Quick Installation Guide

Outdoor Wireless Bridge
AC450 CPE Access Point
Version 1.00
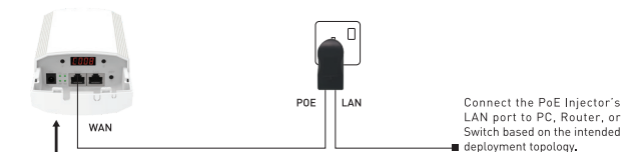
BEFORE GETTING STARTED

This document is designed to aid you to get started with the device. If you experience problems following these guides or need further information pertaining to the device, please visit our website at www.prolink2u.com. All specifications are subject to the manufacturer's configuration at the time of shipping and may change without prior notice, written or otherwise.

1. Package Contents

1 1 x Wireless Bridge CPE AP

2 1 x Quick Installation Guide

3 1 x Ethernet Cable

4 1 x Mounting Kit

5 1 x PoE Injector

2. Device Installation

POE LAN

WAN

Connect the PoE Injector's LAN port to PC, Router, or Switch based on the intended deployment topology.

Upon completion of physical connection, push the CPE cover back into place

Prepare a network cable to connect the PoE Injector's POE and the CPE AP's WAN. Cable type recommendation: minimum CAT 5 (or above) shielded network cable with a ground wire.

Note:
For typical deployment, maximum cable distance recommendation is 80 m subject to cable quality.

Place the Wireless Bridge CPE AP unit in such a manner that the Master and the Slave units' front panel are facing each other (max 60 degree).
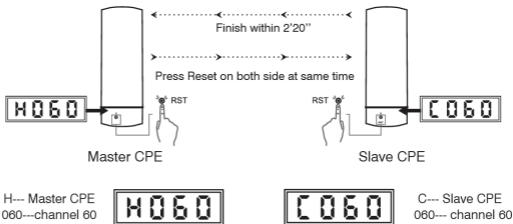
3. Physical Pairing Configuration

Step 1. Configure one unit as Master/Host unit by locating the **F** and **S** button on the unit

Step 2. Press **F** button until it shows as **H**, followed by pressing **S** button to set and move to the next setting (channel number). Please note that both Master/Host and Slave/Client units must be set to the same wireless channel number.

Press **F** and **S** buttons to toggle and set the digits which represents three digits for Wireless Channel.

Step 3. Configure one unit as Slave/Client unit by locating the **F** and **S** button on the unit

Step 4. Press **F** button until it shows as **C**, followed by pressing **S** button to set and move to the next setting (channel number)

Step 5. Press **F** and **S** buttons to toggle and set the digits which represents three digits for Wireless Channel. Please ensure that the Channel number set is the same as Master/Host unit.

Step 6. Press Reset button for 1 second on both units and the two units will start pairing process. Pairing process takes approximately up to 2 minutes 20 seconds to complete.

Finish within 2'20''

Press Reset on both side at same time

Master CPE   Slave CPE

H--- Master CPE
060---channel 60

C--- Slave CPE
060--- channel 60

Notes:
- **F** button is function and confirm button;
- **S** button is setting button.
- **F** (Press **F** button to choose the function to be set) – **S** (Press **S** button to set the value for operation mode, channel, etc.) – **F** (Press F button again to confirm the value, it will be successful after blinking for 5 seconds)
- Master CPE channel must be the same as that of the Slave

4. Accessing the Wireless Bridge CPE AP

There are two options to access the CPE AP, i.e. by Wireless Connection or by Wired Connection. Please follow through below steps according to the desired access method.

4.1 Accessing through Wireless Connection

Step 1. Set PC wireless Adapter's IP Address to 192.168.123.x (x: 2—250), same network segment as CPE, subnet mask 255.255.255.0:
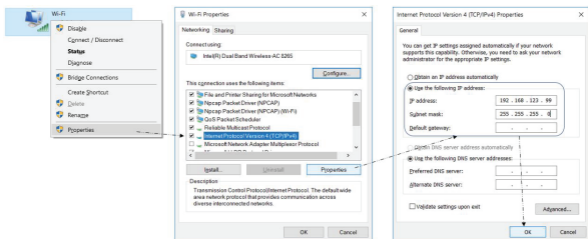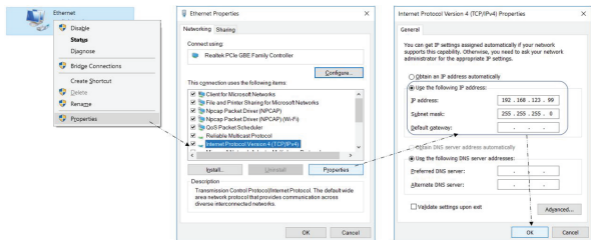

Step 2. Connect to CPE's wireless SSID: PROLiNK_EAP, and input password (Default password: prolink12345).

4. Accessing the Wireless Bridge CPE AP

4.2 Accessing through Wired Connection

Set PC wired LAN Adapter's IP Address to 192.168.123.x (x: 2—250), same network segment as CPE, subnet mask 255.255.255.0:

5. Accessing Web Configuration
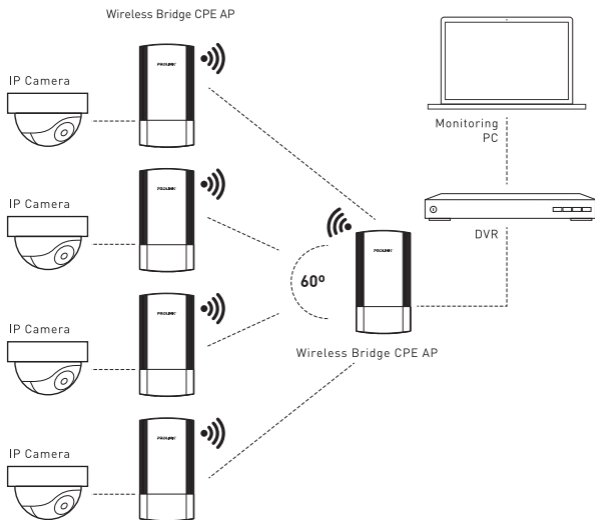
Step 1. Follow through all the above steps

Step 2. Launch an Internet Browser and key in http://192.168.123.254 onto the Address finished bar and enter. Note that IP Address may change accordingly upon pairing is or when the Master unit is connected to an active DHCP server.

Step 3. Input the login password when prompted (default password: " prolink12345 ")
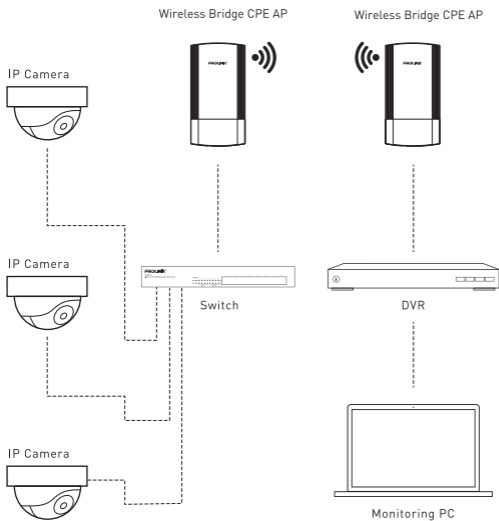
6. Typical Deployment Topology

Below illustration diagrams depict example of typical deployment possibility for the Wireless Bridge CPE AP.

Point to Multi-Point Connection

Point to Point Connection

Wireless Bridge CPE AP

Wireless Bridge CPE AP

IP Camera

IP Camera

IP Camera

Switch

DVR

Monitoring PC

7.Troubleshooting

Issue	Possible Reason	Possible Solution
Packet Latency	1. Wireless Interference 2. Wrong placement, over-distance, or there is some blockage in-between 3. CPE's angle is pointing towards wrong direction	1. Use Wi-Fi analyser tool to scan the environment. Set the AP to the best channel. 2. Try avoiding actual placement based on maximum distance as wireless environment changes overtime. 3. Try to avoid physical blockage as much as possible. (e.g. trees, building, Glass Billboard Advertisements, etc) 4. Adjust the CPE angle based on signal strength.
Wrong Password	1. Forgot password 2. Wrong password entered 3. Excessive cookies/cache	1. Hold reset button for 10 seconds and release to reset device, the default password is prolink12345 2. Re-input the password 3. Clear browser's cookies, browser's cache, type arp -d on command prompt to clear MAC table.
Cannot Login to Web GUI	1. PC's IP is not in the same network segment as CPE 2. There is an IP Address conflict in the network / IP is taken or assigned to other devices 3. LAN Connection or Ethernet cable has problems 4. Excessive cookies/cache	1. Ping 192.168.123.253 or 192.168.123.252, or the last known IP Address set or assigned to see connection status. Please ensure that the connected PC is in the same subnet. 2. Isolate the device from network to confirm there is no IP Address conflict 3. Check LAN Connection and Ethernet cable 4. Clear browser's cookies, browser's cache, type arp -d on command prompt to clear PC's ARP table.

7.Troubleshooting

Issue	Possible Reason	Possible Solution
System LED Not Lit	1. PoE power supply is not working 2. CPE's PoE port (WAN port) is faulty 3. Ethernet cable is loose 4. Power current/voltage lower or wrong	1. Check if POE Injector and switch work 2. Check if POE port of CPE is OK 3. Check if Ethernet cable is loose, if it is plugged into the POE port 4. Check if voltage is normal, if socket has problem and if input voltage of PoE Injector is normal
Low Trans-mission Rate	1. Packet Latency 2. Ethernet cable quality 3. Network virus attack 4. Too many access users	1. Adjust the distance, angle and channel to reduce latency. 2. Check if there is cable issue 3. Isolate the CPE's network and check if there is virus / broadcast storm 4. Limit the access users. 5. Scan for wireless interference and apply necessary step to avoid the interference 6. Try changing the Wireless bandwidth to 20MHz. Default bandwidth is set to 40MHz.

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