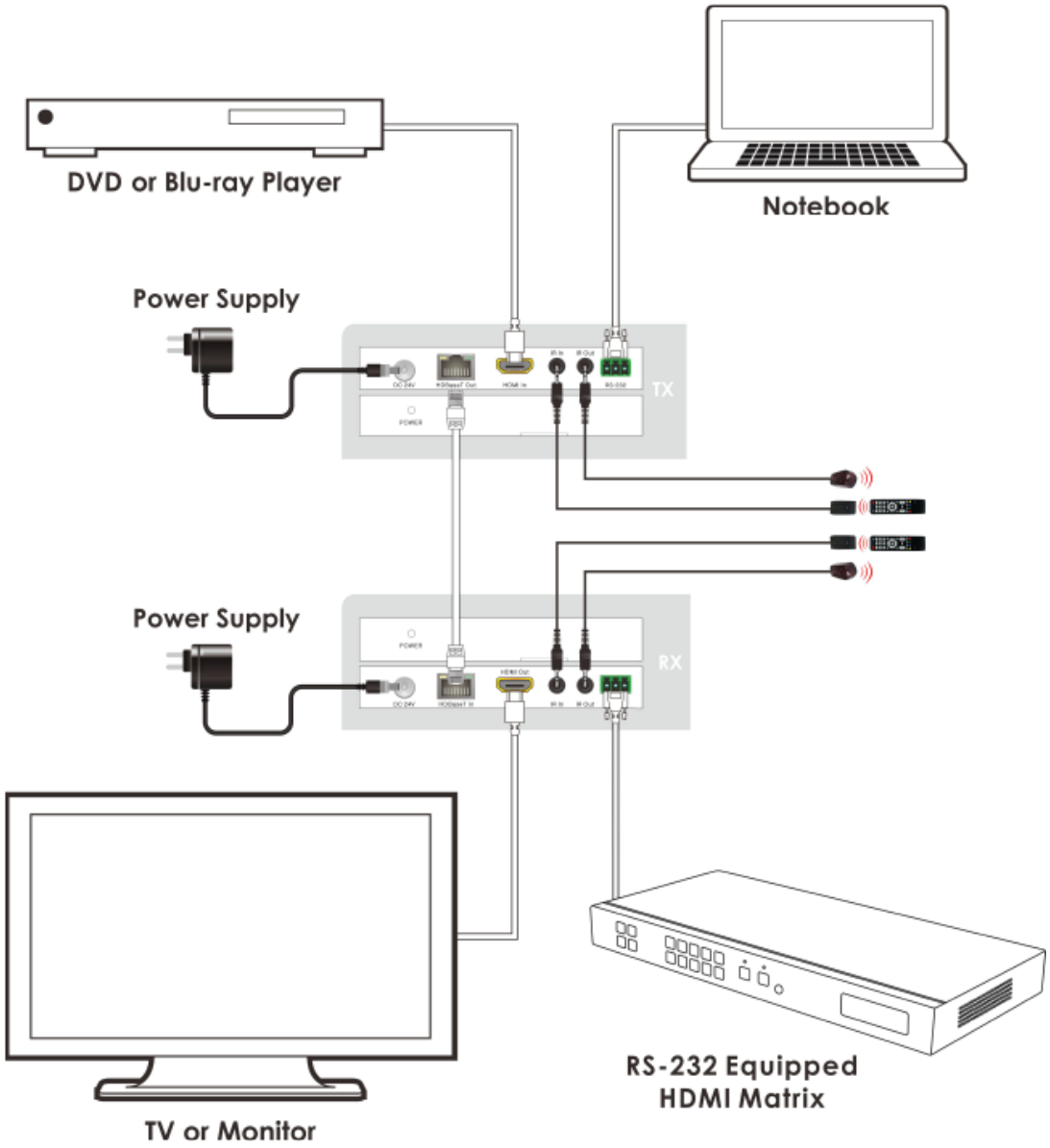
6. CONNECTION DIAGRAM



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