



4K30Hz HDMI Extender with IR - 100m



G4-0169A

P/N: HD14EX-100

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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 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 put any items into the device or attempt to modify its operation.
- 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 power adapters only. Make sure the specification matches if using 3rd-party DC power adapters.

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1. Introduction

The 4K30Hz HDMI Extender with IR - 100m product is a tool to extend HDMI signal over long distance to a compatible display. It uses signal CAT5e/6 or higher level cables up to 100 meters to instead of expensive HDMI cable to transmit high definition signal.

HDMI signal is distributed from source device such as DVD, Satellite Receiver, Set Top Box, DV Camera, A/V Receiver and other HDMI enabled device to one or more high definition display device such as HDTV and HDMI Flat panel Display.

2. Features

- Supports HDMI 1.4 and HDCP 1.4 protocol
- Extends HDMI signals up to 100m (330ft) over CAT5e/6 cable
- Supports up to 4K30Hz YUV 4:4:4 and 1080p 60Hz YUV 4:4:4
- Transmitter supports HDMI loopout
- Supports IR signal extension - control a media player from a remote location with the included IR-TX and IR-RX cables
- Supports Power over cable (PoC) and 20-60KHz IR Passthrough
- Supports EDID select
- Easy to install, plug and play, no drivers needed
- Surface mountable metal housing

3. Installation Requirements

- HDMI source device (DVD player, set top box, PC, etc.)
- HDMI display devices (SDTV/Monitor, HDTV/ Monitor, projector, etc.)
- HDMI cables (not included)
- UTP/STP Cat 5e/6 cable, following IEEE-568B wiring standard

4. Package Contents

- 4K30Hz HDMI Extender with IR -100m (TX & RX)
- IR-TX cable (1pcs)
- IR-RX cable (1pcs)
- Power adapter 12V/1A (1pcs)
- User Manual

5. Product Layout



Figure 1: Transmitter (TX)

No.	Name	Function Description
1	Power Jack	Connect the included 12V/1A power adapter
2	PWR	LED on when the Transmitter is powered
3	HDMI In	Connect to the HDMI source with HDMI cable (cable not included)
4	IR Out	Connects to the IR-TX cable
5	HDMI Out	HDMI loopout output port
6	CAT	CAT5e/6 Transmitter port
7	EDID	720p/1080p/4K30Hz EDID Selection

Product Layout (Continued)



Figure 2: Receiver (RX)

No.	Name	Function Description
1	DC 12V	Connects to the included 12V/1A power adapter (Optional)
2	PWR	LED on when the Receiver is powered
3	HDMI OUT	Connects to your HDMI display with an HDMI cable (cable not included)
4	IR in	Connects to the IR Receiver cable
5	CAT	Connects to the RJ45 of the Transmitter using a CAT5/6 cable

6. Specifications

HDMI signal	HDMI 1.4, HDCP 1.4 compatible
Transmitter connector	1x 19-pin HDMI, Female, Input 1x DC 12V, Power jack 1x 3.5mm jack, IR Out 1x 19-pin HDMI, Female Loopout 1x 8-pin RJ45, Signal output 1x EDID button
Receiver connector	1x 19-pin HDMI, Female, Output 1x RJ45, Signal input 1x 3.5mm jack, IR In 1x DC 12V, Power jack
Resolution	480p, 576p, 720p, 1080p, 4K 30Hz
Transmission distance	Up to 330 ft (100m) 4K 30Hz
IR Remote control	Supports 20-60KHz wide frequency remote control
Audio spec	2-ch stereo audio
Operating temperature	5° F - 131° F (-15° - 55° C)
Storage Temperature	-4° F - 140° F (-20° - 60° C)
Power adapter	12V/1A
Dimensions	3.09" (L) x 0.67" (H) x 2.24" (W) (TX/RX)
Weight	TX / RX: 0.23 lbs

7. Hardware Installation

To achieve optimal performance, Cat 5e/6 cable is recommended.

1. Power off all devices including your HDMI source and HDMI display(s).
2. Connect your HDMI source to the Transmitter's HDMI In with an HDMI cable (HDMI cable not included).
3. Optional: Connect the IR-TX 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 at the remote location.
4. Plug your Cat 5e/6 cable between the Transmitter's RJ45 Out and Receiver's RJ45 In. Repeat this step for each Receiver connected.
5. Connect an HDMI display to transmitter and each Receiver's HDMI Out connector with an HDMI cable (HDMI cables not included).
6. Optional: Connect the IR-RX cable to the Receiver's IR In port. This connection is needed only if you need to control your HDMI source at the remote location.
7. Plug the included 12V/1A power adapter into the Transmitter's Power Jack and plug power adapters into reliable power outlets. Repeat this step for each Receiver connected.
8. Power on your HDMI source device and HDMI displays. The extender is ready for use.

8. 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 HDBiT 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.

9. Connection Diagram

Before installation, please ensure that all devices to be connected are turned off.

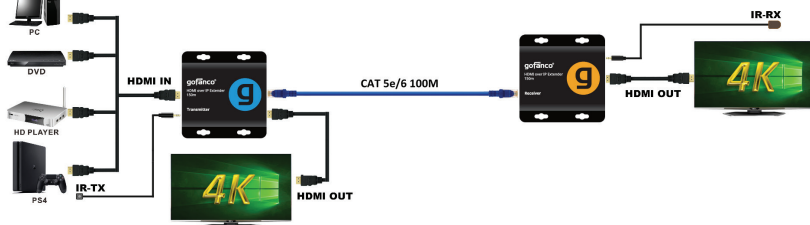


Figure 3: Connection Diagram

10. Disclaimer

The product name and brand name may be registered trademarks of related manufacturers. TM and ® may be omitted on the user's guide. The pictures on the user's guide are just for reference, and there may be some slight differences with the actual products. We reserve the right to make changes without prior notice to a product or system described herein to improve reliability, function, or design.



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