



# HDMI 1.4 Video Extender

HDMI 1.4, Local Out, 1-Way IR, PoC, 70m



**DSG-HDMI-430C**

User Manual

VER 1.1



## 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 to protect and extend the life of your equipment.

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## 1. Introduction

This HDMI Video Extender can extend high-definition video/audio signal and IR control signals up to 70m (230 feet) for 1080p resolution, and 40m (131 feet) for 4K30 resolution via a single CAT6 cable. It can achieve zero-delay, uncompressed long-distance transmission between the Transmitter and Receiver. This Extender, with HDMI loop output can be cascaded to the next Extender, supporting resolutions up to 4K@30Hz. It supports EDID copy function (you can choose local or remote EDID) and audio formats up to PCM7.1, Dolby True HD, and DTS HD. This product can be widely used in multimedia conference halls, TV teaching, and large-screen displays.

## 2. Features

- ☆ HDMI 1.4, HDCP 1.4 and DVI 1.0 compliant
- ☆ Supports video resolutions up to 4K@30Hz YUV 4:4:4
- ☆ 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



- ☆ Supports copying EDID from Receiver display or Loop Out display
- ☆ Allows for cascading via additional HDMI Loop Out port
- ☆ Supports one-way PoC functionality (from Transmitter to Receiver)
- ☆ One-way IR signal transmission
- ☆ Compact design for easy and flexible installation

### 3. Package Contents

- ① 1 x HDMI Transmitter
- ② 1 x HDMI Receiver
- ③ 1 x IR Blaster Cable (1.5 meters)
- ④ 1 x IR Receiver Cable (1.5 meters)
- ⑤ 1 x 12V/1A DC Power Adapter
- ⑥ 1 x User Manual



## 4. Specifications

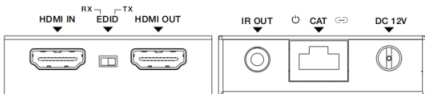
<b>Technical</b>	
HDMI Compliance	HDMI 1.4
HDCP Compliance	HDCP 1.4
Video Bandwidth	10.2Gbps
Video Resolution	Up to 4K@30Hz
Audio Support	Up to 7.1CH HD audio
Input TMDS Signal	3.3 volts
Input DDC Signal	5.0 volts/P-P
ESD Protection	Human Body model: +/- 8 kV (air-gap discharge) +/- 4 kV (contact discharge)



<b>Connections</b>	
Transmitter	Input: 1 x HDMI Type A [19-pin female] Output: 1 x HDMI Type A [19-pin female] 1 x IR OUT [3.5mm Stereo Mini-jack] Network: 1 x CAT [RJ-45, 8-pin female]
Receiver	Input: 1x IR IN [3.5mm Stereo Mini-jack] Output: 1x HDMI Type A [19-pin female] Network: 1x CAT [RJ-45, 8-pin female]
<b>Mechanical &amp; Environmental</b>	
Housing	Metal Enclosure
Color	Black
Dimensions	TX & RX: 79.5mm[W] x 69mm[D] x 16.5mm[H]
Weight	Transmitter: 132g, Receiver: 130g
Power Supply	12V/1A DC
Power Consumption	Transmitter: 1.86W, Receiver: 0.87W
Operating Temperature	32 to 104°F / 0 to 40°C
Storage Temperature	-4 to 140°F / -20 to 60°C
Relative Humidity	20 to 90% RH (non-condensing)

## 5. Operation Controls and Functions

### 5.1. Transmitter Panel



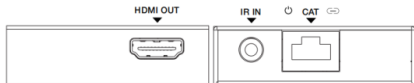
No	Label	Function Descriptions
1	HDMI IN	HDMI signal input port. Connects to HDMI source device such as DVD or Set-top box.
2	EDID DIP switch	The switch is used for selecting EDID: Switch to the right position, the extender will copy HDMI loop out display's EDID information to signal source; Switch to the left position, the extender will copy Receiver display's EDID to signal source.
3	HDMI OUT	HDMI signal loop out port. Connects to HDMI display device such as HDTV.
4	IR OUT	Connects 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. Connects 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 12V	DC 12V power supply port.



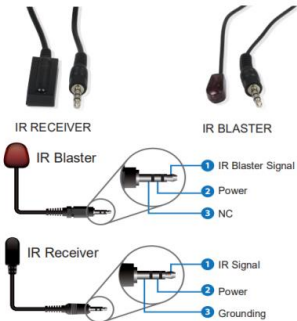
## 5.2. Receiver Panel



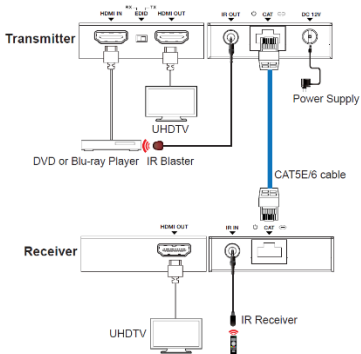
No	Label	Function Descriptions
1	HDMI OUT	HDMI signal output port. Connects to HDMI display device such as HDTV.
2	IR IN	Connects to IR receiver cable, the IR signal will emit to the IR OUT port of the Transmitter.
3	Power LED	When the Receiver is powered on, the LED will be on.
4	CAT	CAT input port. Connects to the CAT output port of the Transmitter with CAT5E/6 cable.
5	Link LED	When the Receiver is connected to HDMI source, the LED will be on.

### 5.3. IR Pin Definition

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



## 6. Application Example



**HDMI™**  
HIGH-DEFINITION MULTIMEDIA INTERFACE

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