

## USER MANUAL

### 150M HDMI **OVER** IP EXTENDER

#### 1. Introduction

150M HDMI IP Extender is based on TCP/IP standard. It transmits your HD display with the high resolution up to 150 meters away from your DVD or computer source by using one CAT5e/6 cable. At the same time, it's convenient to transmit HDMI audio and video source by point-to-point mode, one point-to-multi point mode and cascade connection mode.



#### 2. Features:

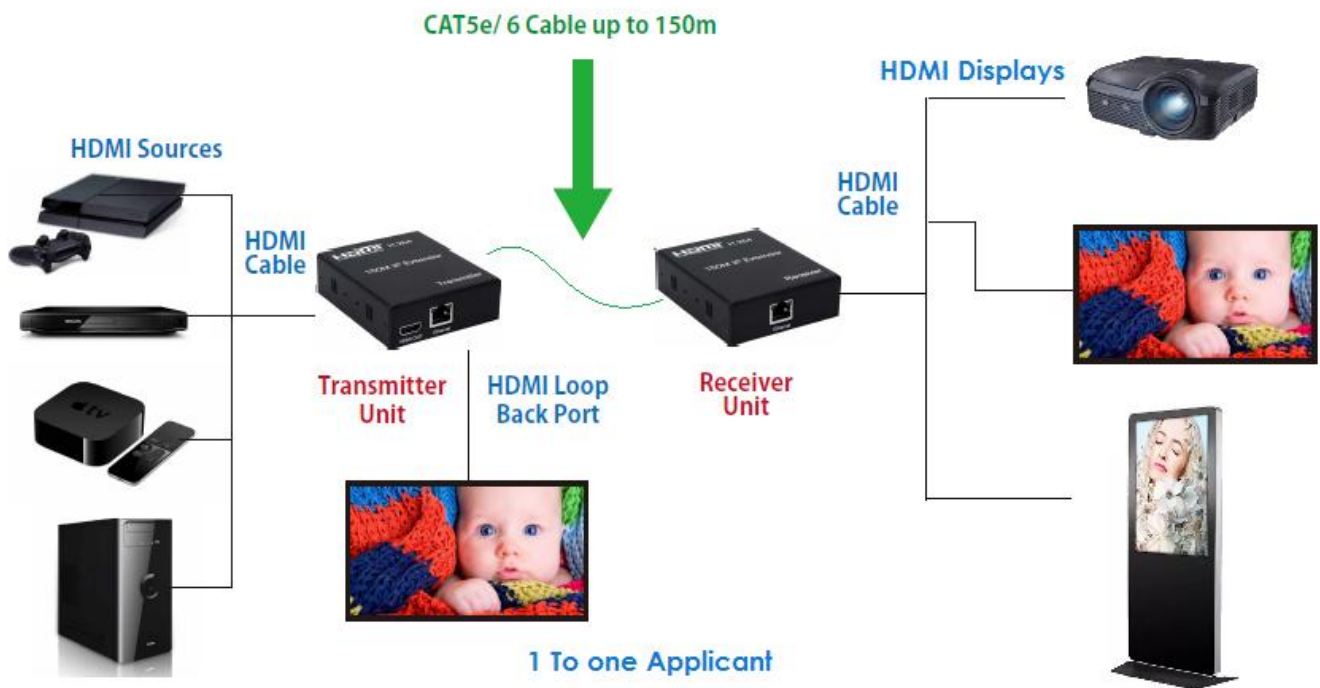
- \* Support HDMI 1.3
- \* Max. transfer distance up to 150m
- \* H.264 code transmission, transmission rate 8.1Mbps.
- \* Support point-to-point mode, one-to-multi point mode and cascade connection mode.
- \* 802.3 Ethernet standard.
- \* Support IR remote control.
- \* The transmitter support HDMI loop-out function.
- \* Plug and play, no need for additional software.

### 3. Connection and operation

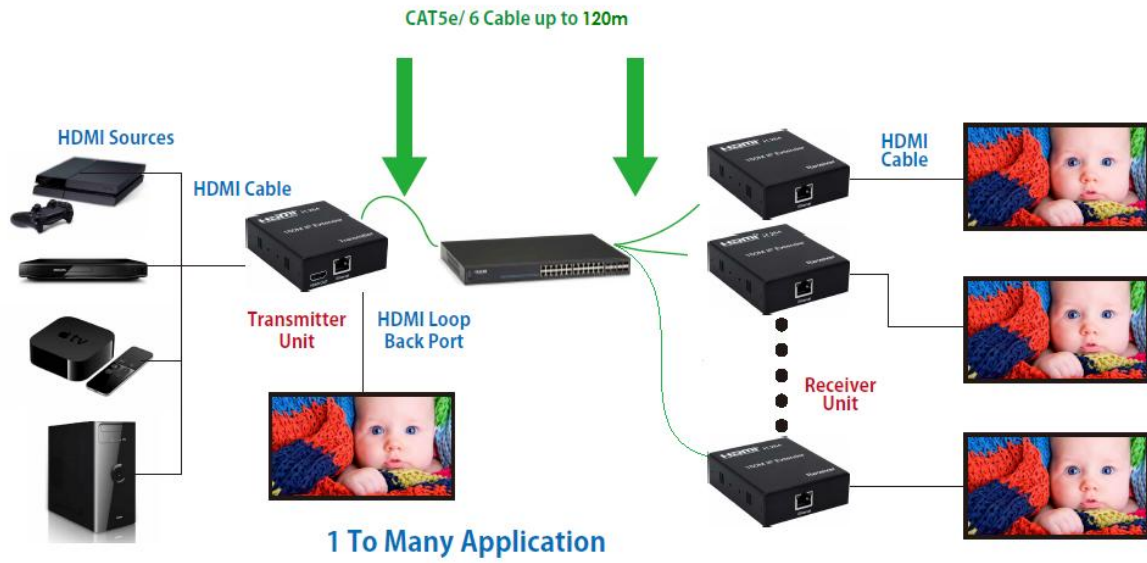
- 1) Connect the HDMI source (such as DVD, PS3, STB ) to the "HDMI IN" of transmitter by HDMI cable.
- 2) Connect the "HDMI out" of Receiver to HDTV display by HDMI cable.
- 3) Connect the Transmitter and Receiver with one cat5e/6 cable (recommend) up to 150M.
- 4) Connect the "IR receiver "into "IR-RX" port on receiver, and "IR transmitter" into the "IR-TX" on transmitter, and make sure the IR transmitter aim at IR port of the source
- 5) Connect two pieces of 5V power supply to the transmitter and receiver, and power on the HDTV display and HDMI source.

### 4. Application diagrams:

#### \*One to one application:



**\*One to many application**

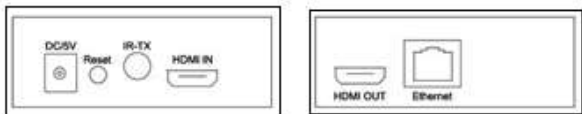


## 5. Specifications

HDTV Resolutions	480p,720p,1080p
Audio	Sample rate:32kHz,44.1kHz and 48kHz code
IR remote control	16M BPS
HDMI version	HDMI 1.3
Power adapter	DC:5V/1A
Power consumption	HDMI sender:3W HDMI receiver:3W
Size(L-W-H)	93*79*27mm
Weight	228g x 2
Operating Temperature/Humidity	0°C-45°C/10%-80%RH(no condensation)
Storage Temperature/Humidity	-10°C-70°C/5%-90%RH(no condensation)

6. Interface Introduction:

HDMI Transmitter

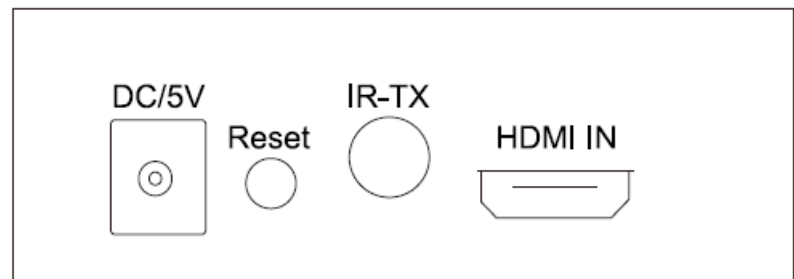


Port	Description
DC/5V	5V power supply for the Transmitter
Reset	Press the key,the device will re-start
IR-TX	Connect IR transmitter
HDMI - IN	HDMI input ,connect HDMI signal source
HDMI - OUT	HDMI output, connect HDMI display device
Ethernet	Network interface by cat5e/6

HDMI Receiver:



Port	Description
DC/5V	5V power supply for the receiver
Reset	Press the key,the device will re-start
IR-RX	Connect IR receiver
HDMI -OUT	HDMI output, connect HDMI signal device
Ethernet	Network interface by cat5e/6



## 7. Package contents:

- 1) 1pc x Transmitter
- 2) 1pc x Receiver
- 3) 2pcs x 5V/1A Power adapters
- 4) 1pair x IR cable
- 5) 1pc x User's Manual

### Reminder for 1 to many and many to many setting:

It must reset IP address & MAC address and pairing settings in Multicast config. Otherwise, it will no video display or display delay.

Please see below Step1, 2, 3, 4.

### Factory default as follow:

TX :

IP:	192.168.1.166
Subnet mask:	255.255.255.0
Default gateway:	192.168.1.1
MAC address:	000000AA35AB

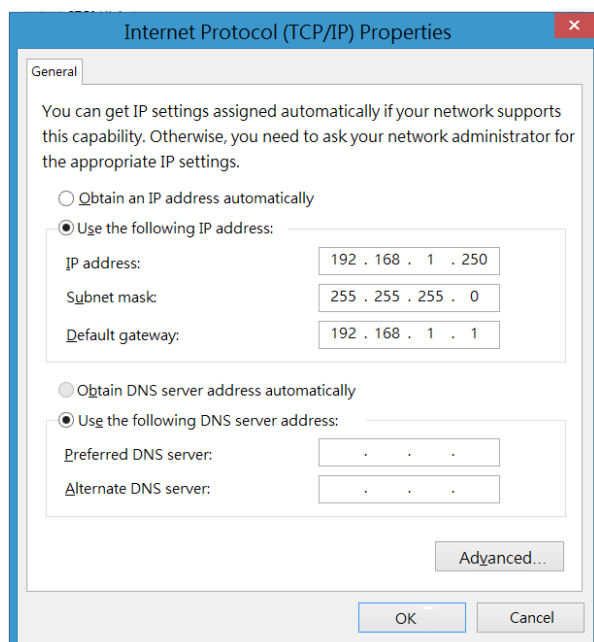
RX:

IP:	192.168.1.167
Subnet mask:	255.255.255.0
Default gateway:	192.168.1.1
MAC address:	0000003A35A9

### Step 1. Use an Ethernet cable to connect PC (or Laptop) and RX

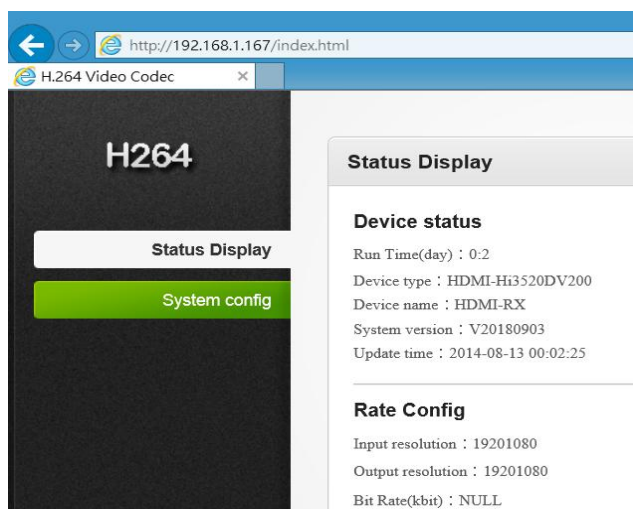


## Step 2. Set up PC's IP address



The image shows the 'Internet Protocol (TCP/IP) Properties' dialog box. The 'General' tab is selected. It contains instructions about automatic IP assignment and two radio buttons: 'Obtain an IP address automatically' (unselected) and 'Use the following IP address:' (selected). Below the selected option are three input fields: 'IP address' (192 . 168 . 1 . 250), 'Subnet mask' (255 . 255 . 255 . 0), and 'Default gateway' (192 . 168 . 1 . 1). There is also a section for DNS server addresses with 'Obtain DNS server address automatically' (unselected) and 'Use the following DNS server address:' (selected), followed by 'Preferred DNS server' and 'Alternate DNS server' fields. At the bottom right is an 'Advanced...' button. At the very bottom are 'OK' and 'Cancel' buttons.

## Step 3. Default IP address for RX : 192.168.1.167



The image shows a web browser window displaying the H264 web interface. The address bar shows 'http://192.168.1.167/index.html'. The page has a dark sidebar on the left with 'H264' at the top, and two buttons: 'Status Display' and 'System config' (highlighted in green). The main content area is titled 'Status Display' and contains two sections: 'Device status' and 'Rate Config'. The 'Device status' section lists: Run Time(day) : 0:2, Device type : HDMI-Hi3520DV200, Device name : HDMI-RX, System version : V20180903, and Update time : 2014-08-13 00:02:25. The 'Rate Config' section lists: Input resolution : 19201080, Output resolution : 19201080, and Bit Rate(kbit) : NULL.



#### Step 4. Set up IP and MAC address for RX

##### - Network config

① IP address: 192.168.1.XXX (XXX: range is 1~255, except: 166 & 167)

② MAC address is composed of 12 digits of English plus numbers.

The IP address and MAC address of each Receiver can not be same.

##### - Set up

Network config

Network port

① IP : 192.168.1.XXX

Subnet mask : 255.255.255.0

Default gateway : 192.168.1.1

② MAC address : 0000003A35A9

③ SET UP

Message

! Set up successfully, please reboot the device !

OK

##### - Reboot

Reboot

Clicking this button device will reboot.

Reboot

Message

! Reboot Successfully.

OK



**H264**

Status Display

System config

Network config

**Multicast config**

Output display config

IR remote control config

System update

Reset

Reboot

**Multicast config**

Enable: ☒

IP: 224.168.1.166

Port: 30000 (30000-30255)

SET UP

HDMI-TX list

index	multicast source	port

## Other Settings:

### ● Setup Output Resolution

Select "INPUT" follow TX resolution, other select is 720P/1080P .....

**H264**

Status Display

System config

Network config

**Output display config**

Output Mode: HDMI

Output resolution: input

SET UP

HDMI  
DVI

1080P@60  
720P@60  
1440x900@60  
1024x768@60  
1080p@50  
720P@50  
input

### ● Firmware Upgrade

Select the latest firmware version, and UPGRADE.

**H264**

Status Display

System config

Network config

Output display config

IR remote control config

**System update**

The current version of the system:

System update: 选择文件 HDMI-DVR-APP (Upgrade the same time, do not power off while on the upload pr

UPGRADE

### ● RESET

**H264**

Status Display

System config

Network config

Output display config

IR remote control config

System update

**Reset**

Reset

Clicking this button will restore all settings of the encoder to the factory default state.

## Troubleshooting Guide:

**Status A** : 1. No signal display on the local Monitor or Remote Monitor  
2. After Extender is powered on, it reboot again and again  
3. The Power LED on Extender is not light on

**Problem** : Power adapter is not with correct currency

**Action** : Change Power Adaptor that we ship to you as replacement last time

**Status B** : 1. No signal display on the Monitor that link to Tx's HDMI local port  
2. The Monitor link to HDMI local port is with message " no signal input"  
3. The LED on Tx's RJ45 Port is not flashed

**Problem** : Tx is not working

**Action** : Replace Tx with the one working well

**Status C** : 1. No signal display on the Monitor that link to Rx's HDMI output port  
2. The LED on Rx's RJ45 Port is not flashed

**Problem** : Rx is not working

**Action** : Replace Rx with the one working well

**Status D** : 1. When user link 1 Tx to more than 3 Rx, the Video display is not moving smoothly  
2. When Power On/ Of Tx and Rx, sometimes there are no display on the Monitors

**Problem** : F/W is not the latest version

**Action** : Upgrade the F/W

The latest F/W, please refer to below link:

<https://www.asuswebstorage.com/navigate/a/#/s/27DFCDA97D714B6D9D06D0A9240CFF654>