

HDMI + IR EXTENDER

SINGLE CAT5E CABLE

USER MANUAL

20140922

1. Introduction

With 50M/100M IR HDMI Extender, your HDMI displays can be located up to 50/100 meters away from the HDMI source device. Just by using single one Cat 5e/6 cable, which is economic and easily available. In addition, you can enjoy the function via IR control. It carries an Ethernet pass-through port for Internet connectivity, making it easy for go online when necessary. It supports IR signaling pass-through, allowing you to control the HDMI source device from the remote unit while also gaining access to the HDMI display device from the local unit. HDMI (3D, Deep Color) and HDCP compatible, ensuring superior video quality.

2. Specification

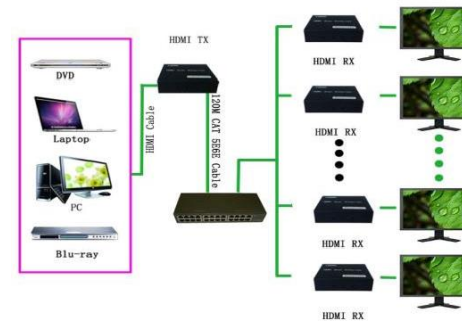
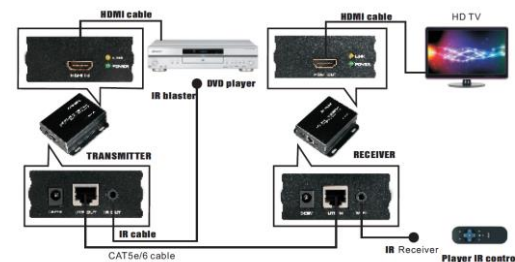
Model No.	50m / 100m	
Interface	Transmitter	HDMI input, IR output (3.5mm), IR input (3.5mm), RJ45 Ethernet interface, 5V DC in
	Receiver	HDMI input, IR output (3.5mm), IR input (3.5mm), RJ45 Ethernet interface, 5V DC in
Power	<3.5W TX or <2.5W RX	
Video bandwidth	Maximum TMDS clock frequency 165MHz, 4.95Gbps	
Resolution & distance	1080P 3D 50m 100m	
Audio formats	8-channel, support Dolby TrueHD and DTS Master	
TMDS input signal	1.2 volts (point to point)	
DDC input signal	5 volts (point to point)	

Indicator	Power- Red , Video link- Blue
HDMI interface standard	HDMI 1.3 standard (HDMI 1.4 3D function), HDCP 1.2, support CEC, EDID
Remote IR	38KHz
Temperature range	0 ~ 40 °C (operation), -20~60 °C(stock)
Compliance	FCC; CE; RoHS

3. Features

- Extending distance is 330ft (100 meters) at resolutions 1080P by CAT5e/6 Cable. Support point-to-point, point to multipoint and cascade transmission mode
- Support Audio formats, Dolby True HD, DTS-master, etc
- Support 3D signals (all 7 formats), such as Frame Packing, Side-by-Side, Top-to-Bottom, etc.
- Support EDID call back
- Support CEC pass through
- VESA DDC and hot swap technology (HPD)
- Bi-direction remote IR (RX -> TX and TX -> RX).
- HDCP 1.2 compatible
- Compatible DVI 1.0
- Support cascade to enhance extending distance.
- Industrial metal case, easy to install

4. Connection Diagram



(NOTE: 50m not available with the mode)

5. Package Content

- 1 unit of transmitter, 1 unit of receiver
- 1 unit of IR transmitter, 1 unit of IR receiver
- 2 units of DC 5V 2A adapter
- 1 user manual

6. Trouble Shooting

1. No output on display terminals
Check transmitter and receiver power first. And then check if transmitter unit video indicator is on. If it is not, please check video source. If it is, check receiver unit video indicator. If receiver video indicator is not on, please check Cat5e/6 cable. If length of cable is longer than maximum distance, the system is not workable. Refer to manual parameters segment to get more details of distance. If receiver video indicator is on, please check HDMI cable and display terminal.

2. Remote IR is not workable
Check transmitter and receiver power first. Ensure both TX and RX power and video indicators are on. And then please check Cat5e/6 cable. Check if IR blaster unit connects to extender receiver unit, and close to display terminals. And check if remote controller faces to IR receiver.