## **CAP-5015D**

# Outdoor Wireless AP/Bridge/Router/CPE

Quick Installation Guide

Version 1.0.3

WiBorne, Inc.

## 1. Before You Start



Package Contents	
• CAP-5015D	x 1
Quick Installation Guide	x 1
<ul> <li>CD-ROM (with UG and QIG)</li> </ul>	x 1
<ul> <li>Power Adapter DC24V or 48V 0.5A</li> </ul>	x 1
PoE injector	x 1
Mounting Kit	x 1

### **Required Equipments**

- Web Browser: Internet Explorer (6.0 or above), Firefox, or Safari.
- A Computer with a network adapter properly installed.
- 2 x RJ45 Ethernet cables.

### **Panel Function Description**





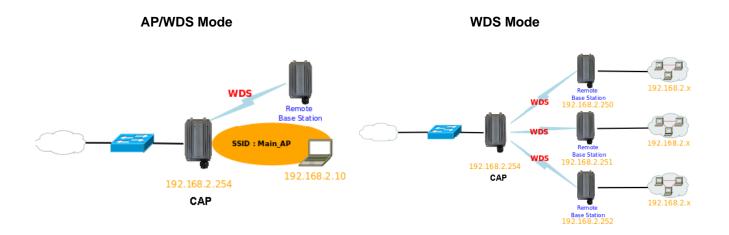
**Rear Panel** 



- 1. Reboot Button: Unscrew the screw and click Reset button to restart system or reset to default configurations.
  - Press and hold the Reset button for 2 seconds and release to restart system. The LED except Power indicator will be off prior of restart.
  - Press and hold the Reset button for more than 10 seconds to reset the system to default configurations.
- 2. Power: Green LED ON indicates power on, and OFF indicates power off.
- 3. WLAN: Green LED FLASH indicates Wireless Transmit.
- 4. LAN: Green LED ON indicates connection, OFF indicates no connection, FLASH indicates Packets transmit
- 5. PoE Connector: For connecting to PSE
- Optional N-type Connector(s): For connecting to N-Type Antenna

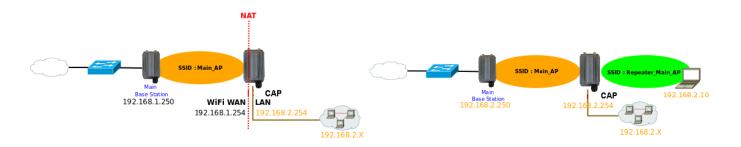
### **Application in Wireless Network**

CAP-5015D is a multiple mode system which can be configured either as a wireless gateway or an access point as desired. It also can be used as a WDS link for Ethernet network expansion. Following diagrams illustrate applications for *AP Mode*, *WDS Mode*, *CPE Mode*, *and Client Bridge* + *Universal Repeater Mode*.

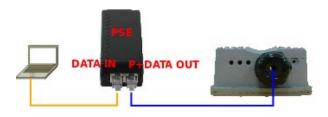


#### **CPE Mode**

Client Bridge + Universal Repeater Mode



## 2. Hardware Installation



#### Note:

- Using the 1<sup>st</sup> RJ45 Ethernet cable, connect one end of this cable onto the Power over Ethernet (PoE) connector of CAP-5015D
- Connect the opposite end of above cable to the P+DATA OUT port on the PoE Injector
- Using the 2<sup>nd</sup> RJ45 Ethernet cable, connect one end of this cable onto the **DATA IN** port of the PoE Injector
- Connect the opposite end of the 2<sup>nd</sup> RJ45 cable onto a LAN port on your network or computer
- Connect the power cord into the PoE Injector. Then connect the power cord to a power outlet.

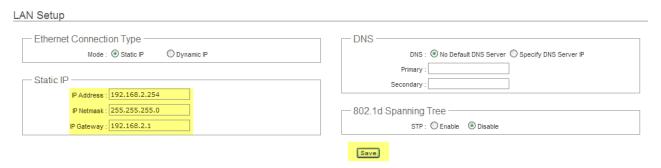
## 3. Configuring the Access Point

#### Note:

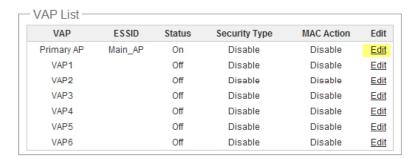
- It is recommended that you configure the Access Point from a wired computer. Before configuring the
  Access Point, a Static IP address must be assigned to your computer's network adapter in the subnet of
  192.168.2.x. Since the Access Point's default IP address is 192.168.2.254, make sure no other network
  devices are assigned an IP address of 192.168.2.254. (Refer to How to configure TCP/IP settings on
  your PC.)
- 2. Disable any anti-virus and firewall programs before configuring the access point.
- 3. Type in 192.168.2.254 from your web browser:



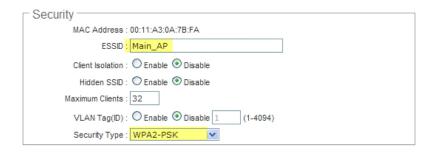
- 4. Login is *root*, password is *default*. If your previous mode is set with CPE mode then login and password are both *admin* for management account.
- Click Wireless -> Virtual AP Setup, Configure the LAN settings to match your network settings and then click Save button.



6. Select Edit for the desired Virtual AP(VAP):



- 7. Enter the desired ESSID.
- Select the desired Security Type. To protect your network from any unauthorized access it is recommended to enable wireless encryption. The example below shows WPA2-PSK option.



9. Select the Cipher Suite (Type) such as **AES**. Enter a Pre-shared Key and then click **Save** button. The key must be between **8** and **63 ASCII** or **64 HEX** characters. Make sure to save the encryption key.



10. Click Reboot:



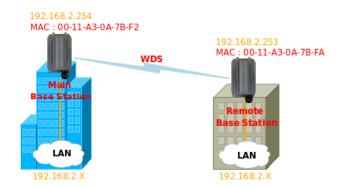
Your installation is complete.

## 4. Configuring for WDS Link

#### Note:

- The system provides WDS function on Router AP Mode, AP Mode, and WDS Mode.
- WDS Link requires at least 2 units of CAP-5015D. The Two wired networks (LAN) need to be on the same subnet.
- The WDS Link needs to be set at same Channel and with same Security Type.
- To be familiar with WDS mode, you can configure in lab environment prior of mounting the CAP-5015D on field.
- Once you set CAP-5015D to be on WDS Mode, wireless clients will not be able to connect to the CAP-5015D, unless such clients are on the same WDS mode.

The example below illustrates WDS Mode:



### **Setting Up the Main CAP-5015D (Main Base Station)**

Copy down the 12 digit MAC Address of the Remote CAP-5015D (Remote Base Station). The MAC
Address is on the Overview Page (Status -> Overview) and Wireless General Setup Page (Wireless Seneral Setup)



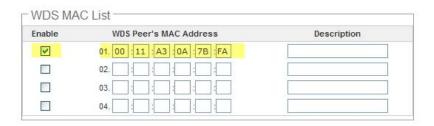
Follows steps shown on above section to configure the Access Point mode:



Click System -> Operating Mode. Select WDS Mode and then click Save & Reboot button.



Once system is back, click **Wireless -> WDS Setup**, Click **Enable** and enter the MAC Address of



Click Reboot:

Remote CAP-5015D. Then click Save button.

Reboot

### **Setting Up the Remote CAP-5015D (Remote Base Station)**

- Copy down the 12 digit MAC Address of the Main CAP-5015D (Main Base Station). The MAC Address is on the Overview Page (Status -> Overview), or Wireless General Setup Page(Wireless -> General Setup)
- Configure Remote CAP-5015D by following steps shown on previous section Configure the Access Point. Make sure IP Address of the Remote CAP-5015D to be different from the Main CAP-5015D.
- After Setting Up the Main and Remote CAP-5015D, please click Status -> WDS Status.
- Verify the Remote CAP-5015D's MAC Address and Signal Strength (RSSI), it should show IP address
  of Main CAP-5015D:



### 5. How to configure TCP/IP settings on your Windows

- Go into the **Control Panel**, double-click the **Network Connections** icon and then right-click the **Local Area Connection** icon and then click Properties.
- Click Internet Protocol (TCP/IP) and then click Properties. Then click on Use the follow IP address, and make sure you assign your network adapter an IP address in the subnet of 192.168.2.X, but is different than the IP address used for configured CAP-5015D.

