HDBaseT-Lite HDMI over one CAT5e/6/7 Transmitter & Receiver with IR # 15207

Operation Manual

CONVERTERS.TV

Introduction

The HDBaseT™ Lite HDMI over Single CAT5e/6/7 Extender incorporating 2-way IR signal transfer allows for a more efficient system setup and is easy to install. Uncompressed video and audio can be transmitted to distances of up to 60 meters (1080p) or up to 35 meters (4K×2K) and supports High Definition Audio and 3D signals. Designed with HDBaseT Lite technology for greater flexibility in custom installations with full HDMI and 2-way IR control signal transfer over a single CAT5e/6/7 cable

Features

- HDMI including 3D and 4K×2K (Ultra HD) support, HDCP and DVI compliant
- Supports HDCP repeater and CEC bypass
- Supports HDBaseT Lite Technology including 2-Way IR and RS-232
- Supports transmission distance of up to 60 meters through CAT5e/6/7 cable (1080p or 3D) 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 or 12-bit resolution
- Audio support up to LPCM 7.1CH, Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio
- Compact size with stylish design

Note: When displaying a 3D signal with a higher bandwidth than 225 MHz or a 4K×2K resolution source, a High Speed HDMI cable is required

Applications

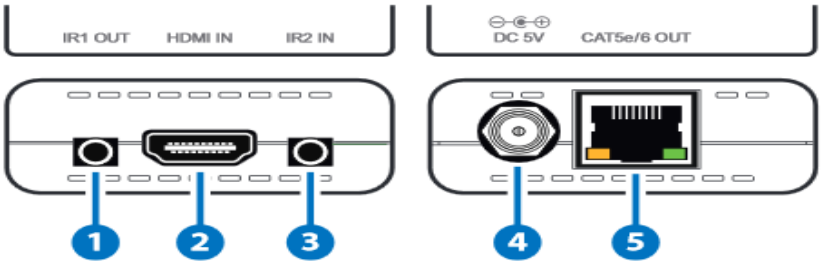
- Residential entertainment sharing and control
- University lecture hall display and control
- Retail sales display and control
- Meeting room presentation and control
- Commercial advertising display and control

System Requirements

HDMI source equipment such as DVD/Blu-ray player/PC and TV/monitor/projector with HDMI input. HDMI and CAT5e/6/7 cables.

Operation Controls and Functions

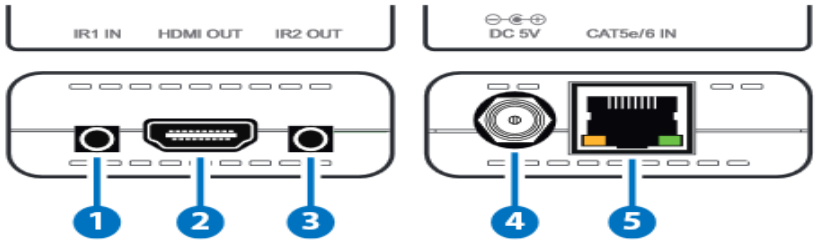
Transmitter Front and Rear Panels



1. **IR1 OUT:**
Connect to the supplied IR blaster for IR signal transmission to the source equipment. Place the IR blaster in direct line-of-sight of the equipment to be controlled.
2. **HDMI IN:** Connect to an HDMI source device such as a DVD player or Set-top Box with HDMI cable or DVI to HDMI cable.
3. **IR2 IN:**
Connect to the supplied IR extender cable for IR signal reception and transmission to IR2 OUT on the receiver unit. Ensure that remote being used is within the direct line-of-sight of the IR extender.
4. **DC 5V:**
Connect the 5V DC power supply to the unit and plug the adaptor into an AC outlet.
5. **CAT5e/6 OUT:**
Connect to the receiver unit with a single CAT5e/6/7 cable for transmission of all data signals. The yellow LED will illuminate when both transmitter and receiver are connected together and are powered.
The green LED will illuminate when the device is connected to the power supply

.

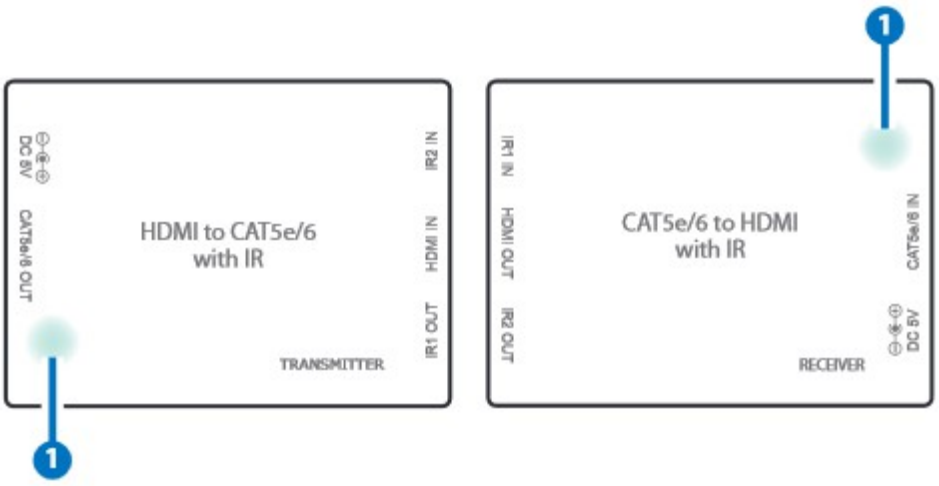
Receiver Front and Rear Panels



1. **IR1 IN:**
Connect the supplied IR extender cable for IR signal reception and transmission to IR1 OUT on the transmitter unit.
Ensure that the remote control being used is within the direct line-of-sight of the IR extender.

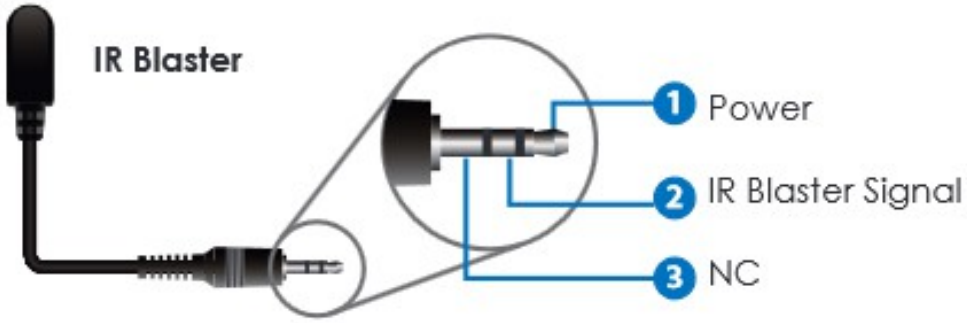
2. **HDMI OUT:**
Connect to a HDMI equipped TV/monitor for display of the HDMI input source signal.
3. **IR2 OUT:**
Connect to the supplied IR blaster for IR signal transmission to the display equipment. Place the IR blaster in direct line-of-sight of the equipment to be controlled.
4. **DC 5V:**
Connect the 5V DC power supply to the unit and plug the adaptor into an AC outlet.
5. **CAT5e/6 IN:**
Connect to the transmitter unit with a single CAT5e/6/7 cable for transmission of all data signals. The yellow LED will illuminate when both the transmitter and receiver are connected and are powered. The green LED will illuminate when the device is connected to the power supply

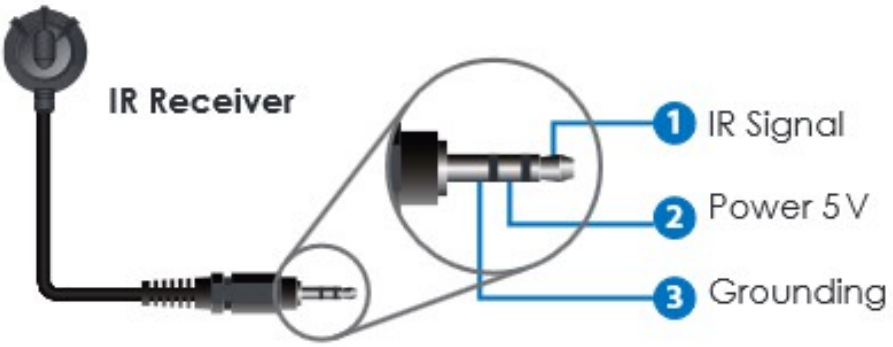
Transmitter and Receiver Top Panels



1. **LINK LED**
This LED will illuminate in blue when the devices are connected with a CAT5e/6 cable. If the data transmission has an error the LED will blink

IR Cable Pin Assignments



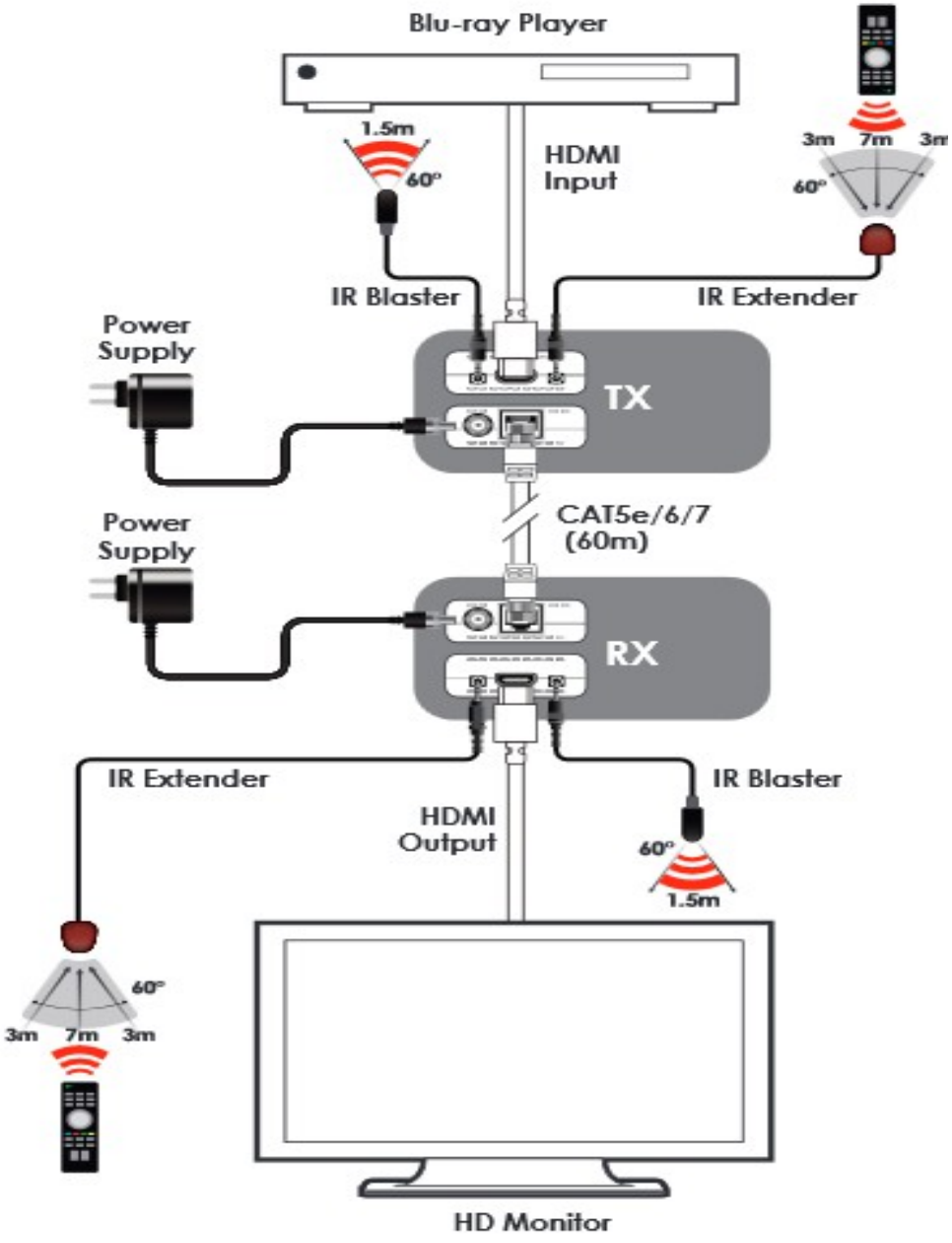


Specifications

Video Bandwidth	300 MHz/10.2 Gbps
Transmitter	
Input	1×HDMI, 1×IR Extender
Output	1×CAT5e/6/7, 1×IR Blaster
Receiver	
Input	1×CAT5e/6/7, 1×IR Extender
Output	1×HDMI, 1×IR Blaster
ESD Protection	Human Body Model: ±8kV (air-gap discharge) ±4kV (contact discharge)
Power Supply	5V/2.6A DC (US/EU standards,CE/FCC/UL certified)
Dimensions	55mm (W)×82mm(D)×22.5mm (H)/Each
Weight	56 g/TX, 64 g/RX
Chassis Material	Plastic
Silkscreen Color	White
Operating Temperature	0℃~40℃/ 32℉~104℉
Storage Temperature	20℃~60℃/−4℉~140℉
Relative Humidity	20~90% RH (non-condensing)
Power Consumption	3W/TX, 5.5W/RX

Connection Diagram

Example 1: Direct Connection



Example 2: Using a Repeater to Extend the Operating Distance