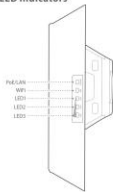


IP-COM
Quick Installation Guide
1030m Outdoor Point-to-Point CPE
Model: CP-E3

Get to Know the Devices

► LED Indicators



LED Indicator	Status	Description
PoE LAN	Active	The device is powered on successfully and is performing bridging.
	Blinking	The port is in bridging mode.
WAN	Active	WAN is powered on successfully.
	Blinking	The device is in bridging mode.
LED1	Active	The device is in AP mode.
	Blinking	The device is in client mode.
LED2, LED3	Active	The device is in bridge mode.
	Blinking	The device is in bridge mode.

► Ports & Button



ID	Port/Function	Description
1	PoE LAN	Port for PoE LAN connection.
2	WAN	Port for WAN connection.
3	LAN	Port for LAN connection.
4	LAN	Port for LAN connection.
5	LAN	Port for LAN connection.
6	LAN	Port for LAN connection.
7	LAN	Port for LAN connection.
8	LAN	Port for LAN connection.

Application Scenario 1: CCTV Surveillance

1. Set up the Devices

Method 1: Automatic Bridging (Recommended)

- Place the two devices next to each other, as shown in the following figure.
- Press and push the button on the rear panel of the device to open the housing, and use the included power adapters to power the two devices. Wait until the WAN LED indicators of the device turn on.
- Wait for the two devices to negotiate and connect to each other automatically. The LED statuses are as follows if the devices are connected successfully:
 - AP Mode** (LED1, LED2 and LED3 are solid on).
 - Client Mode** (LED1, LED2 and LED3 blink).

Method 2: Set up the Devices Using Web UI

- Place the two devices close to each other.
 - Press and push the button on the rear panel of the device to open the housing.
 - Use an Ethernet cable to connect the PoE LAN port of the device to the PoE LAN port of the PoE injector.
 - Use the included power adapters to connect the PoE injectors to a power socket. The PoE LAN LED of the device lights up.
 - Use an Ethernet cable to connect your computer to the LAN port of the PoE injector.
- Connect the computer to CPE 1.
 - Start a web browser on your computer, and visit **192.168.2.1**. Enter your user name and password (default: **admin**), and click **Login**.
 - Set an SSID, which is IP-COM_123456 in this example, security mode (WPA2-PSK is recommended), and click **Next**.
 - Click **Save**, and wait until the device reboots automatically to activate the settings.
- Set CPE 1 to AP Mode.
 - Click **Save**, and wait until the device reboots to activate the settings.
- Set CPE 2 to Client Mode.
 - Perform the procedure in Step 2 to connect the computer to CPE 2.
 - Start a web browser on your computer, and visit **192.168.2.1**. Enter the login user name and password (both are **admin** by default), and click **Login**.
 - Select the SSID you set on CPE 1, which is IP-COM_123456 in this example, and click **Next**.
 - Enter the WiFi password you set on CPE 1 in the **Key** text box, and click **Next**.
 - Set the IP address to an unused IP address belonging to the same network segment as that of CPE 1. For example, if the IP address of CPE 1 is 192.168.2.x, you can set the device's IP address to 192.168.2.y (y ranges from 2 to 254). Then click **Next**.
 - Click **Save**, and wait until the device reboots to activate the settings.

2. Install the Devices

- The device (transmitter in AP mode) with LED1, LED2 and LED3 solid on should be connected to the switch connecting to a network video recorder (NVR).
- The device (receiver in Client mode) with LED1, LED2 and LED3 blinking should be connected to the switch connecting to a monitoring IP camera.

Detailed procedures are as follows:

- Place the transmitter in the open air at the point where the NVR is located. Place the receiver in the open air at the point where the IP camera is located.
- Open the housing of the two devices, and connect the PoE LAN ports of the devices to PoE injectors respectively. The PoE LAN LED indicator lights up.
- Adjust the two devices' direction or location until the LED1, LED2 and LED3 of the two devices light up.
- Use the pole-mounting straps to attach the two devices to the poles.

Application Scenario 2: Wireless ISP Hotspot Access

1. Set up the Device

- Connect the computer to the device.
 - Press and push the button on the rear panel of the device to open the housing.
 - Use an Ethernet cable to connect the PoE LAN port of the device to the PoE LAN port of the PoE injector.
 - Use the included power adapters to connect the PoE injectors to a power socket. The PoE LAN LED of the device lights up.
 - Use an Ethernet cable to connect your computer to the LAN port of the PoE injector.
- Set the device to WISP Mode.
 - Start a web browser on your computer, and visit **192.168.2.1**. Enter your user name and password (default: **admin**), and click **Login**.
 - Select **WISP**, and click **Next**.
 - Select the SSID of your ISP Internet Service Provider (ISP), which is IP-COM_123456 in this example, and click **Next**.
 - Enter the WiFi password of your ISP Internet Service Provider hotspot in the **Key** text box, and click **Next**.
- Select the Internet Connection Type of your ISP hotspot. We take WISP as an example. Enter the IP address, user name and password provided by your ISP and click **Next**.
- Customize the SSID and Key, and click **Next**.
- Set an IP address belonging to different network segment as that of your ISP hotspot. For example, if the IP address of your ISP hotspot is 192.168.2.x, you can set this device's IP address to 192.168.2.y (y ranges from 0 to 254 except 2). Then click **Next**.
- Click **Save**, and wait until the device reboots to activate the settings.

2. Install the Devices

- Place the device in an open air.
- Open the housing of the device, and connect the PoE LAN port of the device to the WAN port of your wireless router. The PoE LAN LED indicator lights up.
- Adjust the device's direction or location on the selected pole until the LED1, LED2 and LED3 of the device light up.
- Use the pole-mounting straps to attach the device to the pole.

FAQ

Q1: I cannot login to the web UI of the device by entering 192.168.2.1. What should I do?

- Try the following method, and try again.
- Ensure that the device has been connected to the power supply and the login computer properly.
- Ensure that the IP address of the login computer is 192.168.2.x (x ranges from 2 to 254).
- Reset the device to factory settings.

Q2: How to reset the device to factory settings?

- Notice:** Restoring the device will clear all settings, and you need to configure it again.
- Method One:** 1 minute after the device powered on, open the housing of the device, and hold down **Reset** button for 7 seconds. When all LEDs light up, the device is restored to factory settings.
- Method Two:** Log in to the web UI of the device, click **Tools > Maintenance**, and click **Reset** button.

Q3: How to perform peer-to-peer bridging?

Step 1 Log in to the web UI of these devices refer to Method 2. Set up the Devices Using Web UI for details.
Step 2 Set the device connected to NVR to AP mode, and set the other connected to IP camera as Client mode.

Q4: How to determine whether the bridging signal is optimum when the devices are used for CCTV Surveillance?

Log in to the web UI of one device, and check the status on the following page:

Windows Status	Client	SSID Address of Peer	Signal Strength
Working Mode	Client	IP-COM123456	80%
SSID	WPA	192.168.2.1	80%
Security Mode	WPA2	192.168.2.1	80%
Channel	WPA2	192.168.2.1	80%
Network Address of Peer	WPA	192.168.2.1	80%

Adjust the horizontal and vertical positions of the device to check the Signal Strength and Background Noise. Stronger signal strength and less background noise is better than 90 dBm to better bridging signal.

CE Mark Warning
This is a Class B product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures for mitigating the risk of, for example, using shielded cables.

FCC Mark Warning
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

RECYCLING
This product bears the selective recycling symbol for waste electrical and electronic equipment (WEEE). This means that this product must be handled pursuant to European Directive 2012/19/EU in order to be recycled or dismantled to minimize its impact on the environment. Use the checks to give the product to a competent recycling organization or to the retailer when he buys a new electrical or electronic equipment.

Operating Temperature: 0°C ~ 55°C
Operating Humidity: 10% ~ 90% RH, non-condensing

Technical Support
Service: 192.168.2.1
Email: ip-com@ip-com.com
Website: www.ip-com.com

Address Info
Head Office: Room 101, East A, Red Road, Tower E5, No.100, Zhongyuan
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