

gofanco®

HDBaseT HDMI Extender over CAT5e/6/7 with IR - 70m



P/N: HDbaseT-Ext

G4-0018A





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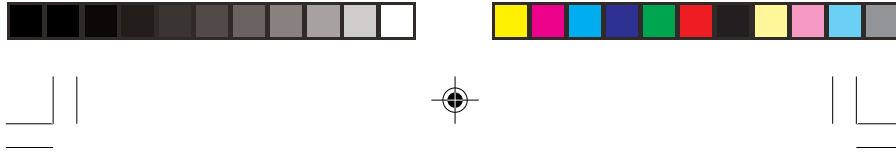
Please read this manual carefully before first use.

If you need more information about our products, please visit www.gofanco.com.

For technical support, please email us at support@gofanco.com.

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Introduction

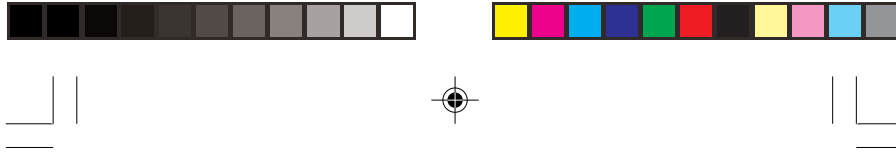
gofanco HDBaseT HDMI Extender over CAT5e/6/7 with IR - 70m (part# HDbaseT-Ext) extends HDMI signals over one Cat5e/6/7 cable up to 70m (230ft) with bi-directional IR support.

Specifications

Output Signal	HDMI
Protocol	HDBaseT
Resolution	Up to 4K x 2K
Transmission Distance	Up to 70m (1080p) Up to 40m (4K x 2K)
Network Cable	CAT5e/6/7
HDMI Cable	Up to 5m (Input & Output)
Power Supply	DC 12V/2A

Package Contents

- HDBaseT HDMI Extender over CAT5e/6/7 with IR - 70m (TX & RX)
- Power adapter
- IR Blaster extension cable & IR Receiver extension cable
- Mounting ears & screw kit
- User's guide



Layout

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

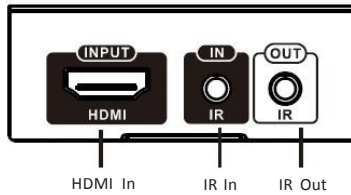


Figure 1: Transmitter (TX) - HDMI Device Input

- **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 7.
- **IR Out:** Infrared 3.5mm socket. Plug [IR Blaster](#) extension cable here. See instructions on page 7.

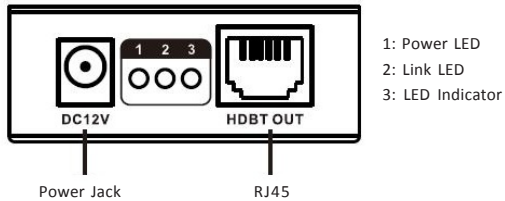
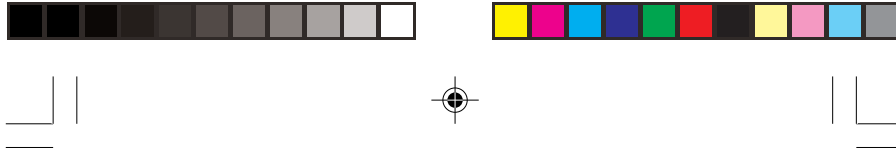


Figure 2: Transmitter (TX) - RJ45 Output



- **Power Jack:** Connect the included 12V DC power adapter here (or the Receiver's power jack)
- **Power LED:** On when the Transmitter is powered
- **Link LED:** On when the Cat5e/6/7 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

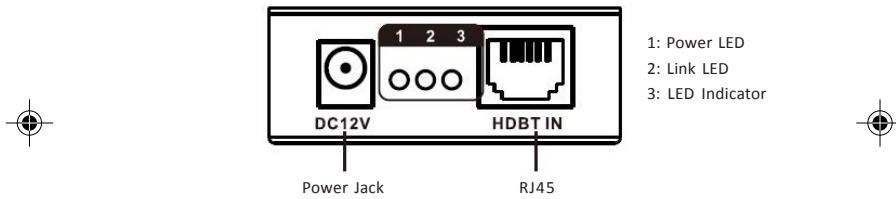


Figure 3: Receiver (RX) - RJ45 Input

- **Power Jack:** Connect the included 12V DC power adapter here (or the Transmitter's power jack)
- **Power LED:** On when the Receiver is powered
- **Link LED:** On when the Cat5e/6/7 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/6/7 cable



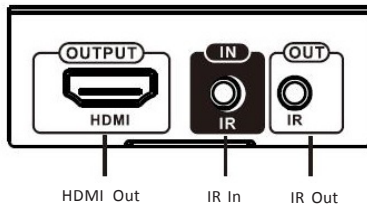
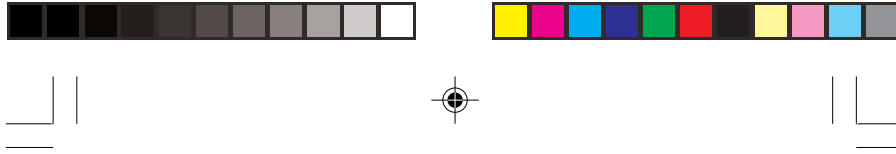


Figure 4: Receiver (RX) - HDMI Display Output

- **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 7.
- **IR Out:** Infrared 3.5mm socket. Plug IR Blaster extension cable here. See instructions on page 7.

IR Extenders (20~60kHz IR devices supported)

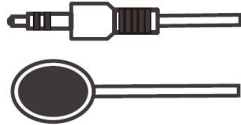


Figure 5: IR Blaster cable
(Connect to IR Out)

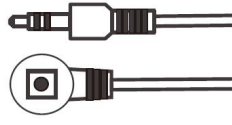
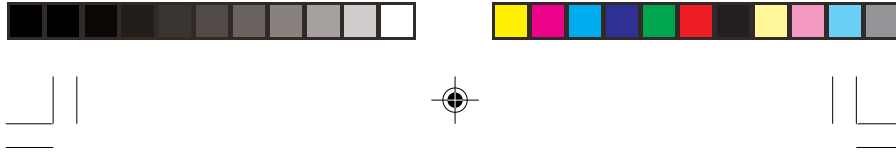


Figure 6: IR Receiver cable
(Connect to IR In)



- **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

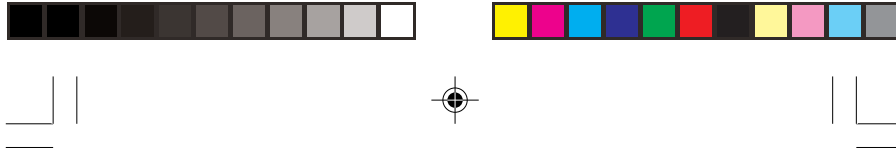
Note: To achieve optimal performance, a CAT6 or CAT7 cable is recommended.

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 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 7.
6. Connect and link the Transmitter and Receiver by a CAT5e/6/7 cable.
7. Plug the included power adapters into the Transmitter's or Receiver's **Power Jack**, then plug the power adapter into a reliable power outlet.
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 (16.4 ft) and without obstructions.





Application

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

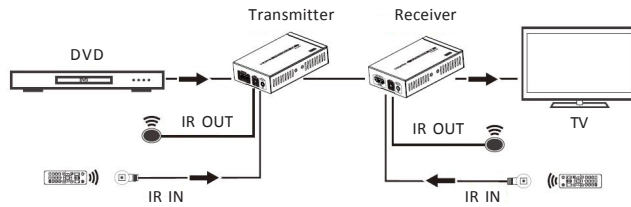


Figure 7: Application



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/6/7) 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.





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