

# HDMI Extender over TCP/IP

## USER MANUAL

### 1. Description

---

HLHC100B HDMI extender provides extension of HDMI signals long distances over a single CAT5e/6 cable, it supports high resolution up to 1920\*1080@60Hz and IR signal transmission. The extender can use for a wide range of applications requiring long distance transmission of high resolution with high quality by its good stability and powerful security.

### 2. Features

---

- Transmits HDMI video and audio signals up to 120m over a single CAT5e/6 cable;
- Support video resolution up to 1920\*1080@60Hz;
- Support IR signal transmission;
- Support over TCP/IP, one to many application with Ethernet switch;
- Compliance with HDMI 1.3 and HDCP 1.2 standard;
- High compatibility, can auto-match source and display device;
- Built-in automatic adjustment system, make the image smooth, clear and stable;
- Built-in ESD protection system;
- Simple to install, plug and play;

### 3. Specifications

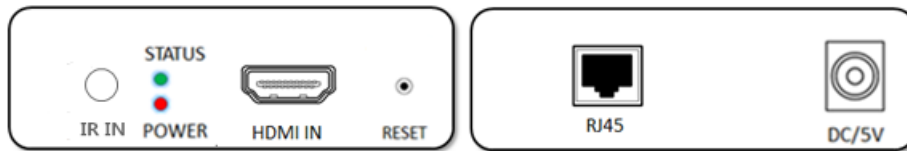
---

	Parameter	Description
Video	Standards	HDMI 1.3; HDCP 1.2
	Maximum pixel clock	165MHz
	Maximum data rate	6.75Gbps
	Resolution	1920X1080@60Hz
	Connector	HDMI-A
	Impedance	100Ω
IR	Interface	3.5mm earphone seat
	Signal direction	Unidirectional
	Signal type	Digital
	IR frequency	38khz( <b>standard</b> ) ; 20-60KHz ( <b>Can be customized</b> )
Ethernet	Interface	RJ45
	Transmission distance	CAT5e/6 - 120m
Other	Power supply	The power adapter: DC 5V/1A
	Power dissipation	MAX 3W
	Temperature	Operating: -5℃ ~ +70℃
	Humidity	Operating: 5% ~ 90%
	Dimension	100*60*25mm
	The warranty	1 year free warranty

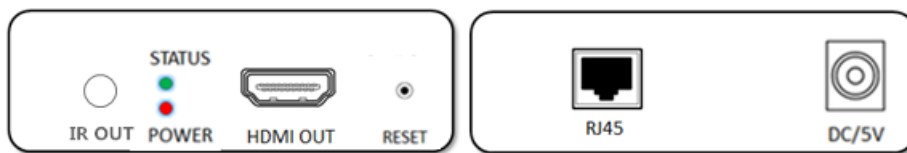
#### 4. Panel

---

Transmitter :



Receiver :



Port name	Description
HDMI IN/OUT	HDMI signal input/output
IR IN/OUT	IR signal input/output
RJ45	Ethernet interface
DC/5V	Power adapter socket
RESET	Press for 5 second to restore system setting to factory default
LED indicator	Description
STATUS	Video signal connection indicator
POWER	System power indicator

#### 5. Package list

---

- HDMI transmitter ..... 1 pc
- HDMI receiver ..... 1 pc
- Power adapter ..... 2 pcs
- IR TX/RX terminal ..... 1 set
- User manual ..... 1 pc

## 6. Installation

---

- 1、 Connect the provided DC/5V power supplies to the power socket of the transmitter and the receiver,
- 2、 Connect an HDMI cable between the HDMI input port of transmitter and the HDMI output port of the video source,
- 3、 Connect the HDMI output port of receiver to the display device with HDMI cable,
- 4、 Connect the transmitter RJ45 port to the receiver RJ45 port using a single CAT5e/6 cable.

## 7. Diagram

---



Distributed by

**ULTRALINK SOLUTIONS**  
SENSE, CONNECT, SECURE



Phone: 0415 468 731, Email: [sales@ultralinks.com.au](mailto:sales@ultralinks.com.au)  
Suite 1A Level 2, 802 Pacific Highway, Gordon NSW 2072  
[www.ultralinks.com.au](http://www.ultralinks.com.au)