

# DBaseT-Lite HDMI over CAT5e/6/7 with PoE Transmitter - ID# 15125



**Operation Manual**

## Introduction

HDBaseT-Lite HDMI over CAT5e/6/7 with PoE Transmitter can send uncompressed video and audio over a single run of CAT5e/6/7 cable up to 60 meters (1080p) or 35 meters (4K×2K) with the added benefit of control through the built-in RS-232 and 2-way IR ports. The Power over Ethernet (PoE) function provides greater flexibility in installations.

## Features

- HDMI including 3D, 4k×2k supports, HDCP and DVI compliant
- Supports HDCP repeater and CEC bypass functions
- *Supports HDBaseT Technology (Lite version) including 2-Way IR, RS-232 and Power over Ethernet (PoE)*
- Supports HD resolutions up to 1080p@60Hz/36-bit and Ultra HD (4K×2K)
- Supports transmission distance of up to 60 meters through CAT5e/6/7 cable (1080p) or 35 meters (4K×2K)
- Supports HDMI input up to 15 meters at 8-bit resolution or 10 meters at 12-bit resolution and output up to 15 meters at 8-bit resolution and 10 meters at 12-bit resolution
- RS-232 with baud rate up to 115200/sec
- Supports wide range of IR frequency from 30 to 50 kHz
- Audio support up to LPCM 7.1CH, Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio

## Applications

- Household entertainment sharing and control
- Lecture room display and control
- Showroom display and control
- Meeting room presentation and control
- Classroom display and control

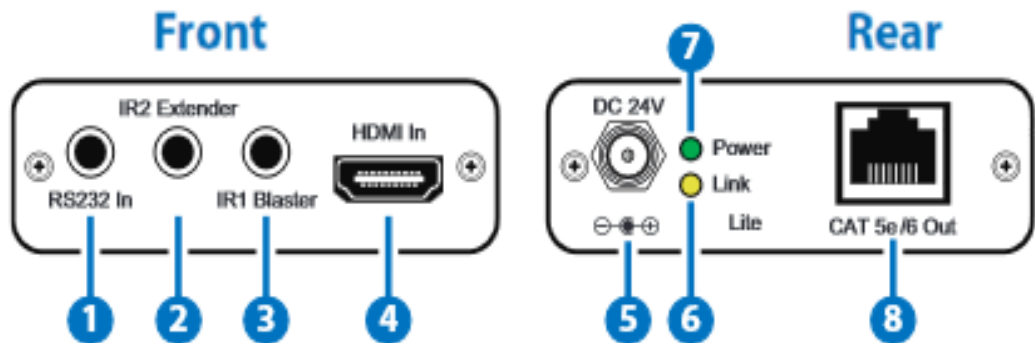
## System Requirements

Input HDMI source equipment such as DVD/Blu-ray players and HDMI equipped output display (TVs or monitors).



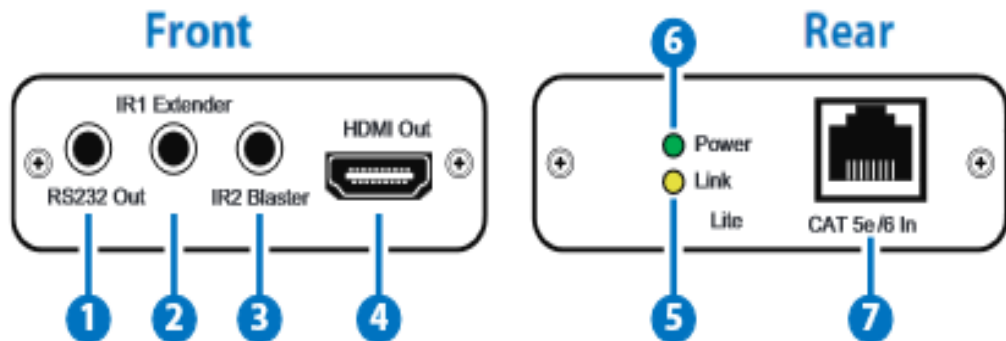
## Operation Controls and Functions

### Transmitter Front and Rear Panel



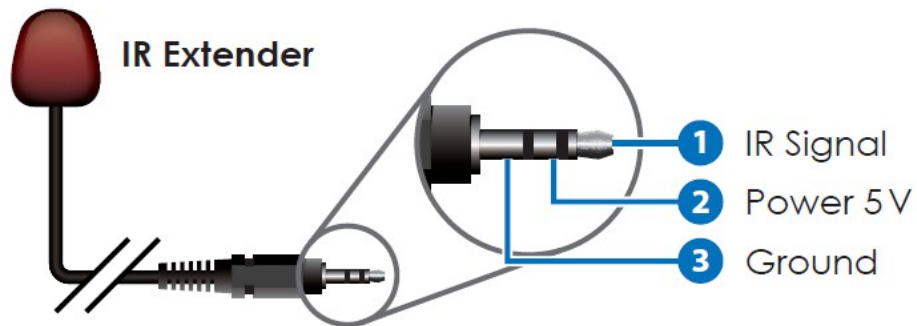
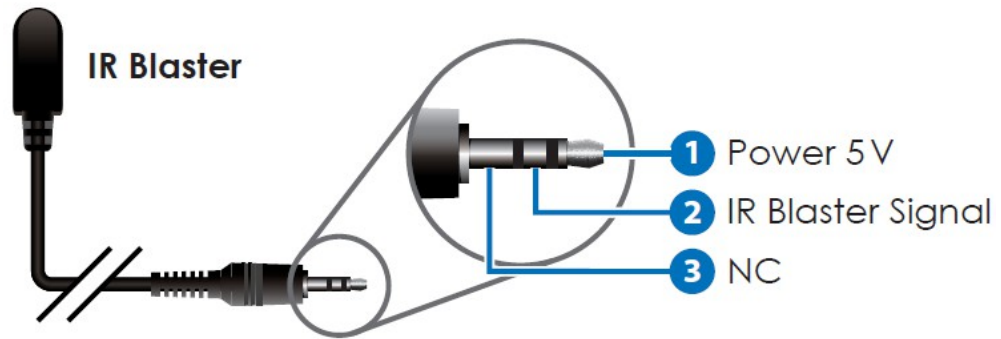
- 1. RS-232 In:** Connect to a PC/laptop or RS-232 enabled device (with supplied 3.5 mm phone jack to D-Sub 9 pin adaptor) for the transmission of RS-232 commands.
- 2. IR2 Extender:** Connect to the supplied IR extender cable for IR signal reception. Ensure that remote controller being used is within the direct line-of-sight of the IR extender.
- 3. IR1 Blaster:** Connect to the supplied IR blaster cable for IR signal transmission. Place the IR blaster in direct line-of-sight of the equipment to be controlled.
- 4. HDMI In:** Connect to HDMI source equipment such as a DVD or Blu-ray player.
- 5. DC 24V:** Plug the 5 V DC power supply into the unit and connect the adaptor to an AC outlet.
- 6. Link:** The yellow LED will illuminate when both the input and output CAT5e/6 signals are connected.
- 7. Power:** This green LED will illuminate when the device is connected to a power supply.
- 8. CAT5e/6 Out:** Connect to the receiver unit with a single CAT5e/6 cable for transmission of all data signals..

## Receiver Front and Rear Panels



- 1. RS-232 Out:** Connect to the device that is to be controlled (with the supplied 3.5mm phone jack to D-Sub 9-pin adaptor) by RS-232 commands.
- 2. IR1 Extender:** Connect to the supplied IR extender cable for IR signal reception. Ensure that remote being used is within the direct line-of-sight of the IR extender.
- 3. IR2 Blaster:** Connect to the supplied IR blaster cable for IR signal transmission. Place the IR blaster in direct line of sight of the equipment to be controlled.
- 4. HDMI Out:** Connect to a HDMI equipped TV/monitor for display of the HDMI input source signal.
- 5. Power:** This green LED will illuminate when the device is connected to a power supply.
- 6. Link:** The yellow LED will illuminate when both the input and output CAT5e/6 signals are connected.
- 7. CAT5e/6 In:** Connect to the transmitter unit with a Single CAT5e/6 cable for transmission of all data signals

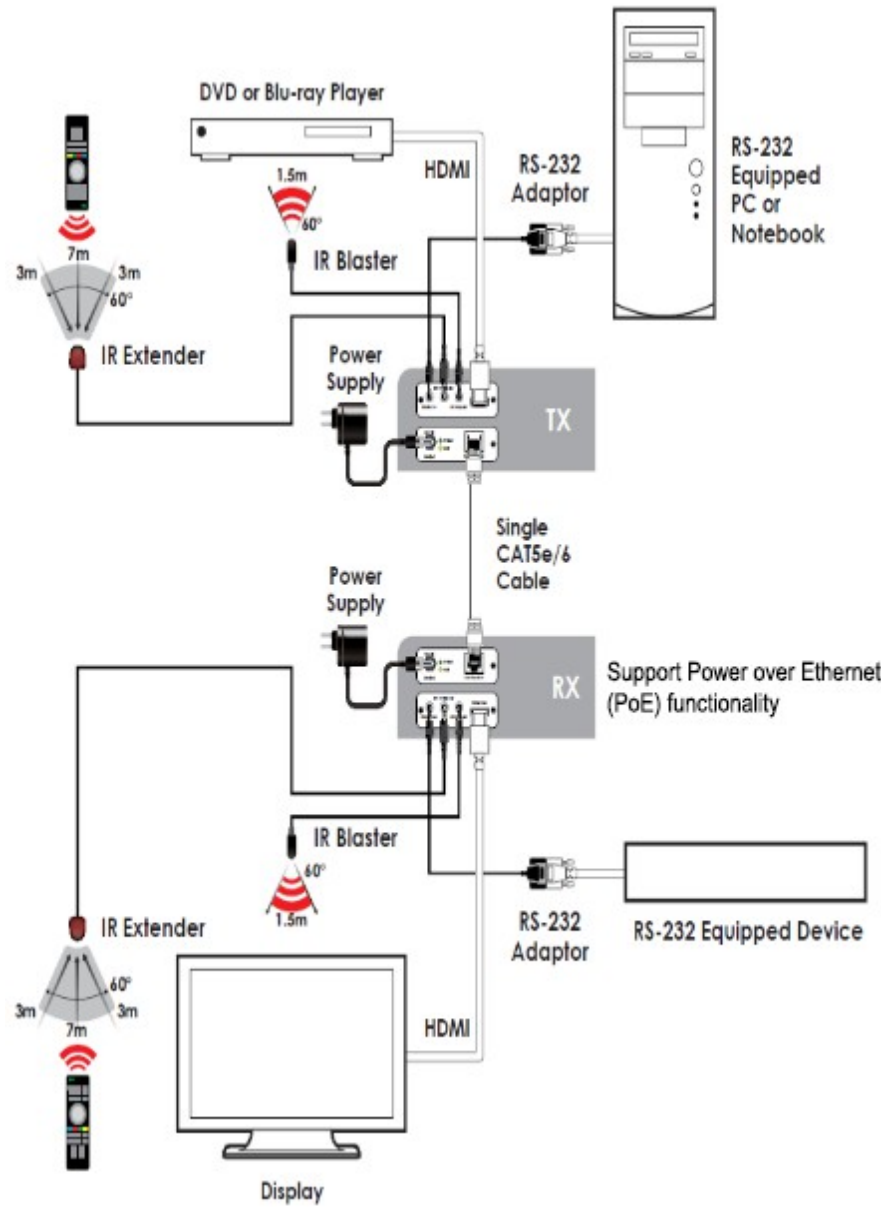
## IR Pin Assignment



### D-Sub 9-Pin Definitions

Pin	Definitions
1	N/C
2	TxD/RxD
3	RxD/TxD
4	N/C
5	GND
6	N/C
7	N/C
8	N/C
9	N/C

# Connection Diagram



## Specifications

<b>Video Bandwidth</b>	300 MHz/10.2 Gbps
<b>Transmitter input port</b>	1 × HDMI audio and video terminals , 1 × IR receiver , 1 × RS-232 terminal (D-sub 9-pin connector )
<b>Transmitter output port</b>	1 × CAT5e/6/7 terminal , 1 × IR emitter
<b>Receiver input port</b>	1 × CAT5e/6/7 terminal , 1 × IR receiver
<b>Receiver output port</b>	1 × HDMI audio and video terminals , 1 × IR emitter , 1 × RS-232 terminal (D-sub 9-pin connector )
<b>CAT5e/6/7 distance</b>	Furthest reach 60 meters
<b>HDMI input distance</b>	10 m / 8 m , 6 m / 12 m
<b>HDMI output distance</b>	10 m / 8 m , 6 m / 12 m
<b>ESD protection</b>	Human-body Model: ± 8 kV (air-gap discharge) ± 4 kV (contact discharge)
<b>Power Supply</b>	24 V/1.25 A DC (US / EU standards, CE / FCC /UL certified)
<b>Infrared signal frequency</b>	30 ~ 50 kHz
<b>Size(mm)</b>	71(W) × 79(D) × 23(H)
<b>Weight</b>	120 g / transmitter , 126 g / Receiver
<b>Body Material</b>	Aluminum
<b>Silkscreen color</b>	Black
<b>Operating Temperature</b>	0 ° C ~ 40 ° C/32 ° F ~ 104 ° F
<b>Storage Temperature</b>	-20 ° C ~ 60 ° C /-4 ° F ~ 140 ° F
<b>Relative Humidity</b>	20 ~ 90% RH (non-condensing)
<b>Power Consumption</b>	3 W / conveyor , 6 W / Receiver