



HDMI 4K HDBaseT Extender Over Single Cat5e/6 Cable with IR Control - 70m User Reference Guide

Introduction

The *HDMI 4K HDBaseT Extender Over Single Cat5e/6 Cable with IR Control - 70m* extends your HDMI A/V signals to a remote display up to 230ft (70m) away through a single Cat5e/6 cable.

Key Features and Benefits

- Delivers crystal clear picture quality with resolution up to 4Kx2K @60Hz
- Digital sound capabilities (7.1Ch), as well as uncompressed LPCM and compressed DTS-HD in Dolby True HD
- Supports HDMI 2.0 and HDCP 2.2 protocols, backwards compatible with earlier versions
- Ultra-slim low profile design easily adopts into versatile application environment, mounting brackets included for different installation requirements

- Bi-directional IR sensors allow you to remotely control the HDMI source device from the remote display side or control the remote display from the source device side
- High quality metal housing with ventilation panels better promote the heat dissipation and system stability during long hours of operation

Package Contents

- *HDMI 4K HDBaseT Extender Over Single Cat5e/6 Cable with IR Control - 70m (TX & RX)*
- Power adapter
- IR Blaster extension cable & IR Receiver extension cable
- Mounting ears & screw kits
- User Reference Guide

Note: With PoC technology, only one power adapter is needed to power both the Transmitter and Receiver.

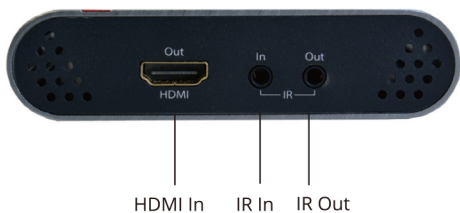


Figure 1: Transmitter (TX) - HDMI Device Input

- **HDMI In:** Connect your HDMI source here with an HDMI cable (cable not included)
- **IR In:** Infrared 3.5mm socket. Plug IR Receiver extension cable here. See instructions on page 6-7.
- **IR Out:** Infrared 3.5mm socket. Plug IR Blaster extension cable here. See instructions on page 6-7.

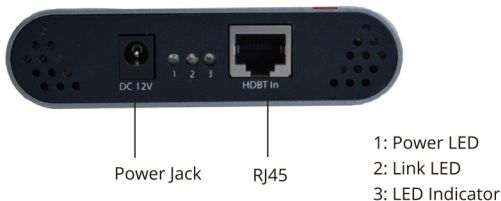


Figure 2: Transmitter (TX) - RJ45 Output

- **Power Jack:** Connect the included 12V DC power adapter here
- **Power LED:** On when the Transmitter is powered
- **Link LED:** On when the Cat5e/6 cable is connected/linked properly between the Transmitter and Receiver
- **LED Indicator:** On when Receiver's HDMI out is connected to an HDMI display and the HDMI signal is outputted
- **RJ45:** Link to the Receiver's RJ45 via a Cat5e/6 cable

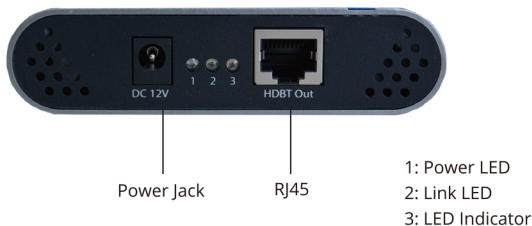


Figure 3: Receiver (RX) - RJ45 Input

- **Power Jack:** Connect the included 12V DC power adapter here. (Note: It's recommended to connect the power adapter to the Transmitter's power jack)
- **Power LED:** On when the Receiver is powered
- **Link LED:** On when the Cat5e/6 cable is connected/linked properly between the Transmitter and Receiver
- **LED Indicator:** On when Receiver's HDMI out is connected to an HDMI display and the HDMI signal is outputted
- **RJ45:** Link to the Transmitter's RJ45 via a Cat5e/6/cable

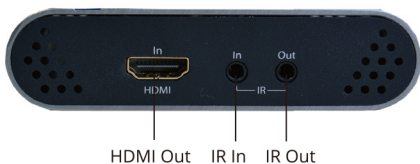
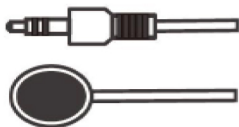


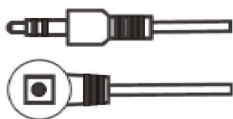
Figure 4: Receiver (RX) - HDMI Display Output

- **HDMI Out:** Connect to your HDMI display here with an HDMI cable (cable not included)
- **IR In:** Infrared 3.5mm socket. Plug IR Receiver extension cable here. See instructions on page 6-7.
- **IR Out:** Infrared 3.5mm socket. Plug IR Blaster extension cable here. See instructions on page 6-7.

IR Extenders (20~60kHz IR devices supported)



**Figure 5: IR Blaster cable
(Connect to IR Out)**



**Figure 6: IR Receiver cable
(Connect to IR In)**

- **IR Blaster cable:** Plug into the Transmitter's or Receiver's IR Out to emit IR signals
- **IR Receiver cable:** Plug into the Receiver's or Transmitter's IR In to receive IR signals

Control your media player (such as DVD) at the TV side using the media player's remote controller

- Plug the **IR Receiver** cable to the **Receiver's IR In** port
- Plug the **IR Blaster** cable to the **Transmitter's IR Out** port.

Control your TV at the media player side using the TV's remote controller

- Plug the **IR Receiver** cable to the **Transmitter's IR In** port.
- Plug the **IR Blaster** cable to the **Receiver's IR Out** port.

Important Note: Incorrect placement of IR Receiver and IR Blaster cables may result in cable failures. Please check carefully before plugging in the IR cables to proper IR sockets. The **IR Receiver** cable always plugs into an **IR In** port & **IR Blaster** cable always plugs into an **IR Out** port.

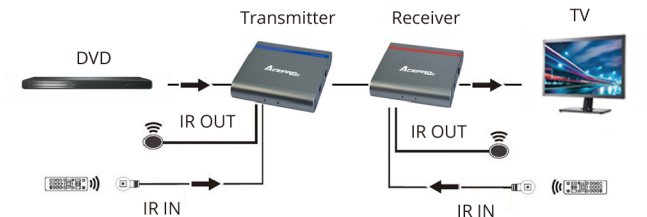
Hardware Installation

Note: To achieve optimal performance, a CAT6 cable is recommended.

1. Power off all devices including your HDMI source and display.
2. Connect your HDMI source to the Transmitter's **HDMI IN** connector with an HDMI cable (not included).
3. Optional: Connect the IR Receiver or Blaster extension cable according to the instructions on page 6-7.
4. Connect your HDMI display to the Receiver's **HDMI OUT** connector with an HDMI cable (not included).
5. Optional: Connect the IR Receiver or Blaster extension cable according to the instructions on page 6-7.
6. Connect and link the Transmitter and Receiver by a CAT5e/6 cable.
7. Plug the included power adapter into the Transmitter's or Receiver's **Power Jack**, then plug the power adapter into a reliable power outlet. (Note: It's recommended to connect it to the Transmitter)
8. Power on your HDMI device and HDMI display.
9. The HDMI Extender is ready for use.

Application

Extends HDMI signals such as game consoles, DVD players or computers up to 70m (230ft) and supports bi-directional IR.



* When using the remote control, please make sure its distance to the IR Receiver extension cable is within 5 meters (16.4 ft) and without obstructions.

Figure 7: Application

FAQ & Solutions

Q: The HDMI display doesn't display images:

A: Check the LED indicators' status to make sure all connections are connected properly.

If the status is abnormal, check the followings:

- 1) Whether the power adapter is connected to the Transmitter (TX) or Receiver (RX) securely.
- 2) Make sure the Network cable (CAT5e/6) is firmly connected between TX and RX.
- 3) Make sure the HDMI cables are securely connected.
 - Between the HDMI source and the TX.
 - Between the HDMI display and the RX.

Q: The LED Indicator (3) is flashing and there is no image on the HDMI display:

A: Check if the HDMI display has been switched to the right HDMI input channel.

Q: The Link LED (2) is flashing and LED Indicator (3) is off:

- A:**
- 1) Check whether there is HDMI signal from HDMI source.
 - 2) Check whether the HDMI cable is securely connected between the RX and HDMI display.

Q: The HDMI display is flashing and having disturbance.

A: Try other HDMI cables to connect the HDMI source to the TX.