



# 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

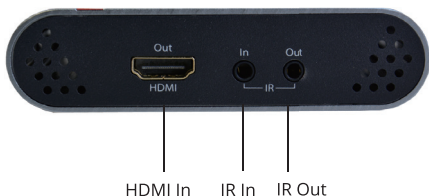
- Bi-directional IR sensors allow you to remotely control the HDMI source device from the remote display side or control the remote display from the source device side
- High quality metal housing with ventilation panels better promote the heat dissipation and system stability during long hours of operation

## **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

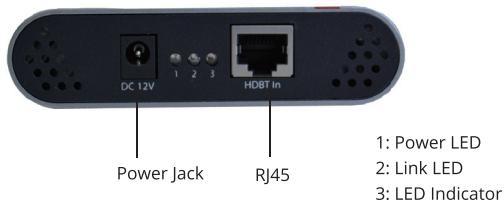
## Layout

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



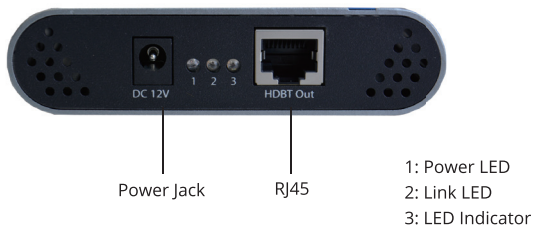
**Figure 1: Transmitter (TX) - HDMI Device Input**

- **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.



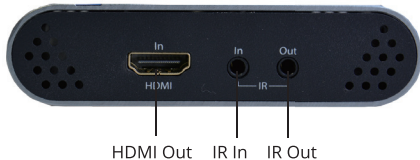
**Figure 2: Transmitter (TX) - RJ45 Output**

- **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**

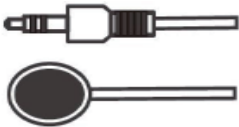
- **Power Jack:** Connect the included 12V DC power adapter here. (Note: It's recommended to connect the power adapter to the Transmitter's power jack)
- **Power LED:** On when the Receiver is powered
- **Link LED:** On when the Cat5e/6 cable is connected/linked properly between the Transmitter and Receiver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



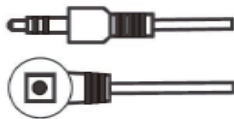
**Figure 4: Receiver (RX) - HDMI Display Output**

- **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

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

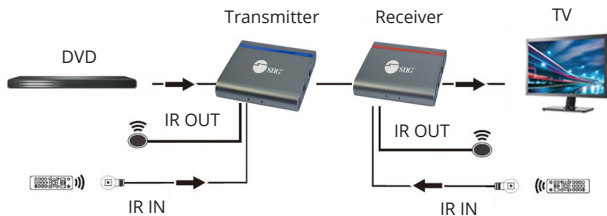
1. Power off all devices including your HDMI source and display.
2. Connect your HDMI source to the Transmitter's **HDMI IN** connector with an HDMI cable (not included).
3. Optional: Connect the IR Receiver or Blaster extension cable according to the instructions on page 6-7.
4. Connect your HDMI display 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

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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

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**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.

## **Technical Support and Warranty**

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**QUESTIONS?** SIIG's **Online Support** has answers! Simply visit our web site at *www.siig.com* and click **Support**. Our online support database is updated daily with new drivers and solutions. Answers to your questions could be just a few clicks away. You can also submit questions online and a technical support analyst will promptly respond.

SIIG offers a 2-year manufacturer warranty with this product. This warranty covers the original purchaser and guarantees the product to be free of any defects in materials or workmanship for two (2) years from the date of purchase of the product. This warranty is not transferable and is available only to the original purchaser of the product.

SIIG will, at our discretion, repair or replace (with an identical product or product having similar features and functionality) the product if defective in materials or workmanship. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. Please see our web site for more warranty details.

If you encounter any problems with this product, please follow the procedures below.

- A) If it is within the store's return policy period, please return the product to the store where you purchased from.
- B) If your purchase has passed the store's return policy period, please follow the steps below to have the product repaired or replaced.

**Step 1:** Submit your RMA request.

Go to **www.siig.com**, click **Support**, then **REQUEST A PRODUCT REPLACEMENT** to submit a request to [SIIG RMA](#) or fax a request to 510-657-5962. Your RMA request will be processed, if the product is determined to be defective, an RMA number will be issued.

**Step 2:** After obtaining an RMA number, ship the product.

- Properly pack the product for shipping. All accessories that came with the original package must be included
- Include a copy of your original sales receipt inside the package with date of purchase and place of purchase circled and clearly visible
- Clearly write your RMA number on the top of the returned package. SIIG will refuse to accept any shipping package, and will not be responsible for a product returned without an RMA number posted on the outside of the shipping carton
- You are responsible for the cost of shipping to SIIG. Ship the product to the following address:

**SIIG, Inc.**  
**6078 Stewart Avenue**  
**Fremont, CA 94538-3152, USA**  
**RMA #:** \_\_\_\_\_

- SIIG will ship the repaired or replaced product via Ground in the U.S. and International Economy outside of the U.S. at no cost to the customer

## About SIIG, Inc.

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Founded in 1985, SIIG, Inc. is a leading manufacturer of IT connectivity solutions (including Serial ATA and Ultra ATA Controllers, FireWire, USB, and legacy I/O adapters) that bridge the connection between Desktop/ Notebook systems and external peripherals. SIIG continues to grow by adding A/V and Digital Signage connectivity solutions to our extensive portfolio. SIIG products offer comprehensive user manuals, many user-friendly features, and are backed by an extensive manufacturer warranty. High quality control standards are evident by the overall ease of installation and compatibility of our products, as well as one of the lowest defective return rates in the industry. SIIG products can be found in computer retail stores, mail order catalogs, through major distributors, system integrators, VARs and through e-commerce sites.

### **PRODUCT NAME**

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

FCC RULES: TESTED TO COMPLY WITH FCC PART 15, CLASS B  
OPERATING ENVIRONMENT: FOR HOME OR OFFICE USE

### **FCC COMPLIANCE STATEMENT:**

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

### **THE PARTY RESPONSIBLE FOR PRODUCT COMPLIANCE**

SIIG, Inc.  
6078 Stewart Avenue  
Fremont, CA 94538-3152, USA  
Phone: 510-657-8688

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