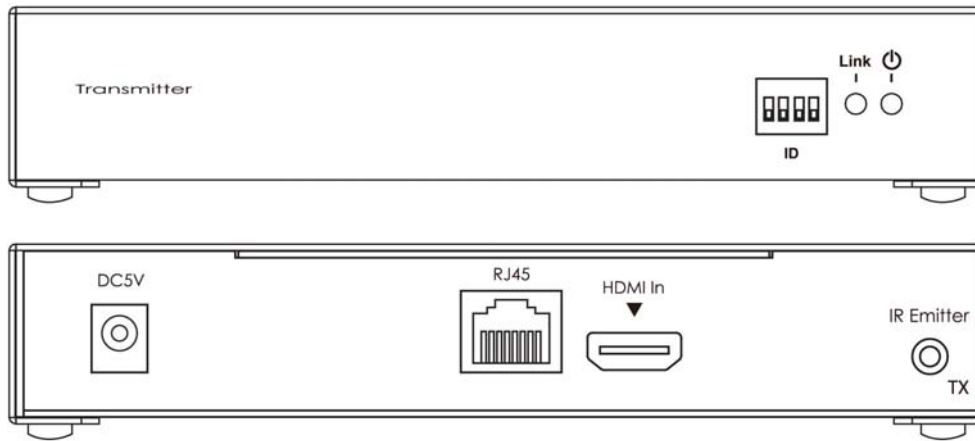


# Pro.2

## HDMI Over CAT6 with IR HDMIPLR

### User Manual



*Transmitter*

*Receiver*



### Notice

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Rev x A

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# INTRODUCTION

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The HDMIPLR HDMI Over CAT6 Extender with IR-Transmitter & Receiver

The HDMIPLR HDMI Over CAT6 Ethernet Extender with IR sends HDMI signals over just one 100Ohm CAT6 cable -- up to 330 feet away. The HDMIPLR HDMI Over CAT6 Extender supports HDMI 1.3 with Full HD 1080p resolution. DVI-D Computer video can also be transmitted with a DVI-to-HDMI cable

By using standard and widely available 100Ohm CAT6 cables, the HDMIPLR HDMI Over CAT6 Extender makes HDMI signal extensions easier than heavy and expensive copper cable and more robust than optical fiber.

How it connects

The HDMIPLR HDMI Over CAT6 Ethernet Extender system consists of a Transmitter and a Receiver. The HDMI source (set-top box, DVD player, or gaming console) connects to the Transmitter box. The Receiver box connects to the HDTV display in the same way -- up to 330 feet away. One 100Ohm CAT6 cables link the Transmitter and Receiver. Power is applied to the Transmitter and Receiver with 5V DC power supply. HDMI picture emerges on the HDTV display.

Note : The HDMIPLR HDMI Over CAT6 Extender is HDCP 2.0 compliant.

# FEATURES

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- Flexible extension of high-bandwidth HDMI 1.3
- Audio and video are transmitted digitally over the 100Ohm CAT6 cable for lower signal loss
- Single Link Range: 1080p/60 and 1920x1200.
- Compliant with HDMI 1.3, HDCP 2.0 and DVI1.1 standards
- Supports digital video formats in 480p , 720p and 1080p
- Supports PCM 2 Ch audio
- Supports IR Pass-through function to control HDMI source devices (set-top box, DVD player and Blue ray DVD Player) from Receiver by its IR extender input
- It can control source channel via IR remote control provided

## Package Includes

- (1) HDMIPLR-TX HDMI Over CAT6 Ethernet Transmitter
- (2) HDMIPLR-RX HDMI Over CAT6 Ethernet Receiver
- (3) IR Receiver Cable
- (4) IR Remote control
- (5) 2x 5V DC Power Supplies for Transmitter and Receiver
- (6) User Manual

## Optional Items:

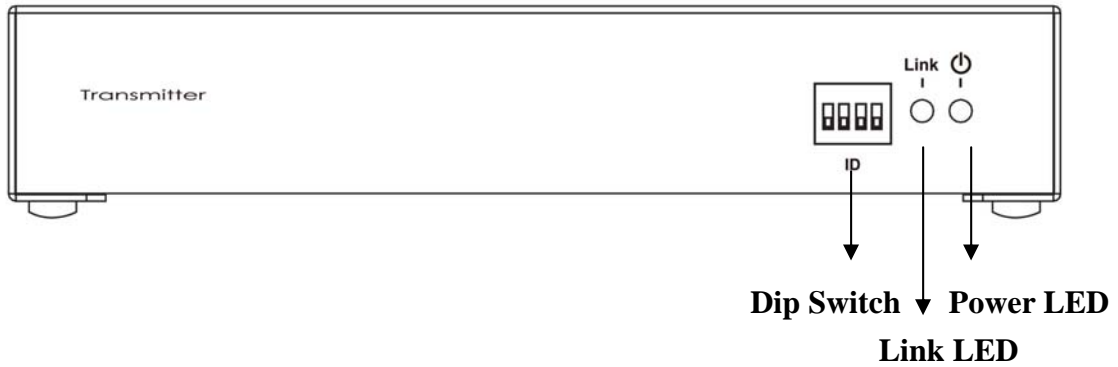
If you need the following items, please let us know and we will quote for you.

- (1) HDMI Cable (3 feet / 6 feet / 10 feet)
- (2) Mounted Ear & Screws

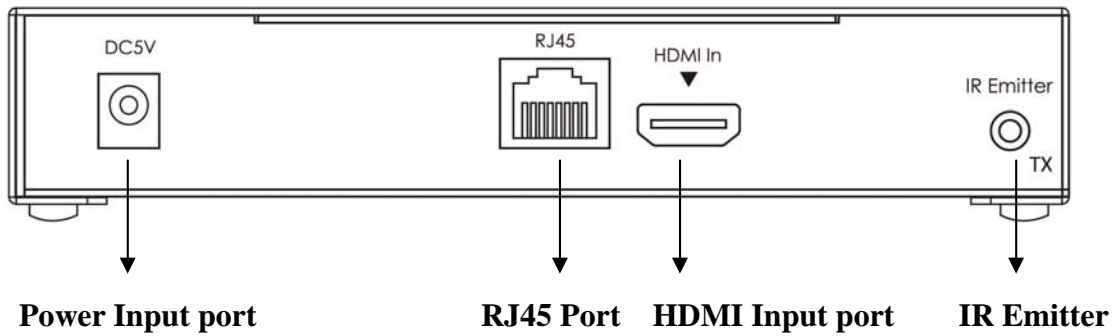
# TRANSMITTER UNIT PANEL LAYOUT

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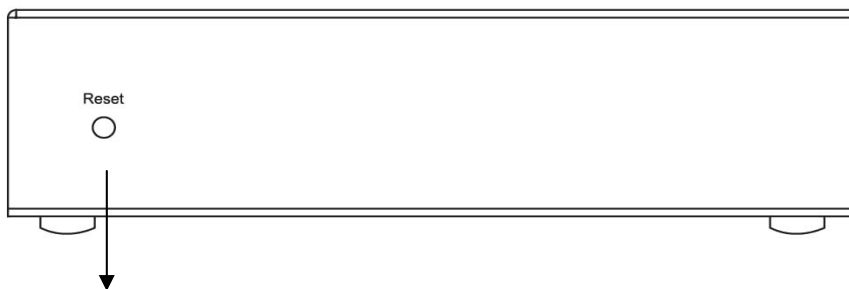
## Front Panel



## Back Panel



## Side Panel



# TRANSMITTER UNIT PANEL DESCRIPTIONS

---

## 1. Power LED

This LED indicator will activate once the included 5V DC power adapter has been properly connected between the Transmitter unit and an open wall power socket.

## 2. Link LED

This LED indicator will activate once Cat 6. cable has been properly connected between the Transmitter unit and Receiver unit.

## 3. Dip Switch

Dip switch is designed to define the source channel. Different combination of dip switch refers different source channel. User can change the combination of dip switch in order to define source. There are 16 combinations for dip switch, please refer to Appendix A.

## 4. Power Input Port

Connect the 5V DC power supply to this input port.

## 5. RJ45 Port

Connect a 100Ohm CAT6 cable between this output port and the RJ45 input port from Receiver unit

## 6. HDMI Input port

Connect one HDMI cable between this port and HDMI output port of the source device (DVD, Set-top box, blue-ray DVD)

## 7. IR Emitter

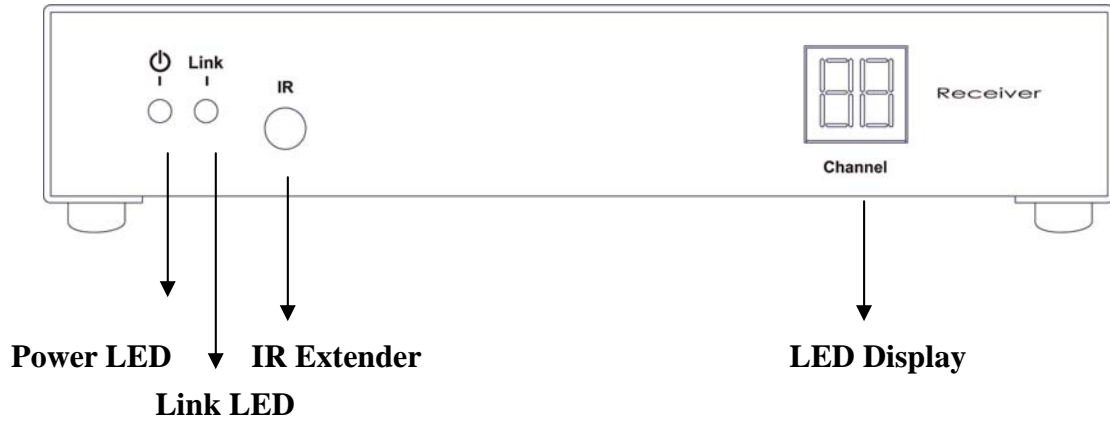
Connect an IR Emitter Cable to this IR port and stick IR emitter module on the IR receiver zone of HDMI source (set-top box, DVD player and Blue ray DVD Player).

## 8. Reset

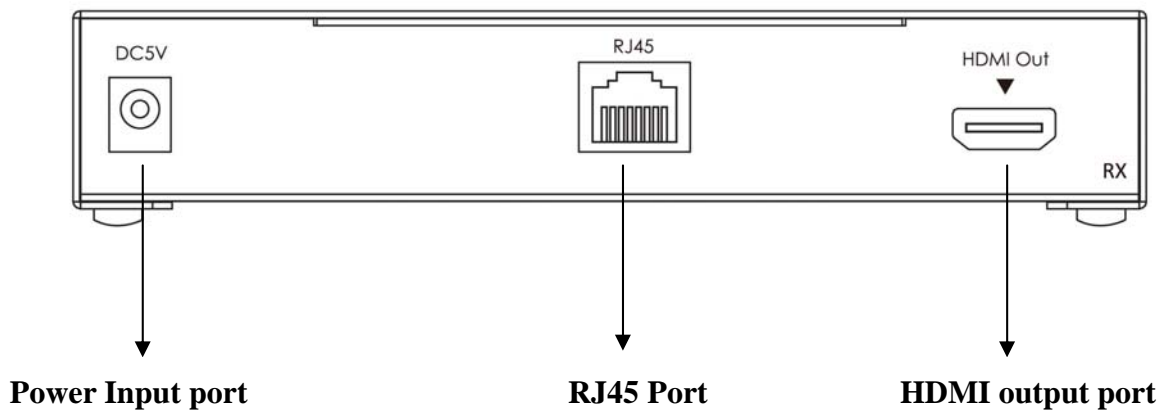
Please press this button once it has connecting problem.

# RECEIVER UNIT PANEL LAYOUT

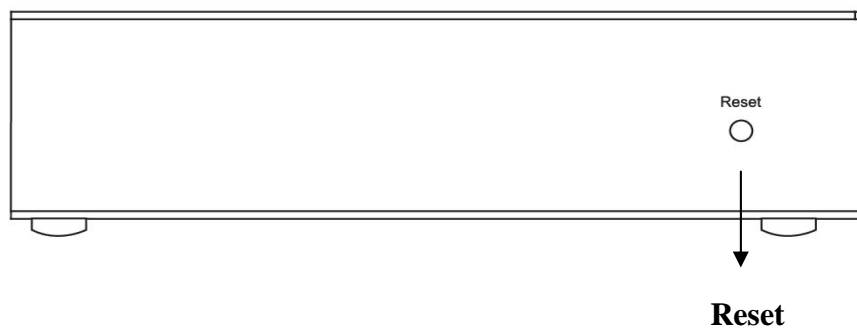
## Front Panel



## Back Panel



## Side Panel





# RECEIVER UNIT PANEL DESCRIPTIONS

---

## 1. Power LED

This LED indicator will activate once the included 5V DC power adapter has been properly connected between the Receiver unit and an open wall power socket.

## 2. Link LED

This LED indicator will activate once Cat 6. cable has been properly connected between the Transmitter unit and Receiver unit.

## 3. IR Extender

Please connect one IR Extender cable to this port. Once IR emitter cable has been connected between Transmitter and the source device, the source device can be controlled at the Receiver end by its IR remote controller.

## 4. LED Display

The LED Display is designed to identify which source channel the receiver should display. User can select source channel via remote control. Please refer to Appendix A for related link diagram.

## 5. Power Input Port

Connect 5V DC power supply to this input port.

## 6. RJ45 Port

Connect a 100Ohm CAT6 cable between this input port and the RJ45 output port from Transmitter unit.

## 7. HDMI output port

Connect the one HDMI cable between this output port and HDMI input port of the HDTV display.

## 8. Reset

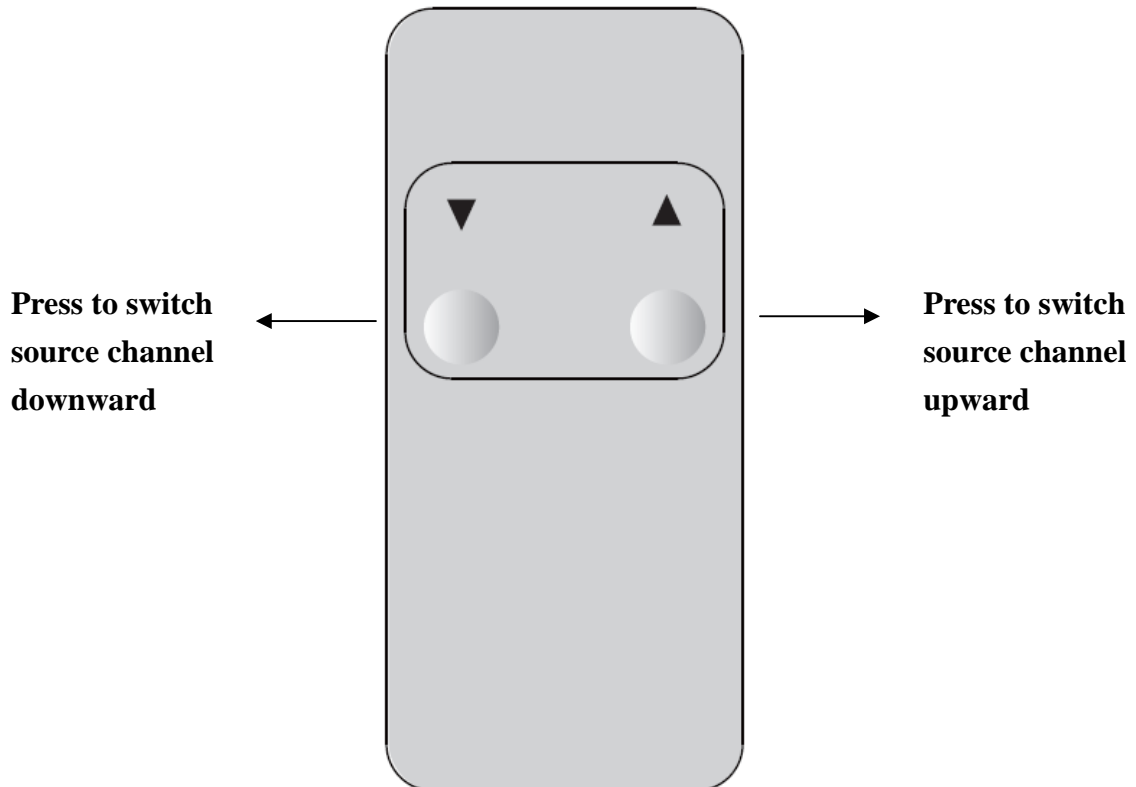
Please press this button once it has connecting problem.

# REMOTE CONTROL

## PANEL LAYOUT & DISCRPTIONS

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Front Panel



### 1. Downward Selection Button

This button allows user to switch source channel downwardly (from source 16 to source 1). By long pressing the button, source will be changed in a short time.

### 2. Upward Selection Button

This button allows user to switch source channel upwardly (from source 1 to source 16). By long pressing the button, source will be changed in a short time.

# CONNECTING AND OPERATING

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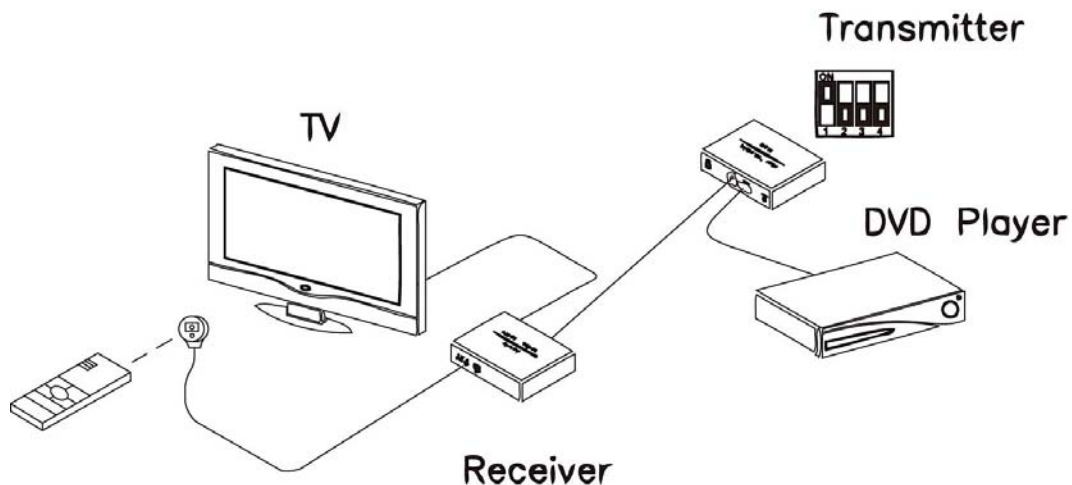
## How to Connect the HDMIPLR HDMI Over CAT6 Extender One Source to One Display Function

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 device and the HDMI output port of Receiver unit.
3. Connect one 100Ohm CAT6 cable between the RJ45 port of Transmitter unit and RJ45 port of Receiver unit.
4. Connect 5V DC power supplies to both Transmitter and Receiver unit.
5. Power on the output device first and then the source device.
6. Use remote control to select the related channel dip switch has set up on the transmitter side. Please refer to Appendix A for the link diagram.

Note:

1. IR Function is able to receive signal from remote control of your DVD player and remote control given along with our Receiver unit.

Please refer to following diagram:



# CONNECTING AND OPERATING

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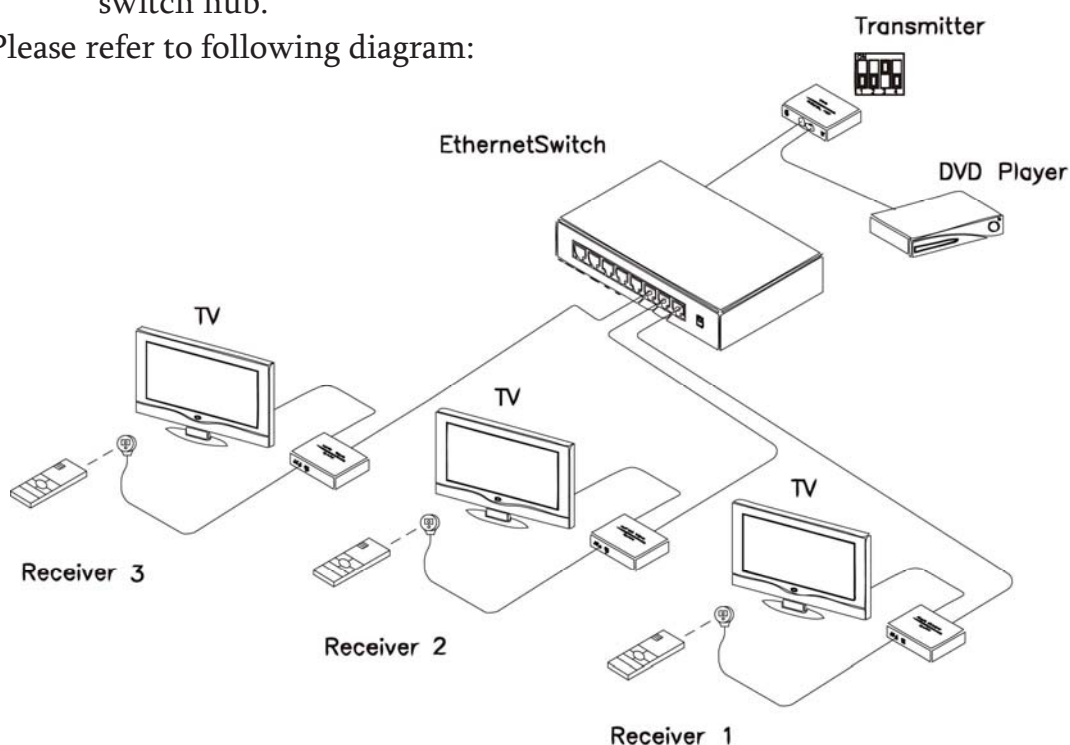
## How to Connect the HDMIPLR HDMI Over CAT6 Extender One Source to Many Displays Function

2. Connect one HDMI Cable between the HDMI output port of source device and the HDMI input port of Transmitter unit
3. Connect one 100Ohm CAT6 cable between the RJ45 port of transmitter and input port of Gigabit Ethernet switch hub.
4. Connect one 100Ohm CAT6 cable between the output port of each Gigabit Ethernet switch hub and RJ45 port of Receiver unit.
5. Connect 5V DC power supplies to both Transmitter and Receiver unit.
6. Power on the output device first and then the source device.
7. Use remote control to select the related channel dip switch has set up on the transmitter side for each receiver. Please refer to Appendix A for the link diagram.

Note:

1. IR Function is able to receive signal from remote control of your DVD player and remote control given along with our Receiver unit.
2. As our Transmitter unit can support over 200 IP address for different receiver unit, it can connect up to 200 pcs Receiver units.
3. Please note that the Ethernet switch hub should be Gigabit Ethernet switch hub.

Please refer to following diagram:



# CONNECTING AND OPERATING

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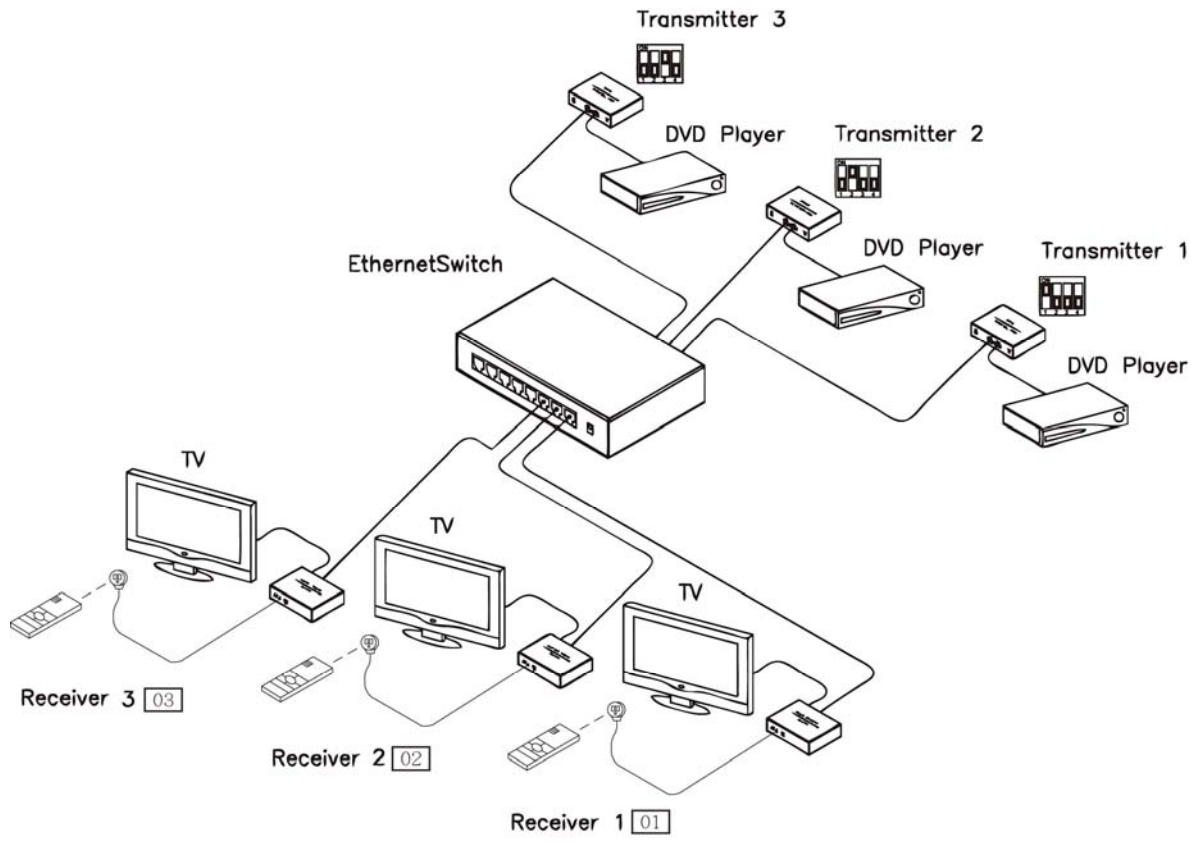
## How to Connect the HDMIPLR HDMI Over CAT6 Extender Many Sources to Many Displays Function

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 100Ohm CAT6 cable between the RJ45 of each Transmitter unit and RJ45 port of Gigabit Ethernet switch hub.
4. Connect one 100Ohm CAT6 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. Connect 5V DC power supplies to all Transmitter units and Receiver units.
6. Use remote control to select the channel of the desired transmitter to change sources.

### Note.

1. IR Function is able to receive signal from remote control of your DVD player and remote control given along with our Receiver unit.
2. As our Transmitter unit can support over 200 IP address for different receiver unit, it can connect up to 200 pcs Receiver units.
3. As each Transmitter has 4 ports of dip switch, it is able to create 16 combinations to define 16 source channels. Therefore, user can connect at most 16 Transmitter to the system. See Appendix A for selecting Transmitter channel.
4. Please note that the Ethernet switch hub should be Gigabit Ethernet switch hub and has IGMP function.

Please refer to following diagram on the next page:



# SPECIFICATIONS

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Video Amplifier Bandwidth ..... 225 MHz  
 Video Output ..... 1080p/60 and 1920x1200 max. res  
 Input DDC Signal ..... 5 Volts p-p (TTL); Input Video Signal: 1.2 Volts p-p  
 HDMI Connector ..... Type A, 19 Pin Female  
 Link Connector ..... RJ45 Shielded  
 Power Supply ..... 5V DC / Power Consumption: 5 Watts max.  
 Operating Temperature ..... 0°C - 40°C

| <b>PERFORMANCE</b>     |   |
|------------------------|---|
| HDTV Resolutions       | 480p, 720p, 1080i, 1080p                                    |
| Standard TV Resolution | 480i  |
| Maximum Cable Range    | HDMI Input: 15 feet Max, Outputs: 330 feet Max (Cat6 Cable) |
| Video Bandwidth        | 6.95Gbps  |
| Input Video Signal     | 1.2 Volts P-P   |
| Input DDC Signal       | 5.0 Volts P-P   |
| <b>I/O CONNECTORS</b>  |   |
| <b>Transmitter</b>     |   |
| Inputs                 | 1 HDMI-A 19PIN Socket                                       |
| Outputs                | 1 RJ45 Jack   |
|                        | 1 3.5mm Jack-IR Emitter                                     |
| <b>Receiver</b>        |   |
| Inputs                 | 1 RJ45 Jack   |
|                        | 1 IR Receiver Module  |
| Outputs                | 1 HDMI-A 19PIN Socket                                       |

|                               |                                |
|-------------------------------|--------------------------------|
| <b>MECHANICAL</b>             |                                |
| <b>Transmitter</b>            |                                |
| Dimensions (H-W-D)            | 162.3x114.85x30mm              |
| Weight                        | 0.5kg                          |
| <b>Receiver</b>               |                                |
| Dimensions (H-W-D)            | 162.3x114.85x30mm              |
| Weight                        | 0.5kg                          |
| <b>WARRANTY</b>               |                                |
| Limited Warranty              | 1 Year Parts and Labor         |
| <b>ENVIRONMENTAL</b>          |                                |
| Operating Temperature         | +0 to +40° C (+32° to 104° F)  |
| Operating Humidity            | 10% to 85% (Non-condensing)    |
| Storage Temperature           | -20° to +60° (+20° to +140° F) |
| Storage Humidity              | 10% to 85% (Non-condensing)    |
| <b>REMOTE CONTROL</b>         |                                |
| Infrared                      | IR Remote (Front)              |
| <b>POWER REQUIREMENTS</b>     |                                |
| External Power Supply         | 5VDC@2.5A                      |
| Power Consumption             | 10 Watts (Max.)                |
| <b>SAFETY</b>                 |                                |
| Certificate                   | FCC, CE, RoHS                  |
| Power Adapter                 | UL, CE, CSA, CEC, RoHS         |
| <b>ACCESSORIES</b>            |                                |
| AC Power Adapter X 1          | US, UK or Euro Type            |
| Sender Instruction Manual X 1 |                                |



# WARRANTY

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LIMITED WARRANTY – With the exceptions noted in the next paragraph, PRO2 warrants the original purchaser that the equipment it manufactures or sells will be free from defects in materials and workmanship for a period of one year from the date of purchase. Should this product, in PRO2's opinion, prove defective within this warranty period, PRO2, at its option, will repair or replace this product without charge. Any defective parts replaced become the property of PRO2. This warranty does not apply to those products which have been damaged due to accident, unauthorized alterations, improper repair, modifications, inadequate maintenance and care, or use in any manner for which the product was not originally intended.

Items integrated into PRO2 products that are made by other manufacturers, notably computer hard drives and liquid crystal display panels, are limited to the term of the warranty offered by the respective manufacturers. Such specific warranties are available upon request to PRO2.

PRO2 makes no other representation of warranty as to fitness for the purpose or merchantability or otherwise in respect of any of the products sold. The liability of PRO2 with respect to any defective products will be limited to the repair or replacement of such products. In no event shall PRO2 be responsible or liable for any damage arising from the use of such defective products whether such damages be direct, indirect, consequential or otherwise, and whether such damages are incurred by the reseller, end-user or any third party.

# COMPLIANCE



































































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The HDMIPLR HDMI Over CAT6 Ethernet Extender have been tested for compliance with appropriate FCC and CE rules and regulations and are also RoHS compliant.

The Power has been tested for compliance with UL, CE and CSA rules and regulations and is also RoHS compliant.

## Appendix A Setting Transmitter Channel

There are 16 combinations for Dip Switch, please refer to the following table, which defines 16 source channels for the system.

| RX<br>LED<br>No. | TX / DIP SW  |   |   |   |
|------------------|--|---|---|---|
|                  |  ON |  OFF |   |   |
|                  | 1  | 2   | 3   | 4   |
| <b>1.</b>        |     |      |    |    |
| <b>2.</b>        |     |      |    |    |
| <b>3.</b>        |     |      |    |    |
| <b>4.</b>        |     |      |    |    |
| <b>5.</b>        |    |     |   |   |
| <b>6.</b>        |   |    |  |  |
| <b>7.</b>        |   |    |  |  |
| <b>8.</b>        |   |    |  |  |
| <b>9.</b>        |   |    |  |  |
| <b>10.</b>       |   |    |  |  |
| <b>11.</b>       |   |    |  |  |
| <b>12.</b>       |   |    |  |  |
| <b>13.</b>       |   |    |  |  |
| <b>14.</b>       |   |    |  |  |
| <b>15.</b>       |   |    |  |  |
| <b>16.</b>       |   |    |  |  |