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	Record page			
No.	Revised summary description	Version	Revise person	Revised Date
1	Initial version	1.0	刘晨风	2018-11-16

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Approval:	Approve by:	Issue:刘晨风
Date:	Date:	Date: 2018/11/16

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HDMI2.0 Extender over Single CAT6 with IR Control



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User Manual

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

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life of your equipment.

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1. Introduction

The HDMI Extender over Single Cat6 extends high definition video and audio

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signals and one-way IR, at a distance of up to 164ft/50m over a single Cat6 cable. With only one cost effective Cat6 cable, high definition sources with HDMI outputs can be connected to high definition displays with HDMI inputs over long distances. DTS-HD or Dolby TrueHD audio is supported and compatible with the extender. In addition, the extender is also equipped with one-way pass-through IR which allows for source control and one HDMI loop output. The extender includes two units: transmitting unit and receiving unit. The Transmitting unit is responsible for capturing the HDMI input and carries the signals via one cost effective Cat6 cable, and reconstructing IR control signals. The receiving unit is responsible for equalizing the transmitted HDMI signal and transmitting IR control signals. The extender can copy the EDID signal from transmitter's or receiver's display device to source device by dip switch with the transmitter end, The extender offers the most convenient solution for HDMI extension over a single Cat6 with long distance capability, and is the

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perfect solution for any application.

2. Features

- ☆ HDMI 2.0, HDCP 2.2/HDCP 1.4 and DVI 1.0 compliant
- ☆ Supports 18Gbps bandwidth
- Supports input and output video resolutions the maximum up to 4k2k@60Hz

 RGB/Ycbcr 4:4:4/Ycbcr 4:2:2, extends distance the furthest up to 164ft/50m
- ☆ Supports one route HDMI loop output
- ☆ Supports one-way IR control
- ☆ Supports HDR function
- Supports copy the EDID signal from transmitter's or receiver's display device

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☆ Compact design for easy and flexible installation.

3. Package Contents

- ① 1× HDMI2.0 Extender Transmitter
- ② 1× HDMI2.0 Extender Receiver
- ③ 1× Wideband IR Blaster cable
- 4 1× Wideband IR Receiver cable
- ⑥ 1× User Manual

4. Specifications

Technical	
HDMI Compliance	HDMI 2.0

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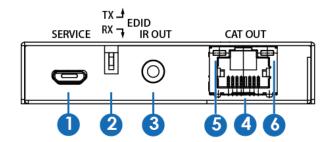
HDCP Compliance	HDCP 2.2/HDCP 1.4		
Video Bandwidth	18Gbps		
Video Resolution	Up to 4K60Hz 4:4:4		
Color Space	RGB/YCbCr 4:4:4, YCbCr 4:2:2, YUV 4:2:0		
Color Depth	8/10/12-bit		
HDMI Audio Formats	LPCM, Dolby Digital/Plus/EX, Dolby True HD, DTS,		
	DTS-EX, DTS-96/24, DTS High Res, DSD-HD Master		
	Audio, DSD		
ESD Protection	Human body model— \pm 8kV (Air-gap discharge) &		
	\pm 4kV (Contact discharge)		
Connections			
Transmitter	Inputs: 1x HDMI Type A [19-pin female]		
	1x SERVICE [Micro USB, Update port]		
	Outputs: 1x HDMI Type A [19-pin female]		
	1x IR OUT [3.5mm Stereo Mini-jack]		
	1x CAT OUT [RJ45, 8-pin female]		
Receiver	Inputs: 1x IR IN [3.5mm Stereo Mini-jack]		
	1x CAT IN [RJ45, 8-pin female]		
	1x SERVICE [Micro USB, Update port]		
	Outputs: 1x HDMI Type A [19-pin female]		

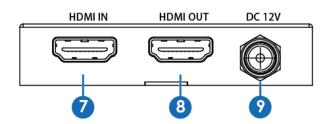
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Mechanical	
Housing	Metal Enclosure
Silkscreen Color	Black
Dimensions	101.5mm [W] x 69.3mm [D] x 13.3mm [H]
Weight	Transmitter: 150g, Receiver: 144g
Power Supply	Input: AC100 - 240V 50/60Hz, Output: DC 12V/1A
	(US/EU standards, CE/FCC/UL certified)
Power Consumption	6.36W
Operation Temperature	32 - 104° F / 0 - 40° C
Storage Temperature	-20° C~60° C/-4° F~140° F
Relative Humidity	20~90% RH (non-condensing)

5. Operation Controls and Functions

5.1 Transmitter Panel





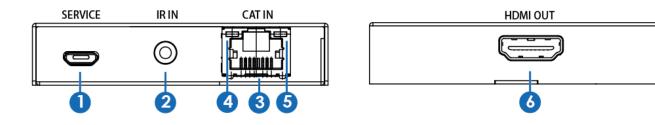
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Number	Name	Function description		
1	SERVICE port	For firmware updated use.		
2	COPY TX / RX	• When in "TX" position, the unit will copy the EDID		
		setting of the HDMI loop output display device to		
		source device. The source device will send again		
		matching the loop output display device audio / video		
		signal to all HDMI outputs.		
		• When in "RX" position, the unit will copy the EDID		
		setting of the HDMI output display device on the		
		receiving end to source device. The source device		
		will send again matching the HDMI output display		
		device on the receiving end audio / video signal to		
		all HDMI outputs.		
3	IR OUT	Connect to wideband IR Blaster cable.		
4	CAT OUT	Connect to CAT IN port on the receiving end with a CAT6		
		cable.		
5	Power Indicator	The lamp will illuminate when the transmitter is power		
	Lamp	on.		
6	Connection signal	The lamp will illuminate when the transmitter and		
	Indicator Lamp	the receiver have signal transmission.		

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7	HDMI IN	HDMI input port, connect to HDMI source device
		such as DVD or PS4 player with an HDMI cable.
8	HDMI OUT	HDMI loop output port, connect to HDMI display
		device such as TV or Projector with an HDMI cable.
9	DC 12V	Plug the 12V/1A adapter to AC wall outlet for power
		supply.

5.2 Receiver Panel



Number	Name	Function description
1	SERVICE port	For firmware updated use.
2	IR IN	Connect to wideband IR Receiver cable.
3	CAT IN	Connect to CAT OUT port on the transmitter end
		with a CAT6 cable.
4	Power Indicator	The lamp will illuminate when the receiver is power

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	Lamp	on.
5	Connection signal Indicator Lamp	The lamp will illuminate when the transmitter and the receiver have signal transmission.
6	HDMI OUT	HDMI output port, connect to HDMI display device such as TV or Projector with an HDMI cable.

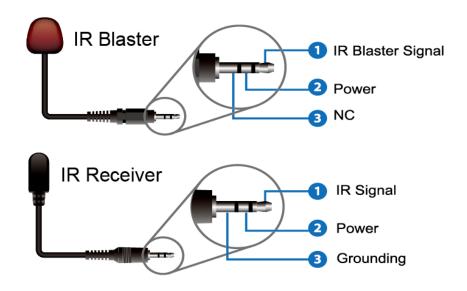
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5.3 IR Pin Definition

IR Receiver and Blaster pin's definition as below:



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6. Application Example

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