

**HDBaseT HDMI over CAT5e/6  
Transmitter/Receiver w/dual PoE -  
# 15335/15336**



**Operation Manual**

## Introduction

The HDMI with RS-232 over Single CAT5e/6 transmitter and receiver set can send uncompressed audio/video over a single run of CAT5e/6 cable up to 100m with PoE feature and the added benefit of control through the built-in RS-232 and IR ports and a bi-directional LAN connection

## 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 player and HDMI equipped output display (TV or monitor)

## Features

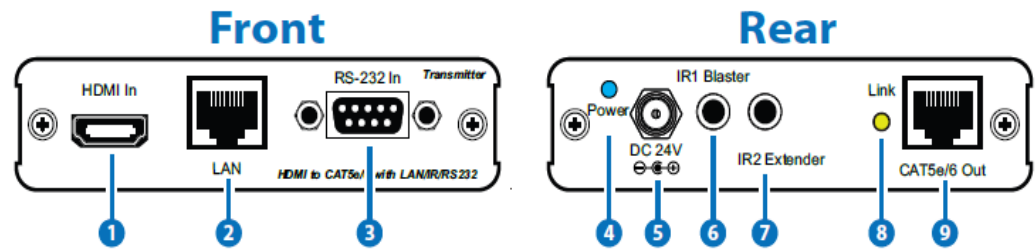
- HDMI 1.4 with 3D, 4kx2k support, HDCP & DVI Compliant
- Supports CEC bypass
- Simultaneous transmission of uncompressed data over a single 100m/328ft CAT5e/6 cable
- Uncompressed video 1080p, 60Hz, 36-bit
- Audio support up to 7.1CH & Dolby TrueHD, DTS-HD
- 5Play™ convergence: HDMI, LAN, Bidirectional PoE & Control (IR & RS-232)
- Installation Friendly

### *Note:*

1. This system was tested with CAT6/23AWG cables, results may vary with cables of a different specification.
2. The PoE function is designed for powering compatible receiver units only—non-PoE receivers will need their own power supply. Receivers of another brand may not be compatible

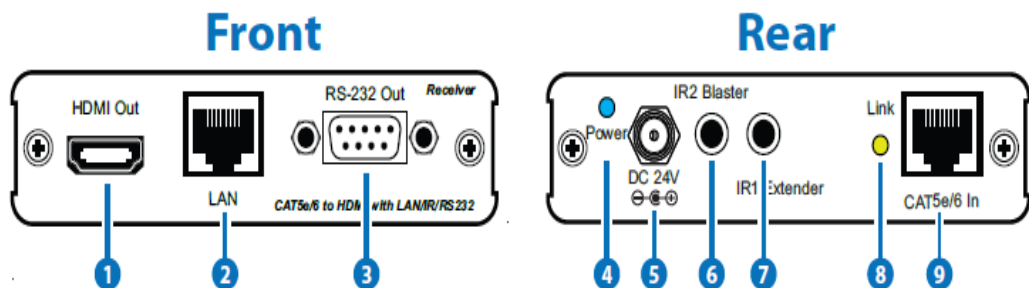
## Operation Controls and Functions

### Transmitter



- 1. HDMI In:** Connect to HDMI source equipment such as a DVD or Blu-ray player.
- 2. LAN:** Connect to an internet or network connection.
- 3. RS-232 In:** Connect to a PC or laptop with D-Sub 9 pin male cable for the transmission of RS-232 commands.
- 4. Power LED:** This blue LED will illuminate when the device is connected to a power supply.
- 5. DC 24V:** Plug the 24 V DC power supply into the unit and connect the adaptor to an AC outlet. Only one side of power needs to be connected to activate both transmitter and receiver.
- 6. IR 1 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.
- 7. IR 2 Extender:** Connect to the supplied IR receiver cables for IR signal reception. Ensure that remote being used is within the direct line-of-sight of the IR extender.
- 8. Link LED:** The yellow LED will illuminate when both the input and output signals are connected.
- 9. CAT5e/6 Out:** Connect to the receiver unit with a Single CAT5e/6 cable for transmission of all data signals.

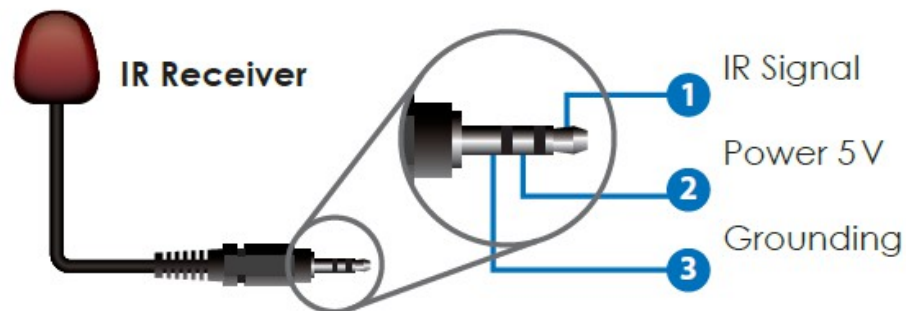
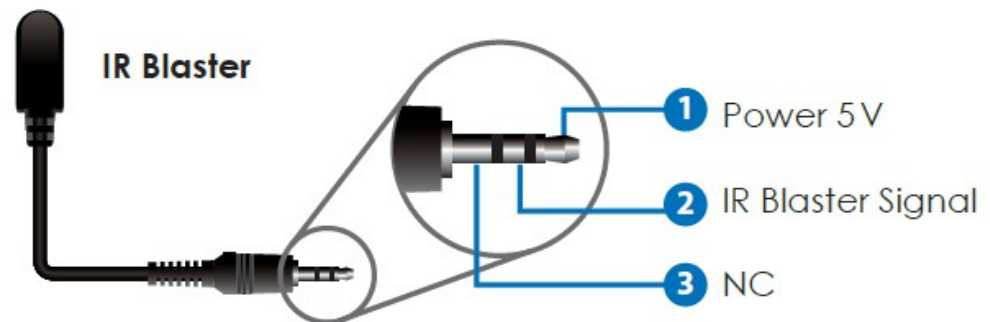
### Receiver



- 1. HDMI Out:** Connect to a HDMI equipped TV/monitor for display of the HDMI input source signal.
- 2. LAN:** Connect to a PC or Laptop to the Internet or network connection.
- 3. RS-232 Out:** Connect to the device that is to be controlled (via D-Sub 9 pin female cable) by RS-232 commands.

- 4. Power LED:** This blue LED will illuminate when the device is connected to a power supply.
- 5. DC 24V:** Plug the 24 V DC power supply into the unit and connect the adaptor to an AC outlet. Only one side of power needs to be connected to activate both transmitter and receiver.
- 6. IR 2 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.
- 7. IR 1 Extender:** Connect to the supplied IR receiver cables for IR signal reception. Ensure that remote being used is within the direct line-of-sight of the IR extender.
- 8. Link LED:** The yellow LED will illuminate when both the input and output signals are connected.
- 9. CAT5e/6 In:** Connect to the transmitter unit with a Single CAT5e/6 cable for transmission of all data signals.

### IR Cable Pin Assignment



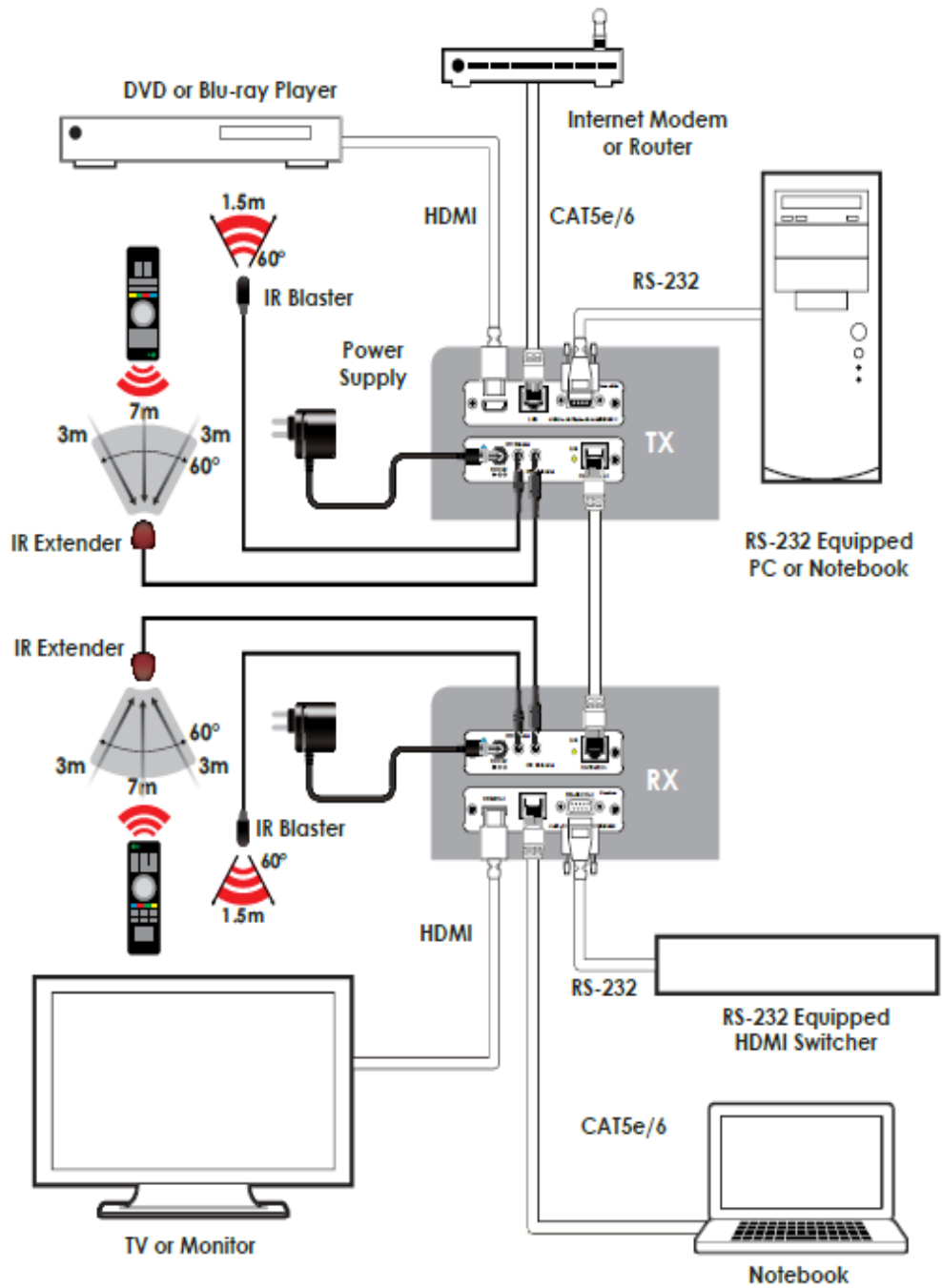
## D-Sub 9 Pin Definitions

Video CV-SV 4x1 Switch	
PIN	DEFINITION
1	NC
2	TxD/RxD
3	RxD/TxD
4	NC
5	GND
6	NC
7	NC
8	NC
9	NC

## Specifications

<b>Video Bandwidth</b>	300MHz / 9Gbps
<b>Ethernet Speed</b>	100 Mbps
<b>Transmitter</b>	
<b>Input</b>	1×HDMI, 1×IR Extender, 1×RS-232, 1×LAN
<b>Output</b>	1×CAT5e/6, 1×IR Blaster
<b>Receiver</b>	
<b>Input</b>	1×CAT5e/6, 1×IR Extender
<b>Output</b>	1×HDMI, 1×RS-232, 1× IR Blaster, 1× LAN
<b>HDMI In/Out Cable Distance</b>	Up to 10 Meters
<b>CAT6 In/Out Cable Distance</b>	Up to 100 Meters
<b>HDMI In/Out Supports Resolution</b>	480i~1080p@50/60, 1080p@24, VGA~WUXGA
<b>IR Frequency</b>	30~50 kHz
<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>Dimensions</b>	102 mm (W)×113 mm (D)×25 mm (H)/each
<b>Weight</b>	252 g (TX), 256 g (RX)
<b>Chassis Material</b>	Aluminum
<b>Silkscreen Color</b>	Silver
<b>Power Consumption</b>	13 W
<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)

## Connection Diagram



**Note:** Only one side of power needs to be connected to activate both transmitter and receiver.