gofanco®

HDMI HDbitT CAT5e/6 Extender with IR - 120m

P/N: HDbitTExt

G4-0014A

Congratulations for owning a gofanco product. Our products aim to meet all your connectivity needs wherever you go. Have fun with our products!

Please read this manual carefully before first use.

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Introduction

gofanco HDMI HDbitT CAT5e/6 Extender with IR - 120m (part# HDbitTExt) extends HDMI signals over one Cat5e/6 cable up to 120m (394ft) with IR support.

Specifications

Output Signal	HDMI
Protocol	HDbitT
Resolution	Up to 1080p
Transmission Distance	Up to 120m (394ft)
Network Cable	CAT5e/6
HDMI Cable	Up to 2m (Input & Output)
Power Supply	DC 5V/1A
IR Signal	20~60KHz IR devices supported

Package Contents

- HDMI HDbitT CAT5e/6 Extender with IR - 120m (TX & RX)
- 2x Power adapters
- IR Blaster extension cable
- IR Receiver extension cable
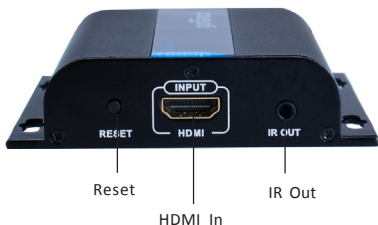- User's guide

Layout

Reset

HDMI In

IR Out

Figure 1: Transmitter (TX) - HDMI Device Input

- **HDMI In:** Connect your HDMI source here with an HDMI cable (cable not included)
- **IR Out:** Infrared 3.5mm socket. Plug IR Blaster extension cable here
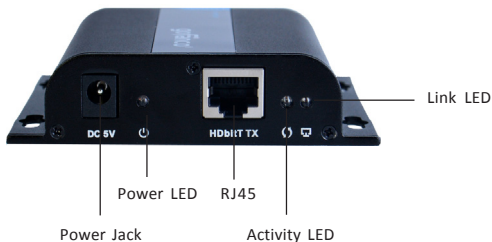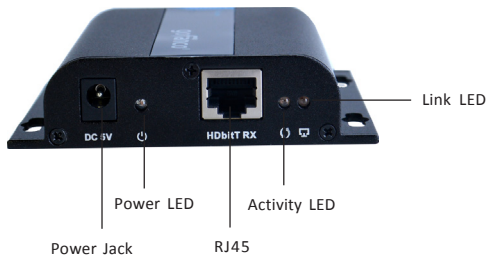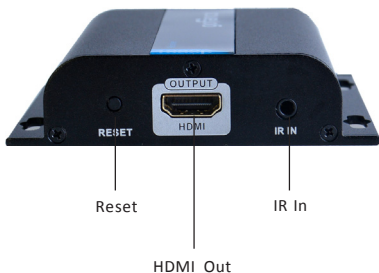- **Reset:** Press to reset if HDMI Extender doesn't work properly

Link LED

DC 5V   Power LED   RJ45   Activity LED

Power Jack

Figure 2: Transmitter (TX) - RJ45 Output

- **Power Jack:** Connect the included 5V DC power adapter here
- **Power LED:** On when the Transmitter is powered
- **RJ45:** Link to the Receiver's RJ45 via a Cat5e/6 cable
- **Activity LED:** Blinks during data transmission
- **Link LED:** On when the Cat5e/6 cable is connected/linked properly to Transmitter's and Receiver's RJ45

Figure 3: Receiver (RX) - RJ45 Input

- **Power Jack:** Connect the included 5V DC power adapter here
- **Power LED:** On when the Receiver is powered
- **RJ45:** Link to the Transmitter's RJ45 via a Cat5e/6 cable
- **Activity LED:** Blinks during data transmission
- **Link LED:** On when the Cat5e/6 cable is connected/linked properly to Transmitter's and Receiver's RJ45

Reset

IR In

HDMI Out

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
- **Reset:** Press to reset if HDMI Extender doesn't work properly

IR Extenders

**Figure 5: IR Blaster
(Connect to Transmitter TX)**

**Figure 6: IR Receiver
(Connect to Receiver RX)**

- **IR Blaster:** Plug into the Transmitter's IR 3.5 socket to emit IR signals received from the IR Receiver end.
- **IR Receiver:** Plug into the Receiver's IR 3.5 socket to receive IR signals from a remote control for the HDMI device connected to the Transmitter.

> **Note**: Incorrect placement of the IR Blaster and IR Receiver may result in failure of these cables. Please check carefully before plugging in the IR cables to proper IR sockets.

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.
3. Optional: Connect the IR Blaster extension cable to the Transmitter's **IR Out**. Face the eye towards your HDMI device's IR window.
4. Connect your HDMI display to the Receiver's **HDMI OUT** connector with an HDMI cable (not included).
5. Optional: Connect the IR Receiver extension cable to the Receiver's **IR In**.
6. Connect and link the Transmitter and Receiver by a CAT5e/6 cable.
7. Plug the included power adapters into the Transmitter's and Receiver's **Power Jacks**, then plug both power adapters into reliable power outlets.
8. Power on your HDMI device and HDMI display.
9. The HDMI Extender is ready for use.

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

Application

1. **Single output:** Extend HDMI signals up to 120 meters over one CAT5e/6 cable.
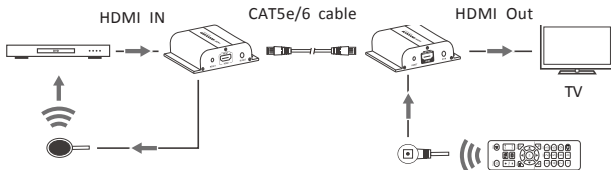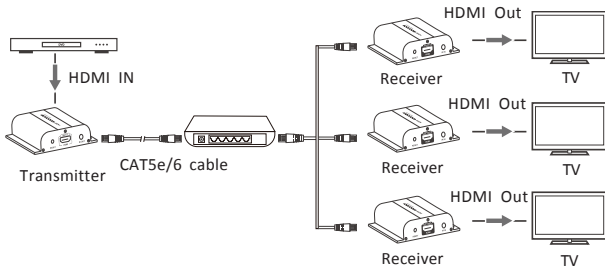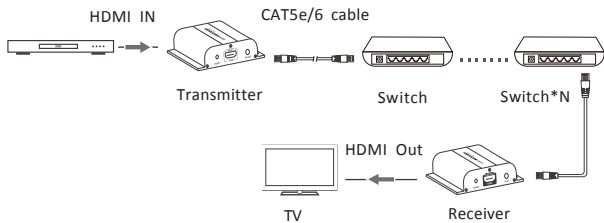

Figure 7

2. **Multiple outputs:** Extend and split using network router/switch.
- One Extender (TX) to several Receivers (RX)

3. **Cascade:** Unlimited extension with network router/ repeater.

HDMI IN CAT5e/6 cable

Transmitter   Switch   Switch*N

HDMI Out

TV   Receiver

FAQ & Solutions

Q: The TV displays "Waiting for connection..." on the bottom-right corner:

A: 1) Check whether the power adapter of Transmitter (TX), Receiver (RX) or Network Switch (if used) is connected.
2) Make sure the Network cable (CAT5e/6) is firmly connected between TX and RX.

Q: The TV displays "Please check the TX input signal":

A: 1) Make sure the HDMI device is connected to the Transmitter (TX).
2) Use other HDMI cables to connect.
3) If still doesn't work, connect the HDMI device to the TV directly to see if there's a signal.

Q: The HDMI extender isn't working properly:

A: 1) Please check the cable lengths are within below:
- HDMI cables: 2m
- Network cable (CAT5e/6): 120m
2) Press the "Reset" button on the TX/RX and reconnect.

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