gofanco®

Full HD HDMI over IP Extender with Loopout & IR

User Manual



G4-0175A

P/N: EXHDIPPRO-200, EXHDIPPRO-200RX

Thank you for purchasing a gofanco product. Our products are designed to meet your connectivity needs wherever you go.

For optimal performance and safety, please read this User's Manual carefully and keep it for future reference. For more information about our products, please visit **www.gofanco.com**.

For technical support, email us at **support@gofanco.com**.
For drivers or manual download, please go to **www.gofanco.com/downloads.**

Important Safety Notices

Please read the following safety instructions carefully before installation and operation.

- Pay close attention to all warnings and instructions for this device.
- Do not expose the device to rain, excessive moisture, or liquid.
- Do not insert objects into the device or attempt to modify it.
- Do not open or attempt to repair the device yourself. Doing so may result in electric shock and may void the warranty.
- Keep the product in a well-ventilated area to prevent overheating.
- Turn off the power and make sure the installation area is safe before installation.
- Do not connect or disconnect HDMI or IR cables while the device is powered on. Make sure all cables are connected to the correct ports before powering on the device.
- Use only the included power adapters. If using third-party DC power adapters, make sure their specifications match the requirements of the device.

Table of Contents

1. Introduction 4
2. Features 4
3. Package Contents 5
4. Product Layout 6
5. Specifications 8
6. Hardware Installation 9
7. CAT Cable Wiring Diagram 10
8. Application Diagram 11
9. IR Application 13
10. Frequently Asked Questions 14
11. Disclaimer 15

1. Introduction

The gofanco EXHDIPPRO-200 Full HD HDMI Over IP Extender provides a reliable way to extend HDMI signals up to 656ft (200m) over a single Cat6 cable. It supports both one-to-one and one-to-many setups using a standard Gigabit network switch.

Featuring HDMI loopout, IR remote control, audio extraction, and plug-and-play installation, it is ideal for restaurants, retail stores, digital signage, home entertainment, and other commercial or residential applications.

2. Features

- Extends HDMI audio/video signals up to 656ft (200m) over a single Cat6 cable with Full HD 1080p support
- Supports one-to-one and one-to-many configurations through a standard unmanaged Gigabit network switch, with up to 253 receivers per transmitter. Additional receiver EXHDIPPRO-200RX sold separately
- Supports video resolutions up to 1080p@60Hz
- HDMI loopout on the transmitter supports connection to a local display
- Supports stereo audio over HDMI with PCM 2-channel audio output through the 3.5mm jack on both the transmitter and receiver
- Built-in IR pass-through supports 20–60kHz IR signals and allows source device control from the receiver location
- Reset buttons on both the transmitter and receiver allow quick system restarts
- Plug-and-play installation requires no software or drivers
- Durable metal housing with ESD protection provides reliable operation

3. Package Contents

Kit (EXHDIPPRO-200)

- Full HD HDMI Over IP Extender with Loopout & IR - 200m (TX & RX)
- IR blaster cable
- IR receiver cable
- Power adapter (2 pcs, 5V/1A)
- User Manual

Receiver (EXHDIPPRO-200RX)

- Full HD HDMI Over IP Extender with Loopout & IR - Receiver (RX)
- IR receiver cable
- Power adapter (5V/1A)
- User Manual

4. Product Layout

4.1 Transmitter Layout



Figure 1: Transmitter Layout

No.	Connections	Descriptions
1	IR Out	Connects to the IR blaster cable for source control
2	Audio Out	Connects to external speakers or an audio system
3	RJ45 Out	Connects to the receiver via Cat5e/Cat6/Cat7 cable
4	Reset	Press to reset the transmitter
5	DC 5V	Connects to the included power adapter
6	PWR	Power status indicator
7	HDMI In	Connects to an HDMI source device
8	STA	HDMI input status indicator
9	HDMI Out	Connects to a local HDMI display for loopout monitoring
10	Link	Link status indicator

4. Product Layout

4.2 Receiver Layout



Figure 2: Receiver Layout

No.	Connections	Descriptions
11	IR In	Connects to the IR receiver cable for source control
12	Audio Out	Connects to external speakers or an audio system
13	RJ45 In	Connects to the transmitter via Cat5e/6/7 cable
14	DC 5V	Connects to the included power adapter
15	PWR	Power status indicator
16	HDMI Out	Connects to an HDMI display
17	Link	Link status indicator

5. Specifications

HDMI Version	HDMI 1.3, HDCP 1.2
Supported Resolutions	480p / 576p / 720p / 1080i / 1080p
Video Bandwidth	Up to 4.95Gbps / 165MHz
Network Protocol	TCP / IP
Supported Network Cable	Cat5e / Cat6 / Cat7, T568B wiring
Max. Transmission Distance	Up to 656ft (200m) at 1080p 60Hz
IR Frequency Range	20 - 60KHz
Operating Temperature	5°F to 131°F (-15°C to 55°C)
Storage Temperature	-4°F to 140°F (-20°C to 60°C)
Operating Humidity	5% to 90% RH, non-condensing
Power Input	DC 5V/1A
Power Consumption	TX: 4W / RX: 4W
Dimensions	3.24" x 0.71" x 3.92" each
Weight	0.33 lb (149.69 g) each
Housing	Metal
Color	Black
Compliance	FCC, CE, RoHS
Warranty	2 Years
Country of Origin	China

6. Hardware Installation

1. Power off the HDMI source device and display before making any connections.
2. Connect the HDMI source device to the HDMI In port on the transmitter (TX) using an HDMI cable.
3. Connect the transmitter (TX) and receiver (RX) using a Cat5e, Cat6, or Cat7 cable.
4. Connect the HDMI Out port on the receiver (RX) to an HDMI display using an HDMI cable.
5. Connect the included 5V power adapter to the transmitter (TX).
6. Power on the HDMI source device and display. The extender is now ready to use.

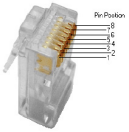
Note:

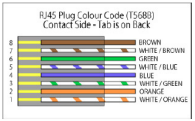
- The extender uses 1080p as the default EDID setting. For 1080i or 720p output, set the HDMI source device to the desired resolution before use.

7. CAT Cable Wiring

Use the T568B wiring standard on both ends of the network cable to ensure a stable and reliable connection.

Both connectors must be wired identically, to T568B standard.





Note: *You may use cat5e, cat6 UTP (cat6 preferred) in conjunction with the HDBitT output; however for best performance use cat6a or cat7 (particularly in electrically noisy environments). The maximum distances & transmission performance for HDMI and HDBT may be compromised by cable quality, patch panels, poor termination, wall plates, cable kinks and electrical interferences. Generally ensure the cat cable is solid copper core of 23AWG (avoid CCA type), in one straight run (avoid/minimise patches) and avoid close proximity to any noisy electrical sources.*

8. Application Diagram

8.1 1-to-1 Connection

Connect one transmitter directly to one receiver using a Cat5e, Cat6, or Cat7 cable.

A Gigabit network switch may also be used between the transmitter and receiver. When connecting the extender through an existing network, a dedicated VLAN is recommended to separate the HDMI over IP devices from other network traffic.

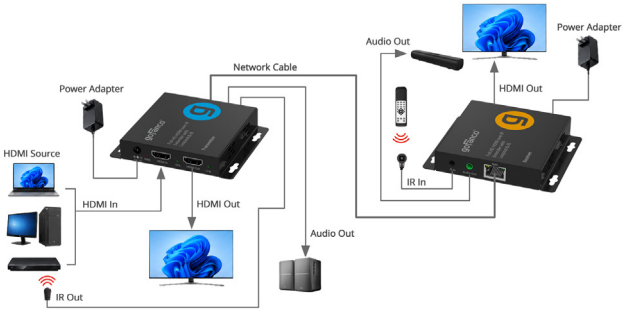


Figure 3: 1-to-1 Direct Connection Application Diagram

8. Application Diagram (Continued)

8.2 1-to-Many Connection

Connect one transmitter to multiple receivers through a standard unmanaged Gigabit network switch to distribute the same HDMI source to multiple displays.

For best performance, a dedicated Gigabit network switch is recommended. If the system is connected to an existing network, use a dedicated VLAN to separate the HDMI over IP devices from other network traffic.

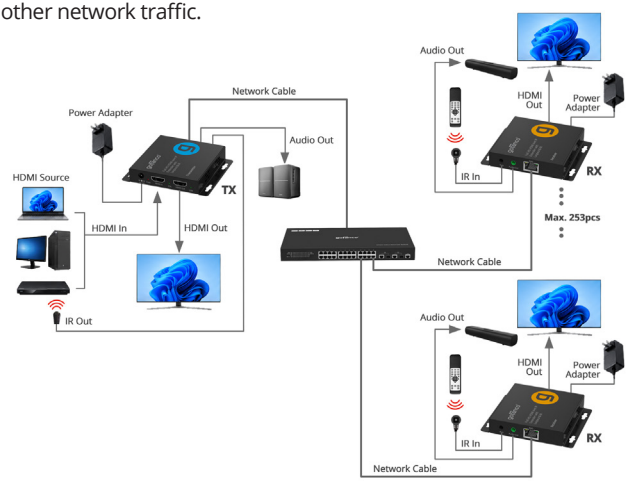


Figure 4: 1-to-Many Connection Application Diagram

Notes:

- Many-to-Many Connection: A managed Gigabit network switch with VLAN support is required. Create a separate VLAN for each transmitter and its corresponding receivers. Only one transmitter should be assigned to each VLAN.
- Additional receivers (P/N: EXHDIPPRO-200RX) are sold separately.

9. IR Application

Control Your HDMI Source from the Display Location

1. Connect the IR Blaster cable to the Transmitter's IR-TX port. Position the IR Blaster near the IR sensor on the HDMI source device.
2. Connect the IR Receiver cable to the Receiver's IR-RX port. Point the remote control toward the IR Receiver to control the HDMI source device from the receiver location

9.1 IR Pin Definition

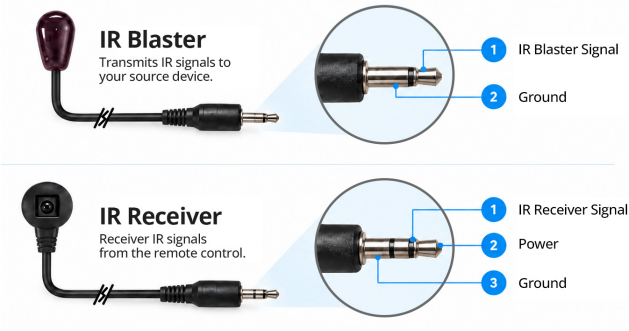


Figure 5: IR Cable Pin Definition

10. Frequently Asked Questions

Q1: The display shows “Please check the TX and RX connection.” What should I do?

A1: Make sure both the transmitter (TX) and receiver (RX) are powered on. Check that the Cat cable is securely connected to both units.

Q2: The extender is not working properly. What should I check?

A2: Make sure the HDMI cable length does not exceed 16.4ft (5m) and the Cat cable length does not exceed 656ft (200m). If the issue continues, press and hold the transmitter’s Reset button for approximately 5 seconds, then allow the system to reconnect.

Q3: There is no video on the remote display. What should I check?
A3: Make sure the source device and display are powered on and that all HDMI cables are securely connected. Also verify that the display is set to the correct HDMI input.

Q4: The video is flickering, unstable, or cutting in and out. What should I do?
A4: Check all cable connections and make sure the Cat cable is within the supported transmission distance. For best performance, use a high-quality Cat6 cable and avoid damaged cables, couplers, or excessive bends.

Q5: The IR remote control is not working. What should I check?
A5: Make sure the IR transmitter and IR receiver cables are connected to the correct ports. Place the IR emitter near the source device’s IR sensor and point the remote control at the IR receiver.

Q6: Why is there no audio from the 3.5mm audio output?
A6: Make sure the source device is set to PCM 2-channel audio. The 3.5mm audio output supports PCM 2CH audio only.

11. Disclaimer

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