

## MAINTENANCE

Clean this unit with a soft, dry cloth. Never use alcohol, paint thinner or benzene to clean this unit.

## PRODUCT SERVICE

1) **Damage requiring service:** The unit should be serviced by qualified service personnel if:

- (a) The DC power supply cord or AC adaptor has been damaged;
- (b) Objects or liquids have gotten into the unit;
- (c) The unit has been exposed to rain;
- (d) The unit does not operate normally or exhibits a marked change in performance;
- (e) The unit has been dropped or the cabinet damaged.

2) **Servicing Personnel:** Do not attempt to service the unit beyond that described in these operating instructions. Refer all other servicing to authorized servicing personnel.

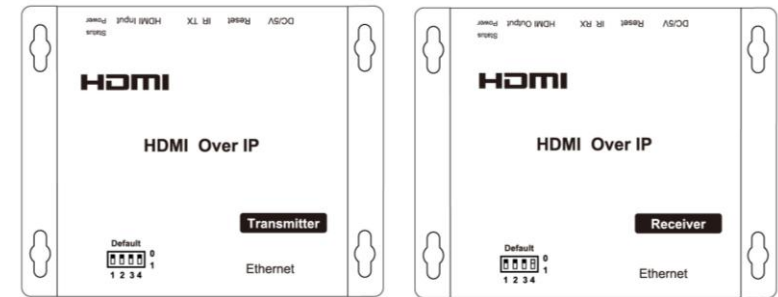
3) **Replacement parts:** When parts need replacing ensure the servicer uses parts specified by the manufacturer or parts that have the same characteristics as the original parts. Unauthorized substitutes may result in fire, electric shock, or other hazards.

4) **Safety check:** After repairs or service, ask the servicer to perform safety checks to confirm that the unit is in proper working condition.

## HDMI Extender over Ethernet

MODEL:LM-EP22

### Operating Instructions



### Dear Customer

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.

### FEATURES

- Compliant HDCP.
- Flexible and scalable HDMI 1080p High Quality Video Broadcasting with Gigabit Ethernet LAN.
- Extends 1080p HDMI signals up to 120m over a single UTP Cat5e/6 cable.
- Multicasting and broadcasting architecture, adding more displays without adding LAN bandwidth loading.
- Support Point-to-Point, Point-to-Many and Many-to-Many network configuration.
- Dual power input: 802.3af compliant PoE & DC5V.
- Up to 8 transmitters and more than 200 receivers possible in a single system.

- With IR Control function ,it allows you control back the source at the end of destination
- Built-in DIP switch to change Group ID and Utility for remotely
- Support IGMP v.1 &v.2 address
- Support cascading Ethernet Switches up to 3 layers.

## NOTICE

Our company reserve the right to make changes in the hardware, packaging and any accompanying documentation without prior written notice.

1

Operating Instructions

## TABLE OF CONTENTS

Specifications  
 Package Contents  
 Panel Descriptions  
 Connecting and Operating  
 Typical Application  
 Maintenance  
 Product Service  
 Warranty

## SPECIFICATIONS

Operating	-5 to +35°C (+23 to +95°F)
Operating Humidity	5 to 90%RH (No Condensation)
Support Video Format	DTV/HDTV:480i/576i/480P/576P/720P/1080i/1
Output Video	HDMI,HDCP
Audio Sampling rate	32kHz, 44.1kHz and 48kHz
Transmission	1080P @60Hz120m(Maximum) over single
Power consumption	5V/1A DC , 802.3af PoE Power consumption: Max. 8W
Dimension (L×W×H)	L94xW93.5x24.6mm
IR frequency range	38-56kHz
Net Weight	Receiver:255g,Transmitter:255g
TX&RX	Default IP address:192.168.168.55;MAC address:00:0b:78:00:60:01 Default IP address:192.168.168.56;MAC address:00:0b:78:00:60:02

Note1: Specifications are subject to change without notice. Mass and dimensions are approximate.

Note2:one TX to many RX or many TX connect to many RX, IP and MAC address must be different.

## PACKING CONTENTS

- 1) Main Unit. Transmitter & Receiver HDMI Extender
- 2) Power adapter DC 5V 1Ax2PCS
- 3) IR-TX cable&IR-RX cable
- 4) Operating Instructions

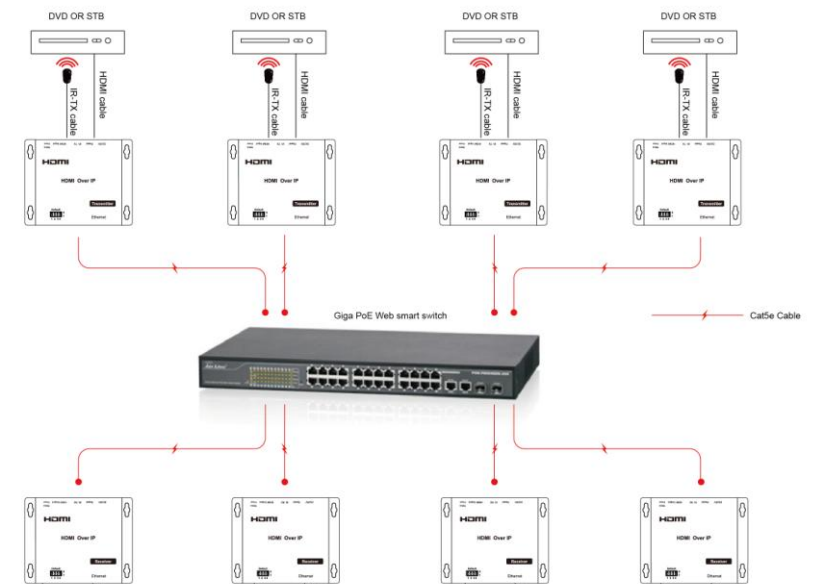
2

Operating Instructions

## How to Connect the HDMIPLR HDMI Over CAT6 Extender

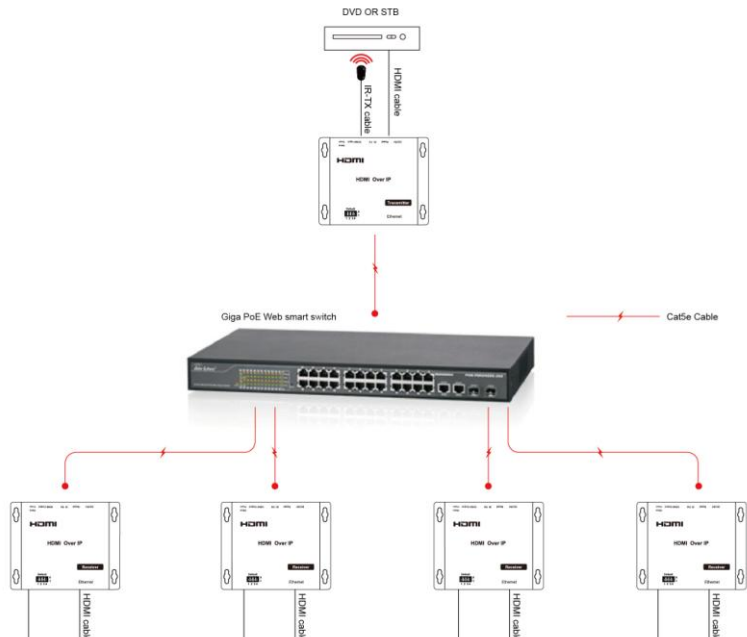
Many Sources to Many Displays Function

1. Connect one HDMI Cable between the HDMI output port of source device and the HDMI input port of Transmitter unit.
2. Connect one HDMI Cable between the HDMI input port of display and the HDMI output port of Receiver unit.
3. Connect one CAT5e or better cable between the RJ45 of each Transmitter unit and RJ45 port of Gigabit Ethernet switch hub.
4. Connect one CAT5e or better cable between each RJ45 port of Gigabit Ethernet switch hub to RJ45 port of Receiver unit. User can select source channel by setting up dip switch on each transmitter unit. And select display source for Receiver units via one remote control.
5. Use DIP switch select change sources .

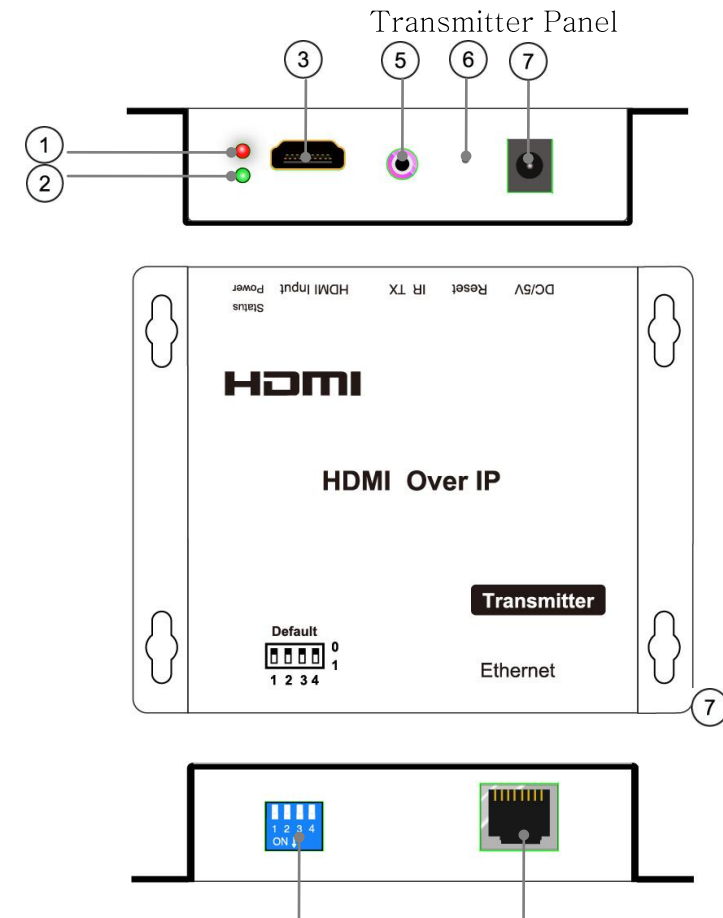


### How to Connect the HDMIPLR HDMI Over CAT6 Extender

1. Connect one HDMI Cable between the HDMI output port of source device and the HDMI input port of Transmitter unit
2. Connect one CAT5e or better cable between the RJ45 port of transmitter and input port of Gigabit Ethernet switch hub.
3. Connect one CAT5e or better cable between the output port of each Gigabit Ethernet switch hub and RJ45 port of Receiver unit.
5. Power on the output device first and then the source device.
6. Use dip switch has set up on the transmitter side (Group ID:0001) for each receiver. (Group ID:0001)



### PANEL DESCRIPTIONS



④ ⑧

①Indicator of power input      ②Status of signal connection      ③HDMI input

④DIP switch      ⑤IR-TX port      ⑥Reset button

⑦Power input port      ⑧Ethernet port

**4 bits DIP Switch:**

1~3for 0~7 (group) ID selection (such as 000,001,010 etc,)

4 for unicast or multicast select

Default Tx unicast IP address is 192.168.168.55 and can be configured from webpage.

Tx Group IP address: 239.168.168.1x, where x is the value of bits [2:0]

3

Operating Instructions

④ ⑧

①Indicator of power input      ②Status of signal connection      ③HDMI Output

④DIP switch      ⑤IR-RX port      ⑥Reset button

⑦Power input port      ⑧Ethernet port

**4 bits DIP Switch:**

1~3for 0~7 (group) ID selection (such as 000,001,010 etc,)

4 for unicast or multicast select

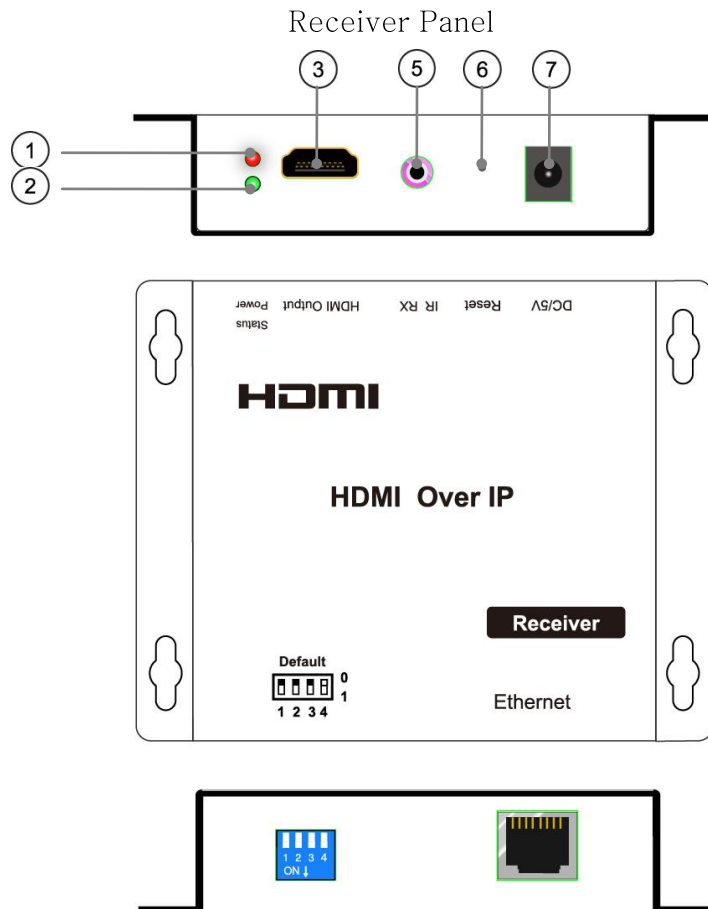
Default Rx unicast IP address is 192.168.168.56 and can be configured from webpage.

Rx Group IP address: 239.168.168.1x, where x is the value of bits [2:0]

4

Operating Instructions

User should configure the DIP switch within 10 seconds, firmware should reset the system 20 second after detecting the first change of DIP switch, and latch the new DIP switch value after reset.



**How to Connect HDMI Over IP One source to one display function**

1. Connect one HDMI Cable between the HDMI output port of source device and the HDMI input port of Transmitter unit
2. Connect one HDMI Cable between the HDMI input port of display and the HDMI output port of Receiver unit.
3. Connect one UTP Cat5e or better cables between the RJ45 port of

Transmitter unit and RJ45 port of Receiver unit.

4. Connect the included 5V DC power supplies to both Transmitter unit and Receiver unit.

5. Power on the output device first and the source second.

### 1) One to One

