HDMI 1.4 CAT Extender with Loopout

User's Guide

P/N: HD14Ext

G4-0117A

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 www.gofanco.com/downloads.

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 adapter only. Make sure the specification matches if using 3rd-party DC power adapters

Introduction

The HDMI 1.4 CAT Extender with Loopout extends HDMI transmission up to 164ft @4K and 230ft @1080p over CAT6/7.

Features

- Supports up to 4K @30Hz YUV 4:4:4, 1080p @60Hz YUV 4:4:4
- HDMI 1.4 and HDCP 1.4 compliant
- HDMI loop-out equipped on the TX
- Supports Power over Cable (PoC) and bi-directional IR
- Near zero latency
- Lightning/Surge/ ESD protection

Package Contents

- HDMI 1.4 CAT Extender with Loopout (1 Transmitter & 1 Receiver)
- 1x IR Blaster cable and 1x IR Receiver cable
- 1x Power adapter (5VDC/1A)
- User's guide

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 CAT6/7 cable following IEEE-T568B wiring standard

Product Layout

Transmitter TX Front and Rear Panel

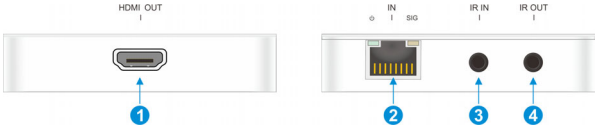
1. **HDMI Out**: Connects to an HDMI display for local monitoring of the remote display
2. **HDMI In**: Connects to your HDMI source
3. **EDID Management**:

   • **EDID Bypass**: Press the button to learn the EDID from the remote display connected to the Receiver's HDMI Out

   • **EDID Copy Loop-out**: Press and hold the button down for 3 seconds to copy the EDID from the local display connected to the Transmitter's HDMI out, or use built-in EDID (1080p, 2Ch) if no display is connected to the TX's HDMI Out (Loop-out)
4. **Power Jack**: Connects to the included power adapter

5. **RJ45 Out**: Connects to the Receiver's RJ45 In using a CAT cable. It supports PoC to power the Receiver. The orange LED illuminates when there is a valid HDMI signal. The Green LED illuminates when power is applied
6. **IR In**: Connects to the included IR Receiver cable to control the remote display device from the HDMI source location
7. **IR Out:** Connects to the included IR Blaster cable to control the HDMI source device from the remote display location

Receiver RX Front and Rear Panel



1. **HDMI Out**: Connects to your HDMI display
2. **RJ45 In**: Connects to the Transmitter's RJ45 Out using a CAT cable. It supports PoC to power the Receiver. The orange LED illuminates when there is a valid HDMI signal. The Green LED illuminates when power is applied

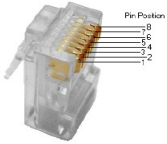
Product Layout Continued

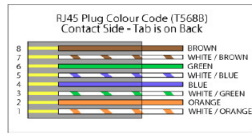
3. **IR In**: Connects to the included IR Receiver cable to control the HDMI source from the remote display device location
4. **IR Out**: Connects to the included IR Blaster cable to control the remote display device from the HDMI source location

CAT Cable Wiring

We suggest both RJ45 connectors be wired identically using T568B wiring standard for the best performance and compatibility.

Both connectors must be wired identically, to T568B standard.





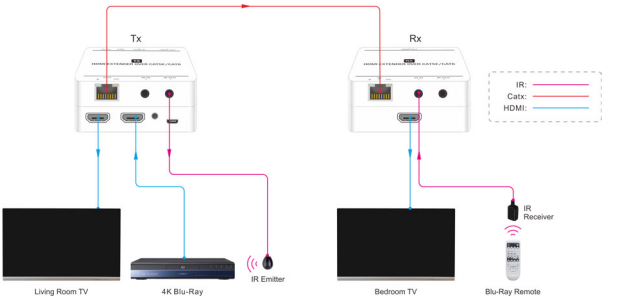
Note: *You may use cat5e, cat6 UTP (cat6 preferred) in conjunction with the RJ45 output; however for best performance use cat6a or cat7 (particularly in electrically noisy environments). The maximum distances & transmission performance for HDMI and USB may be compromised by cable quality, patch panels, 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.*

Hardware Installation

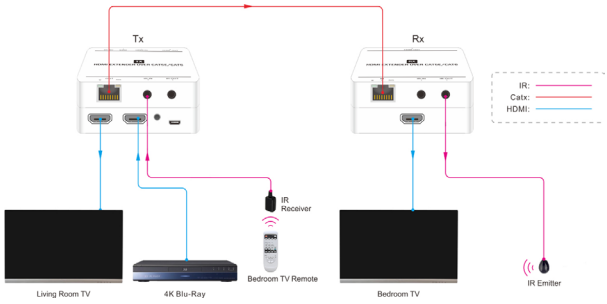
1. Power off all devices including your HDMI source and HDMI display(s).
2. Connect your HDMI source device to the Transmitter's HDMI In connector with an HDMI cable (HDMI cable not included).
3. Optional: Connect your HDMI display to the Transmitter's HDMI Out connector with an HDMI cable (HDMI cable not included) for local monitoring of the HDMI signal.
4. Optional: Connect the IR Blaster cable and IR Receiver cable. Face the IR eye towards your device's IR window. This connection is needed only if you need to control your HDMI device from the remote location. Please see the Connection Diagram on page 10 for proper connection.
5. Plug a CAT6/7 cable between the Transmitter's RJ45 Out and Receiver's RJ45 In.
6. Connect your HDMI display to the Receiver's HDMI Out connector with an HDMI cable (HDMI cable not included).

7. Plug the included power adapter into the Transmitter's power jack, then plug the power adapter into a reliable power source. One power adapter will power both the Transmitter and Receiver.
8. Power on all connected devices.
9. The HDMI extender is ready for use.

Connection Diagram



Source Device IR Control



Remote Display Device IR Control

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