

**Video Wall 4K/60 HDMI & USB over IP  
Transmitter/Receiver with PoE**

**IHD-420 Series**  
Quick Installation Guide

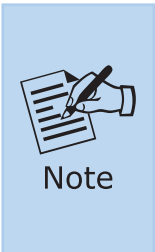
# Table of Contents

1. Package Contents .....	3
2. Product Outlook & Functions.....	4
3. Installation.....	6
4. Connection Pattern .....	7
4.1 Point to Point: .....	7
4.2 Multicasting:.....	7
5. Further Configuration .....	8

# 1. Package Contents

The package should contain the following items plus IHD-410 series. If any item is missing or damaged, please contact the seller immediately.

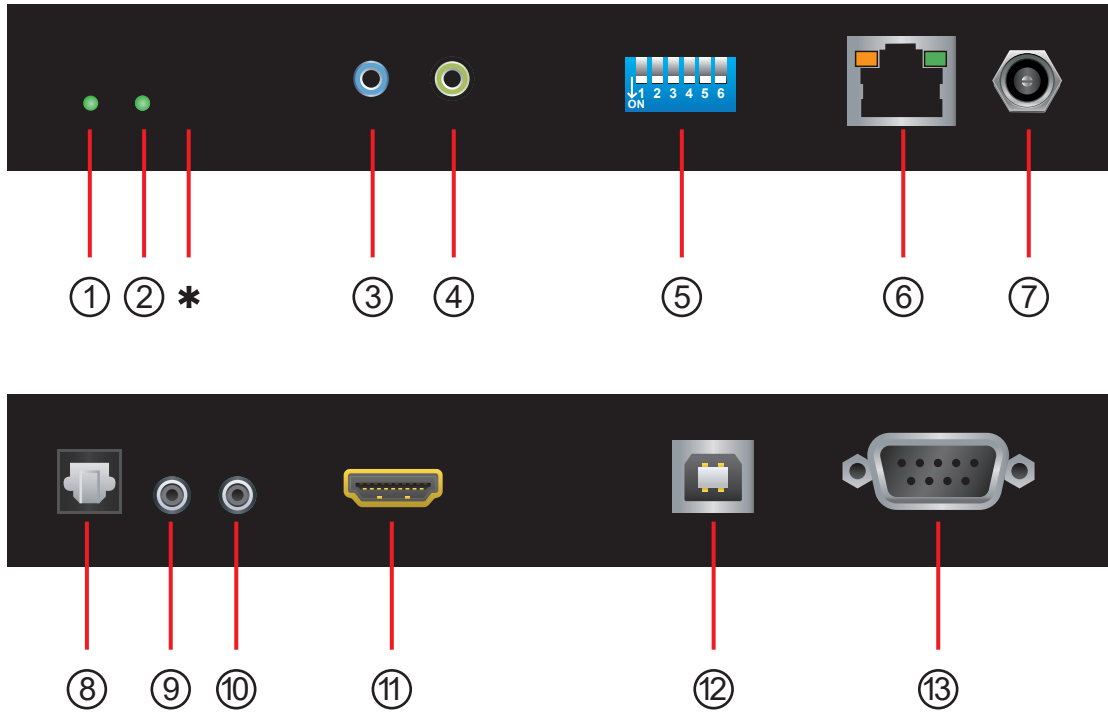
<p>IHD-420PT/PR x1</p>	<p>Quick Installation Guide Sheet x 1</p>
	
<p>IR Blaster Cable x 1 (Comes with a Transmitter)</p>	<p>IR Receiver Cable x 1 (Comes with a Receiver)</p>
	



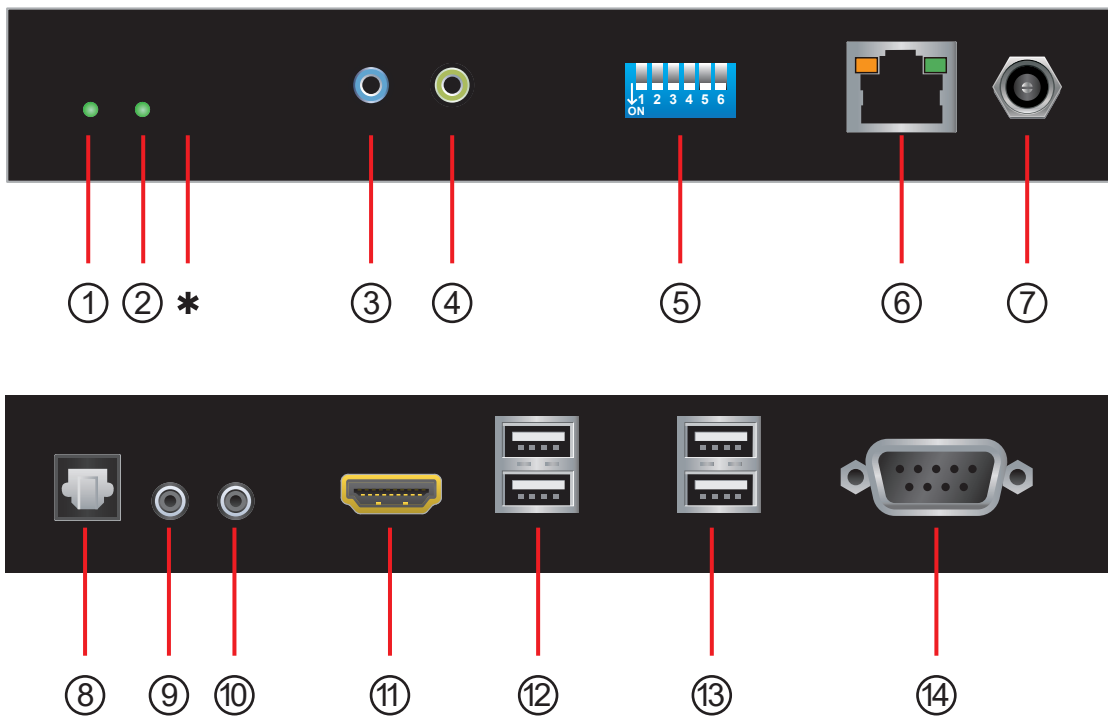
Since a power adapter is not included in the package, PoE is recommended for power supply. This provides a more convenient and efficient way to power the device without the need for an additional power adapter

## 2. Product Outlook & Functions

### Transmitter (IHD-420PT)



### Receiver (IHD-420PR)



Position	Description	Function
1	Power LED Indicator	[Blink] Indicating the unit is connected to a power supply. [Stable Blue] Indicating the device has completed booting and is operating normally.
2	Link LED Indicator	[Blink] Indicating a Cat-5/5e/6 cable is connected to the unit. [Stable Green] Indicating the transmitting unit is connected to an HDMI source and successfully linked to the receiving unit. PS: * LED is for future feature.
3	IR Blaster	Infrared 3.5mm socket is for connecting the IR blaster extension cable.
4	IR Receiver	Infrared 3.5mm socket is for connecting the IR receiver extension cable.
5	Group	6-bit DIP switch for a group configuration, allowing selection of 64 different stream channels.
6	Ethernet (PoE)	Gigabit Ethernet port with powered device (PD) function
7	DC 5V	Connect to 5V DC power supply
8	S/PDIF Output	Reserved
9	Analog Audio Line In	Connect to an audio source such as a microphone (for unicast only).
10	Analog Audio Line Out	Connect to a headphone.
11	HDMI Input (IHD-420PT)	Connect to an HDMI source using an HDMI male-to-male cable.
	HDMI Output (IHD-420PR)	Connect to an HDMI display using an HDMI male-to-male cable.
12	PC USB (IHD-420PT)	Connect to a PC USB 2.0 port.
	USB (IHD-420PR)	Connect to a keyboard or mouse.
13	USB (USB 2.0 port)	Connect to a USB flash driver.
14	RS-232	Connect to a PC serial port using a DB-9 male-to-male cable. (Feature disabled by default. Please consult the user manual for instructions on enabling this setting.)

### 3. Installation

1. Connect a video source to the Transmitter/Sender (**IHD-420PT**) Unit's **HDMI Input** port.
2. Connect a display to the Receiver (**IHD-420PR**) Unit's **HDMI Output** port.
3. Set **the same ID number** on the DIP switch for all units within the same group.
4. Connect the self-prepared USB cable from Transmitter to PC, and connect additional USB devices such as a USB mouse, USB keyboard or USB flash drive to the Receiver.
5. Use Cat5e/6 cables (Compliant with EIA/TIA 568B industry standards) to connect the Transmitter and Receiver to the IEEE 802.3at PoE+ switch.
6. Supply sufficient power to all connected devices.
7. Connect the IR blaster cable to the Transmitter and the IR Receiver cable to the Receiver for remote control functionality.

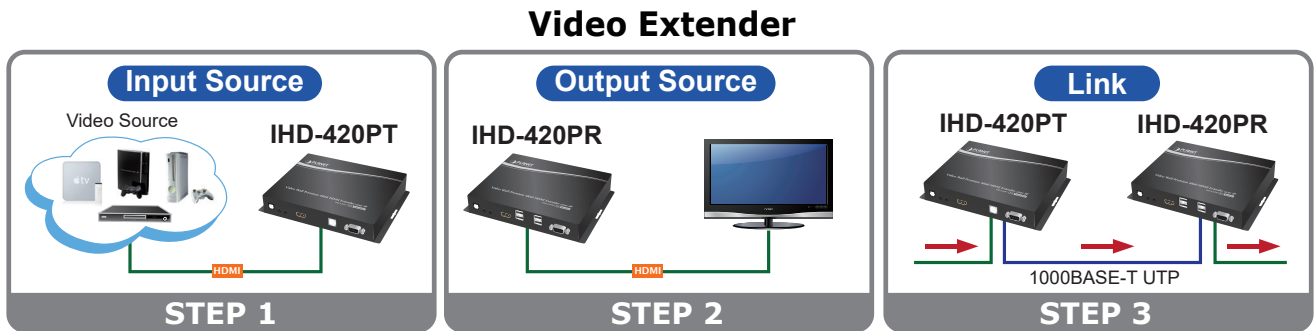


Note

- It is recommended to use a Gigabit IEEE 802.3at PoE+ Ethernet switch with IGMP Snooping and Jumbo Frame support to ensure optimal transmission quality.
- If users encounter no screen display when connecting to a computer, check whether the following are implemented:
  1. Ensure all device cables are correctly and securely connected.
  2. Set your display device's (TV, monitor, etc.) input source to HDMI.
  3. Check the PC BIOS configuration for the video output settings.
  4. Connect your computer DIRECTLY to the HDMI Display to verify if the video signal is being transmitted.

## 4. Connection Pattern

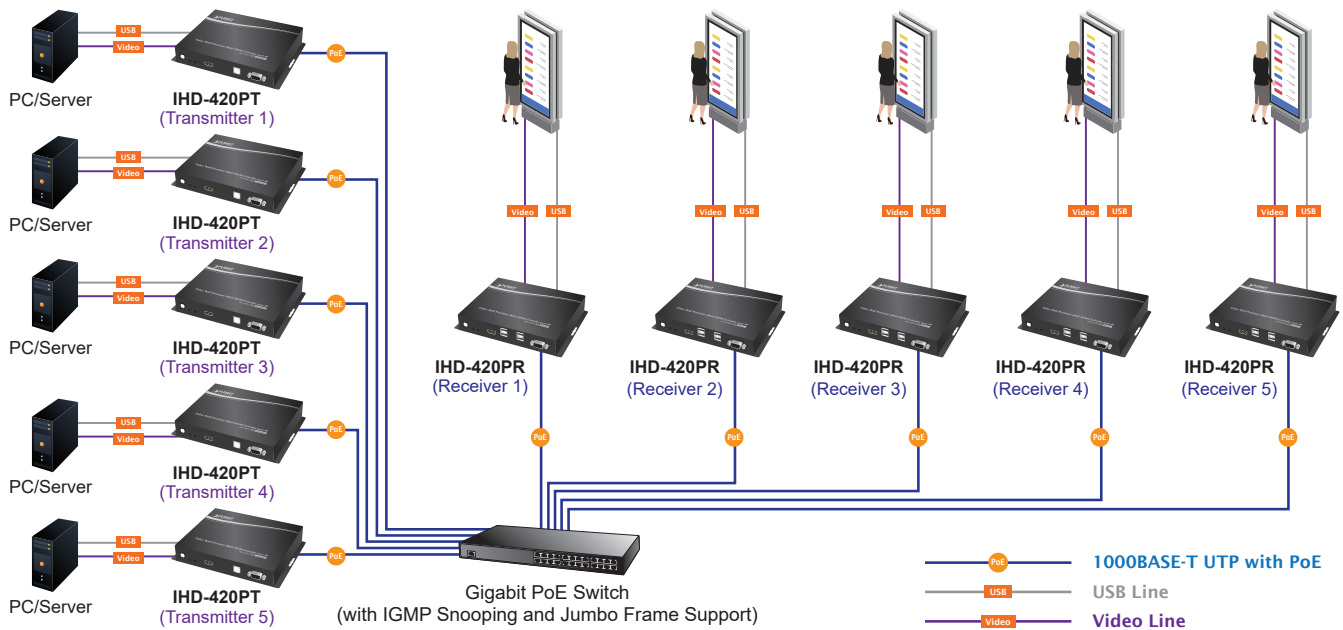
### 4.1 Point to Point:



\* Additional PoE switches and RXs (Receivers) can be used to distribute a single video signal to multiple displays.

### 4.2 Multicasting:

#### HDMI and USB Extending across IP to Multiple Interactive Displays



## 5. Further Configuration

For detailed configuration instructions, please refer to the user manual available on the website.

(<https://www.planet.com.tw/en/support/download.php?&method=keyword&keyword=IHD-420&view=3#list>).



If you have any other question, please contact the distributor from whom you purchased this product, or you can contact PLANET directly at the following email address: [support@planet.com.tw](mailto:support@planet.com.tw)