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HDbaseT HDMI 2.0 Extender with HDR
User's Guide

P/N: HDbaseT-HDR

G4-0045A

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Important Safety Notices

Please read safety instructions carefully before installation and operation.

- Please pay close attention to all warnings and hints for this device

- Do not expose this unit to rain, heavy moisture, or liquid

- Do not repair the device or open the enclosure without professional guidance to avoid electric shocks. Doing so may void your warranty

- Keep the product in a well-ventilated location to avoid damage from over heating

- Shut off power and make sure environment is safe before installation
- Do not plug the HDMI cables and IR Extension cables in/out when the device is in use to avoid cable damage. Make sure they are plugged into the correct ports
- Use the included DC12V power adapter only. Make sure the specification matches if using 3rd-party DC power adapter

Package Contents
- Transmitter (TX) & Receiver (RX)
- IR Blaster & IR Receiver Extension Cables
- Power Adapter (1x)
- 3-Pin Phoenix Connector and Plastic Cushions (8x)
- RS-232 Cables (2x)
- Mounting Ears and Screws (4x)
- User's Guide

Introduction

The HDbaseT HDMI 2.0 Extender with HDR extends HDMI signals up to 70 meters (230ft) with PoC using an economical CAT5e/6 cable.

Features

- Extends HDMI transmissions up to 70m (230ft) @ 1080p and 40m (130ft) @ 4K
- Supports UHD 4K/60Hz/4:4:4. HDMI 2.0 & HDCP 2.2 compliant and backward compatible with previous versions
- Supports HDR with 18Gbps bandwidth
- Supports CEC, Bi-directional IR, and RS-232 pass-through
- Bi-directional PoC (Power over Cable) support. Only 1 power adapter required to power both the transmitter and receiver
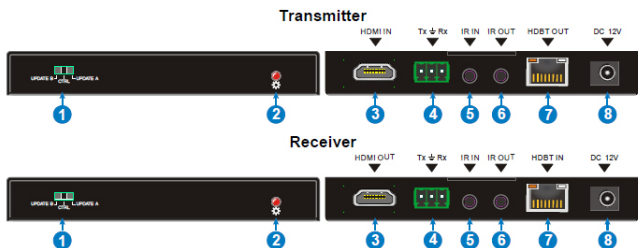- Features firmware update options for future compatibility expansion

Product Layout

Transmitter

Receiver

Figure 1: Transmitter and Receiver

No.	Name	Description
1	Mode Switcher	- CTRL: RS-232 pass-through - UPDATE A: Firmware update mode - UPDATE B: Update compression IC
2	Power LED	Red when power adapter is connected
3	HDMI IN (Transmitter)	Connects to your HDMI source
	HDMI OUT (Receiver)	Connects to your HDMI display
4	3-Pin Terminal Block (Transmitter)	RS-232 pass-through. Connects to your computer's RS-232 port using the included RS-232 cable
	3-Pin Terminal Block (Receiver)	RS-232 pass-through. Connects to your end device's RS-232 port using the included RS-232 cable
5	IR IN	Plug the IR Receiver Extension cable here, receives signals from an IR remote control
6	IR OUT	Plug the IR Blaster Extension cable here, transmitts the signals from an IR remote control
7	HDBT OUT (Transmitter)	Connects to the HDBT IN of the Receiver using a CAT5e/6 cable
	HDBT IN (Receiver)	Connects to the HDBT OUT of the Transmitter using a CAT5e/6 cable
8	DC 12V Power Jack	Plug the included power adapter into either power jack, to power both units

IR Extenders

- **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

Note: Incorrect placement of the IR cables may result in cable failures. Please check carefully before plugging in the IR cables. The **IR Receiver cable** always plugs into an **IR IN** port & **IR Blaster cable** always plugs into an **IR OUT** port.

Installation Requirements

1. HDMI source device (computer, DVD player, XBOX, PS3, etc).

2. HDMI display device (SDTV/Monitor, HDTV/Monitor, projector, etc.).

3. UTP/STP CAT5e/6 cable following IEEE-568B wiring standard.

Hardware Installation

1. Power off all devices including your HDMI source and HDMI display.

Transmitter

2. Connect your HDMI source device to the Transmitter's HDMI IN connector with a HDMI cable (HDMI cable not included).

3. Optional: Connect your RS-232 source device with the included cable.

Receiver

4. Connect your HDMI display to the Receiver's HDMI OUT connector with a HDMI cable (HDMI cable not included).

5. Optional: Connect your RS-232 end device with the included cable.

6. Plug your CAT5e/6 cable between the Transmitter's HDBT Out and Receiver's HDBT IN.

7. Optional: Connect the IR Extension cables according to the instructions on page 6.

8. Plug the included power adapter into either the Transmitter's or Receiver's power jack, then plug the power adapter into a reliable power source. **Note**: Only one power adapter is needed to power both Transmitter and Receiver.

9. Power on all connected devices.
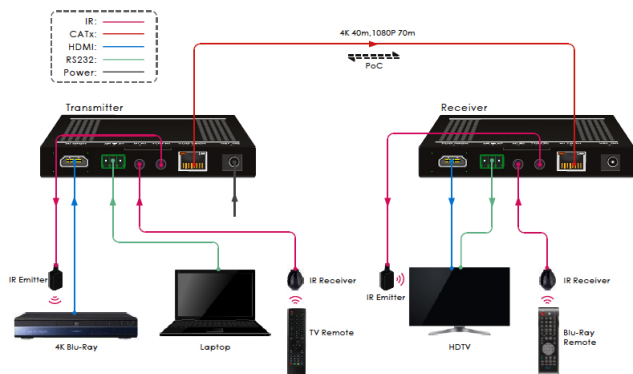
10. The HDMI extender is ready for use.

Application

Figure 2:

FAQ & Solutions

Q: There is no video output or audio and video display is not normal:

A: 1) Use a shorter network cable.

Q: The extender is not working properly:

A: 1) Please check the cable lengths below:
   - HDMI cables: Up to 5m (Input and Output)
   - Network cables (CAT5e/6):
      - Up to 70m @ 1080p
      - Up to 40m @ 4K

Specifications

Item	Description
Transmission Distance	1080p: up to 70m (230ft) 4Kx2K: up to 40m (130ft)
Resolution	Up to 4Kx2K @ 60Hz, 4:4:4
Bandwidth	18Gbps
Standards	HDMI 2.0 & HDCP 2.2
Power Consumption	14W (max)
Operating Temperature	0 to 40 C
Storage Temperature	-10 to 50 C
Humidity	0% to 90%
Power Supply	Input: 100VAC - 240VAC, 50/60Hz Output: 12VDC / 2A

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