KanexPro®

HDMI Extender over CAT5/6 up to 164ft. (50m)

MPN: EXT-HD50C
VER 1.0

Thank you for purchasing this product

For optimum performance and safety, please read these instructions carefully before connecting, operating or adjusting this product. Please keep this manual for future reference.

Surge protection device recommended

This product contains sensitive electrical components that may be damaged by electrical spikes, surges, electric shock, lighting strikes, etc. Use of surge protection systems is highly recommended in order to protect and extend the life of your equipment.

Table of Contents

1. Introduction

This KanexPro HDMI Extender system (EXT-HD50C) can extend high definition video/audio signal and IR control signals up to 230ft/70m for 1080p resolution, and 131ft/40m for 4K30 resolution via a single CAT6 cable. The system is capable of zero-latency, uncompressed long-distance transmissions between the transmitter and receiver units. This extender features an HDMI loop output which can be cascaded to another pair of extenders, supporting resolution up to 4K@30Hz. The system supports EDID copy function (you can choose local or remote EDID). It supports audio formats up to PCM7.1, Dolby True HD, DTS HD. This product can be widely used in multi- media conference halls, TV teaching and large-screen displays.

2. FEATURES:

- HDMI 1.4 and HDCP 1.4 compliant
- Support video resolution up to 4K@30Hz
- The maximum transmission distance via a single CAT6/5E
- cable is as follows:
- CAT6: 230ft/70m for 1080p, 131ft/40m for 4K30 CAT5E: 197ft/60m for 1080p, 115ft/35m for 4K30
- Support copying EDID from receiver display or loop out display
- Allow for cascading via additional HDMI loop out port
- Compact design for easy and flexible installation
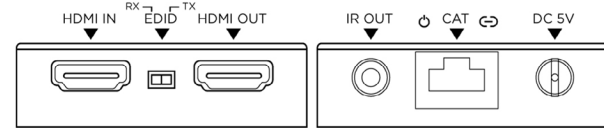
3. PACKAGE CONTENTS:

- 1x HDMI Transmitter
- 1x HDMI Receiver
- 1x IR Blaster Cable
- 1x IR Receiver Cable
- 2x 5V/1A DC Power Adapter
- 1x User Manual

4. SPECIFICATIONS:

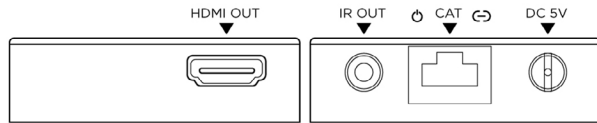| Technical	
HDMI Compliance	HDMI 1.4
HDCP Compliance	HDCP 1.4
Video Bandwidth	10.2Gbps
Video Resolution	Up to 4K@30Hz
Audio Support	Up to 7.1CH HD audio
Input TMDS Signal	3.3 volts
Input DDC Signal	5.0 volts/P-P
ESD Protection	Human body model: +/- 8KV (Air-gap discharge) +/- 4KV (Contact discharge)
Connection	

Transmitter	Input: 1 x HDMI Type A [19-pin female]
	Outputs: 1 x HDMI Type A [19-pin female]
	           1 x IR OUT [3.5mm Stereo Mini-jack]
	           1 x CAT OUT [RJ45, 8-pin female]

Reciever	Inputs: 1x IR IN [3.5mm Stereo Mini-jack] 1x CAT IN [RJ45, 8-pin female] Output: 1x HDMI Type A [19-pin female]
Mechanical	
Housing	Metal Enclosure
Silkscreen Color	Black
Dimensions	79.5mm (W) x 69mm (D) x 16.5mm (H)
Weight	Transmitter: 132g Receiver:130g
Power Supply	5V/1A DC
Power Consumption	Transmitter: 1.86W, Reciever: 0.87W
Operation Temperature	32 ~ 104°C / 0 ~ 40°F
Storage Temperature	-4 - 140°F / -20 - 60°C
Relative Humidity	20-90% RH (non-condensing)

5. Operation Controls and Functions:

5.1 Transmitter Panel

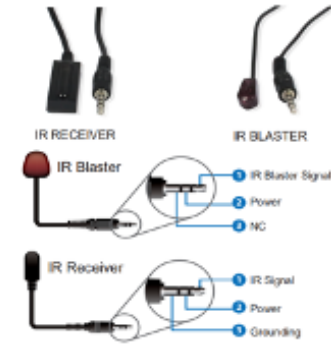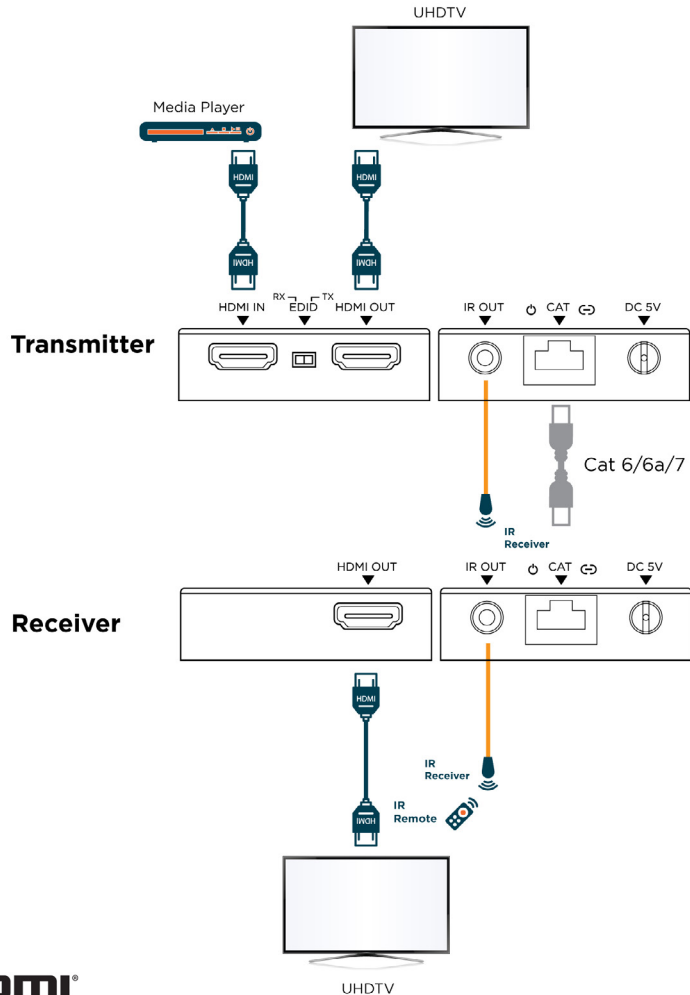| No.	Name	Function Description
1	HDMI IN	HDMI signal input port. Connect to HDMI source device such as DVD or Set-top box.
2	EDID DIP Switch	The switch is used for selecting EDID: Switch to the right position, the extender will copy HDMI loop out display EDID information to signal source; Switch to the left position, the extender will copy Receiver display EDID to signal source.
3	HDMI OUT	HDMI signal loop out port. Connect to HDMI display device such as HDTV.
4	IR OUT	Connect to IR blaster cable, the IR signal is from the IR IN port of the receiver.
5	Power LED	When the transmitter is powered on, the LED will be on.
6	CAT	CAT output port. Connect to the CAT input port of the receiver with CAT5E/6 cable.
7	Link LED	When the transmitter is connected to HDMI source, the LED will be on.
8	DC 5V	DC 5V power supply port.

5.2 Receiver Panel

No.	Name	Function Description
1	AUDIO OUT (COAX, L/R)	Coaxial/analog audio output port, connect to amplifier or speaker.
2	HDMI port	IN: HDMI input port, connect to HDMI source device such as DVD or set-top box with an HDMI cable.
3	CAT OUTPUT port (1-4)	Connect to the CAT IN port of the CAT receiver with a CAT cable.
4	Link Signal Indicator lamp (Green)	• Illuminate: Transmitter and receiver are connected. • Dark: Transmitter and receiver are not connected.
5	Data Signal Indicator lamp (Orange)	• Illuminating: HDMI signal with HDCP. • Flashing: HDMI signal without HDCP. • Dark: No HDMI signal.
6	IR OUT	Connect the IR Blaster cable to transmit IR signal from the CAT receiver.
7	DC 12V	Plug the DC 12V power supply into the unit and connect the adaptor to an AC outlet. *(Note: The transmitter can power the receiver via a CAT cable.)*

5.3 IR Pin Definition

IR Receiver and Blaster pin's definition is as below:

8. Application Example:

Transmitter

Receiver

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MPN: EXT-HD50C

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