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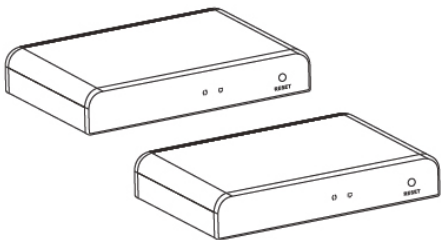# HDMI HDbitT CAT5e/6 Extender 1080p with Loopout - 120m User's Guide

Thank you for purchasing from gofanco. Our products aim to meet all your connectivity needs wherever you go. For optimum performance and safety, please read the instructions carefully and keep this User's Guide for future reference. If you need more information about our products, please visit www.gofanco.com. For technical support, please email us at support@gofanco.com. For drivers/manuals download, please go to http://www.gofanco.com/download.

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 overheating

- Shut off power and make sure environment is safe before installation
- Do not plug the HDMI cables and IR 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 DC5V power adapters only. Make sure the specification matches if using 3rd-party DC power adapters

Introduction

The HDMI HDbitT CAT5e/6 Extender 1080p with Loopout - 120m extends high definition 1080p HDMI signals from a source device to a display device up to 120 meters through a single economical CAT5e/6 cable using advanced HDbitT transport protocol.

Features

- Transmits HDMI signals from source device to display device up to 120 meters using economical CAT5e/6 cabling
- Supports IR remote control function to control the source device from long distances
- Supports additional Receivers (part # HDbitTPro-RX) sold separately
- HDMI out on the Transmitter (TX) for local monitoring of the HDMI signal
- Easy and clean installation
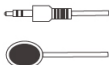
Package Contents

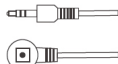Transmitter (TX) (1pc)

Receiver (RX) (1pc)

User's Manual (1pc)

Power Adapter 5VDC/1A (2pcs)

IR Blaster Extension Cable (1pc)

IR Receiver Extension Cable (1pc)

Product Layout

Figure 1: Transmitter (TX)

1 **Power LED**: On when the Transmitter is powered

2 **Activity LED**: Blinks during data transmission

3 **Link LED**: On when the Cat5e/6 cable is connected/linked properly to Transmitter's and Receiver's RJ45

4 **Reset**: Press to reset if HDMI extender doesn't work properly

5 **Power Jack**: Connect the included power adapter here

6 **RJ45 Out**: Link to Receiver's RJ45 In using a Cat5e/6 cable

7 **IR Out**: Infrared 3.5mm socket. Plug IR Blaster Extension Cable here. See instructions on page 8.

8 **HDMI Out**: Connect an HDMI display here for local monitoring of the HDMI signal

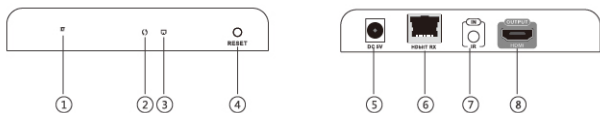9   **HDMI In**: Connect your HDMI source here with an HDMI cable (cable not included)

Figure 2: Receiver (RX)

1   **Power LED**: On when the Receiver is powered

2   **Activity LED**: Blinks during data transmission

3   **Link LED**: On when the Cat5e/6 cable is connected/linked properly to Transmitter's and Receiver's RJ45

4   **Reset**: Press to reset if HDMI extender doesn't work properly

5   **Power Jack**: Connect the included power adapter here

6   **RJ45 In**: Link to Transmitter's RJ45 Out using a Cat5e/6 cable

7   **IR In**: Infrared 3.5mm socket. Plug IR Receiver Extension Cable here. See instructions on page 8.

8   **HDMI Out**: Connect an HDMI display here with an HDMI cable (cable not included)

Installation Requirements

1. HDMI source device (computer, DVD player, etc)
2. HDMI display device (SDTV/Monitor, HDTV/Monitor, projector, etc.)
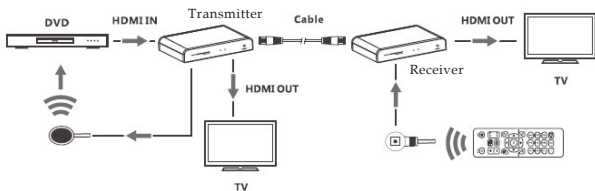3. UTP/STP CAT5e/6 cable following IEEE-568B wiring standard

Hardware Installation

1. Power off all devices including your HDMI source and HDMI display(s).
2. Connect your HDMI source device to the Transmitter's HDMI Input connector with an HDMI cable (HDMI cable not included).
3. Optional: Connect an HDMI display to the Transmitter's HDMI out connector with an HDMI cable (cable not included). This connection is needed only if you need local monitoring of the HDMI signal.
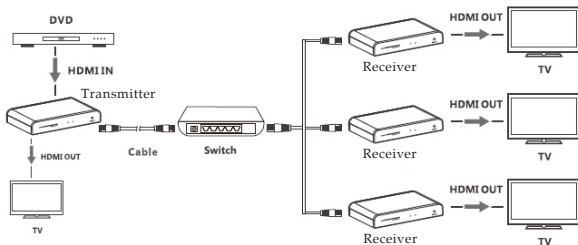
4. Optional: Connect the IR Blaster Extension Cable to the Transmitter's IR Out port. Face the eye towards your HDMI source device's IR window. This connection is needed only if you need to control your HDMI source from the remote location.

5. Plug your Cat5e/6 cable between the Transmitter's RJ45 Out and Receiver's RJ45 In.

6. Connect your HDMI display to the Receiver's HDMI output connector with an HDMI cable (HDMI cable not included).

7. Optional: Connect the IR Receiver Extension Cable to the Receiver's IR In port. This connection is needed only if you need to control your HDMI source device from the remote location.

8. Plug the included power adapters into the Transmitter's and Receiver's power jacks, then plug them into a reliable power source.

9. Power on all connected devices.

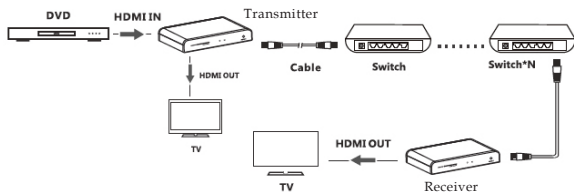10. The HDMI extender is ready for use.

Application

1. One-to-One: Extends HDMI signals up to 120 meters over a single Cat5e/6 cable.

2. One-to-Many: Extend and split using dedicated network router/switch.
   - One Transmitter (TX) to several Receivers (RX)
   - Additional Receivers (part # HDbitTPro-RX) sold separately

3. Cascade: Unlimited extension with dedicated network router/switch.

FAQ & Solutions

Q: What if my display shows "Waiting for connection..."on the bottom right corner?

A: 1) Please check if the power adapters of Transmitter (TX) and Receiver (RX) are connected and powered on.

2) Check the network cable (Cat5e/6) is firmly connected between the TX and RX.

Q: The remote display says, "Please check the TX input signal":

A: 1) Please make sure the HDMI source device is connected to the Transmitter (TX) unit and powered on.

2) Use different HDMI cables.

3) If it's still not working, connect the HDMI source device to the display directly to see if there's a signal.

Q: The extender is not working properly:

A: 1) Please check the cable lengths below:

- HDMI cables: Up to 2 meters

- Network cables (Cat5e/6): Up to 120m

2) Press the reset button on the TX & RX and reconnect

Specifications

Item	Specification
Compliance	HDMI 1.3, HDCP 1.2
Transmission protocol	HDbitT
Transmission distance	Cat5e: 100m, Cat6: 120m
Resolution	480i@60Hz, 480p@60Hz, 576i@50Hz, 576p@50Hz, 720p@50/60Hz, 1080i@50/60Hz, 1080p@50/60Hz
IR frequency	20KHz - 60KHz
HDMI connector	Type A, 19-pin, Female
Power consumption	TX: 3.5W; RX: 3W
Power supply	5VDC / 1A
Operating temperature	32 - 140 F (0 -60 C)
Dimensions	5.1" (L) x 1.73" (W) x 0.91" (H)
Weight	TX: 0.45lbs; RX: 0.44lbs

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