

Step 3. Plug the power cord into the DC port and the other end into the AC socket. Then, plug the RJ45 cable (as shown in picture 4 under Step 1) into the POE port of the PoE injector.

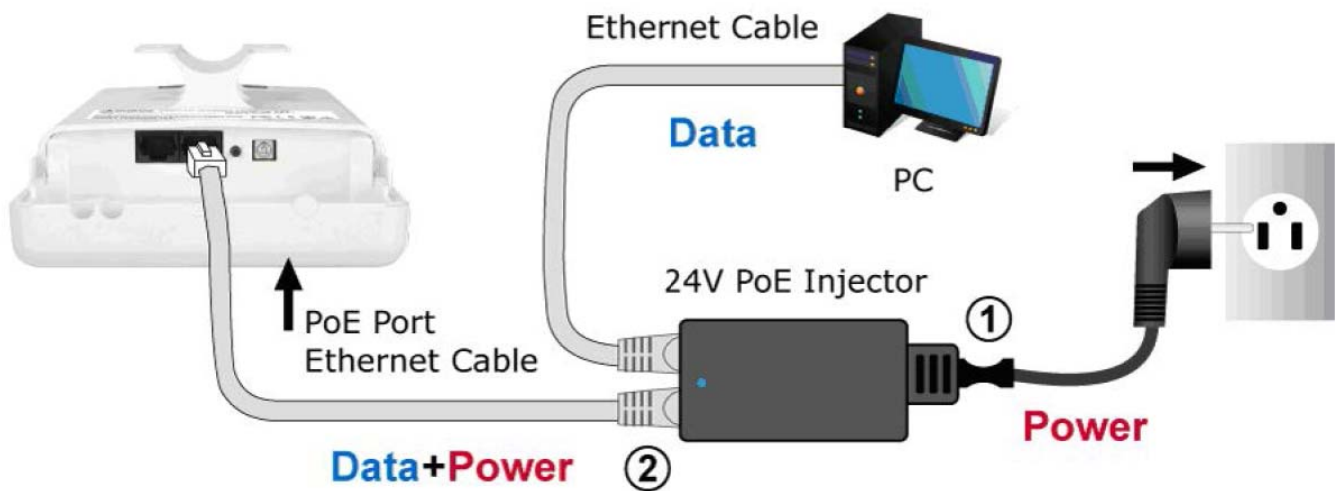


Figure 3-3 Connect the PoE injector

Step 4. Pole Mounting:

Place the strap through the slot on the back of the WNAP-6325 and then around the pole. Tighten the strap to secure the WNAP-6325.



Figure 3-4 Pole Mounting

Chapter 4. Quick Installation Guide

This chapter will show you how to configure the basic functions of your AP within minutes.



A computer with wired Ethernet connection to the Wireless AP is required for the first-time configuration.

4.1 Manual Network Setup - TCP/IP Configuration

The default IP address of the WNAP-6325 is **192.168.1.253**. And the default Subnet Mask is 255.255.255.0. These values can be changed as you desire. In this guide, we use all the default values for description.

Connect the WNAP-6325 with your PC via an Ethernet cable which is then plugged into a LAN port of the PoE injector with one end and into a LAN port of the PC with the other end. Then power on the WNAP-6325 via PoE injector or PoE switch.

In the following sections, we'll introduce how to install and configure the TCP/IP correctly in **Windows 7**. And the procedures in other operating systems are similar. First, make sure your Ethernet adapter is working, and refer to the Ethernet adapter's manual if needed.

4.1.1 Configuring the IP Address Manually

Summary:

- Set up the TCP/IP Protocol for your PC.
- Configure the network parameters. The IP address is 192.168.1.xxx ("xxx" is any number from 2 to 252), Subnet Mask is 255.255.255.0, and Gateway is 192.168.1.253 (The AP's default IP address)

- 1 Select **Use the following IP address** radio button.
- 2 If the AP's LAN IP address is 192.168.1.1, enter IP address 192.168.1.x (x is from 2 to 254), and **Subnet mask** 255.255.255.0.
- 3 Select **Use the following DNS server addresses** radio button. In the **Preferred DNS Server** field, you can enter the DNS server IP address which has been provided by your ISP

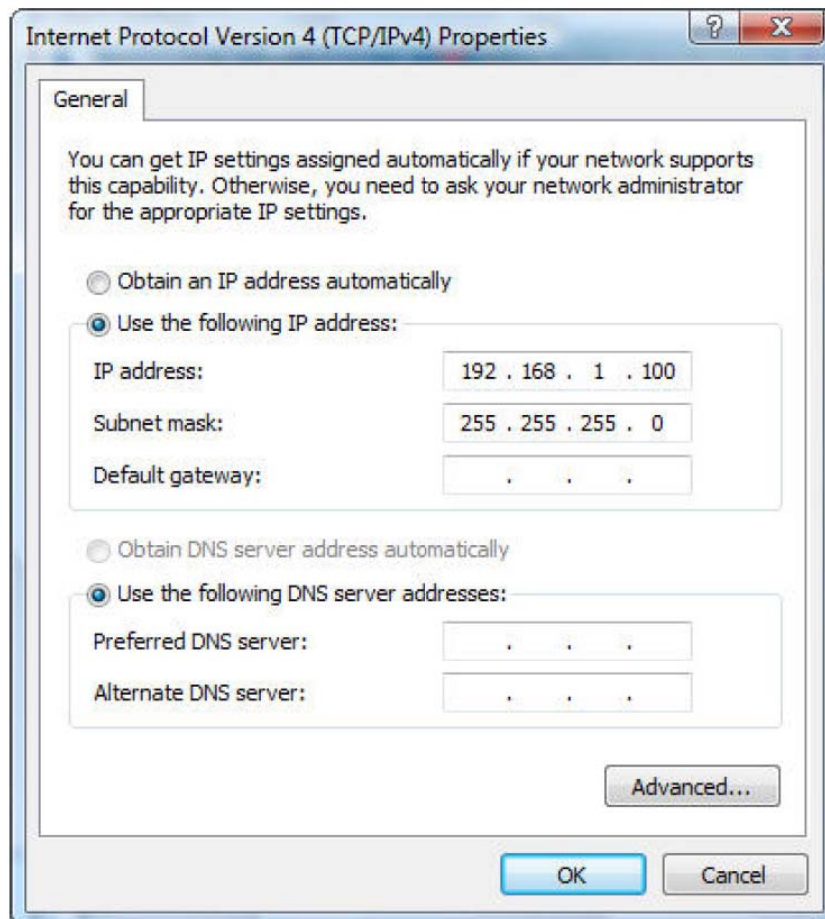


Figure 4-1 TCP/IP Setting

Now click **OK** to save your settings.

Now, you can run the ping command in the **command prompt** to verify the network connection between your PC and the AP. The following example is in **Windows 7** OS. Please follow the Steps below:

1. Click on **Start > Run**.
2. Type "**cmd**" in the Search box.

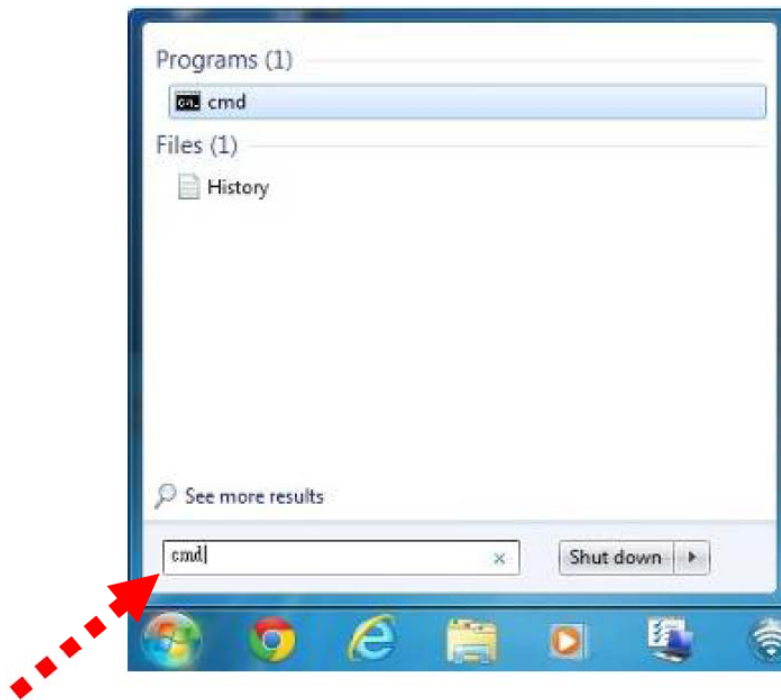


Figure 4-2 Windows Start Menu

3. Open a command prompt and type **ping 192.168.1.253**, and then press **Enter**.

If the result displayed is similar to [Figure 4-3](#), it means the connection between your PC and the AP has been established well.

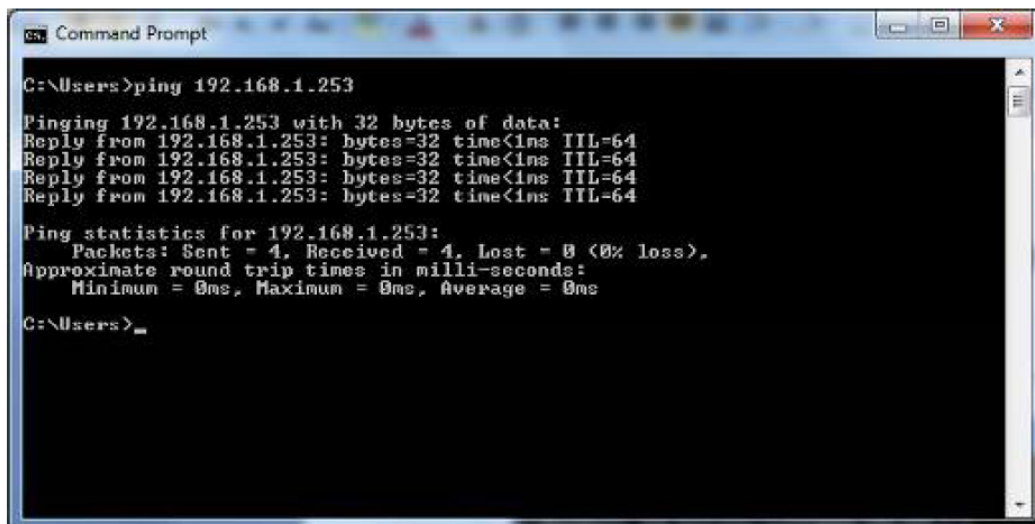


Figure 4-3 Successful result of Ping command

If the result displayed is similar to [Figure 4-4](#), it means the connection between your PC and the AP has failed.

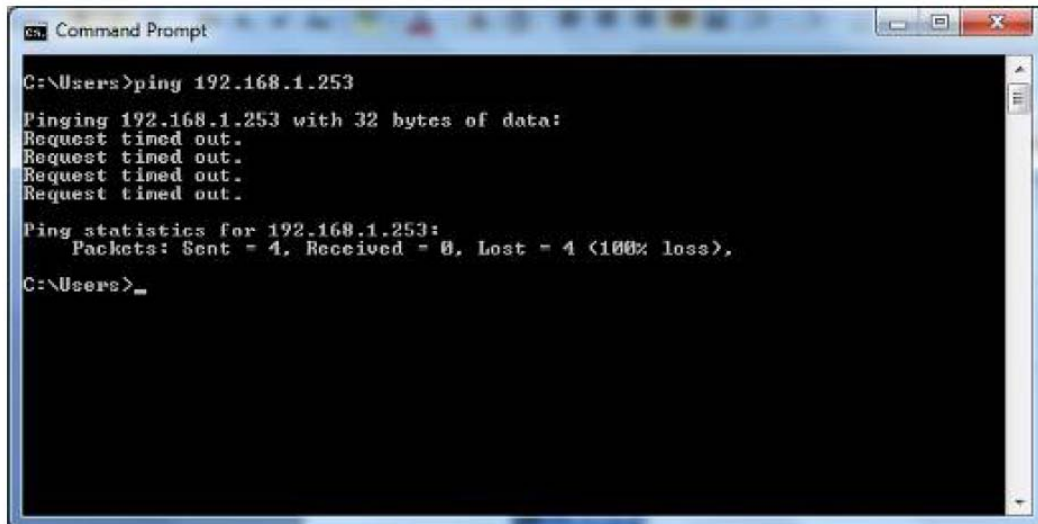


Figure 4-4 Failed result of Ping command

If the address is 0.0.0.0, check your adapter installation, security settings, and the settings on your AP. Some firewall software programs may block a DHCP request on newly installed adapters.

4.2 Starting Setup in the Web UI

It is easy to configure and manage the WNAP-6325 with the web browser.

Step 1. To access the configuration page, open a web browser and enter the default IP address <http://192.168.1.253> in the web address field of the browser.

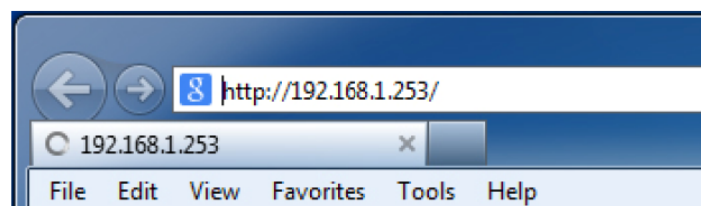


Figure 4-5 Login by default IP address

After a moment, a login window will appear. Enter **admin** for the User Name and Password, both in lower case letters. Then click the **OK** button or press the **Enter** key.



Figure 4-6 Login Window

Default IP Address: **192.168.1.253**

Default User Name: **admin**

Default Password: **admin**



Note

If the above screen does not pop up, it may mean that your web browser has been set to a proxy. Go to **Tools menu>Internet Options>Connections>LAN Settings** in the screen that appears, cancel the Using Proxy checkbox, and click OK to finish it.

After entering the username and password, the **Operation Mode** page screen appears as in **Figure 4-8**

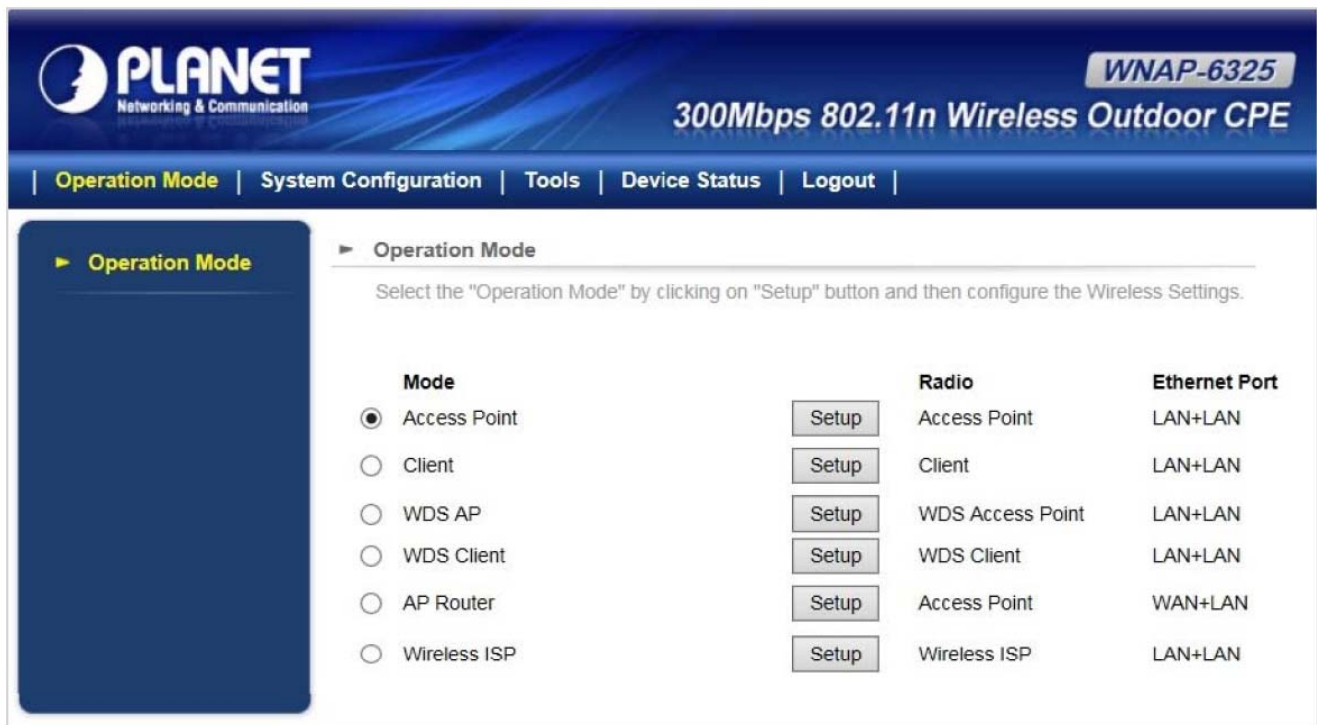


Figure 4-7 WNAP-6325 Web UI Screenshot

Step 2. You can choose an Operation Mode. Please refer to the instructions in the next chapter for configuring the other Operation Modes.

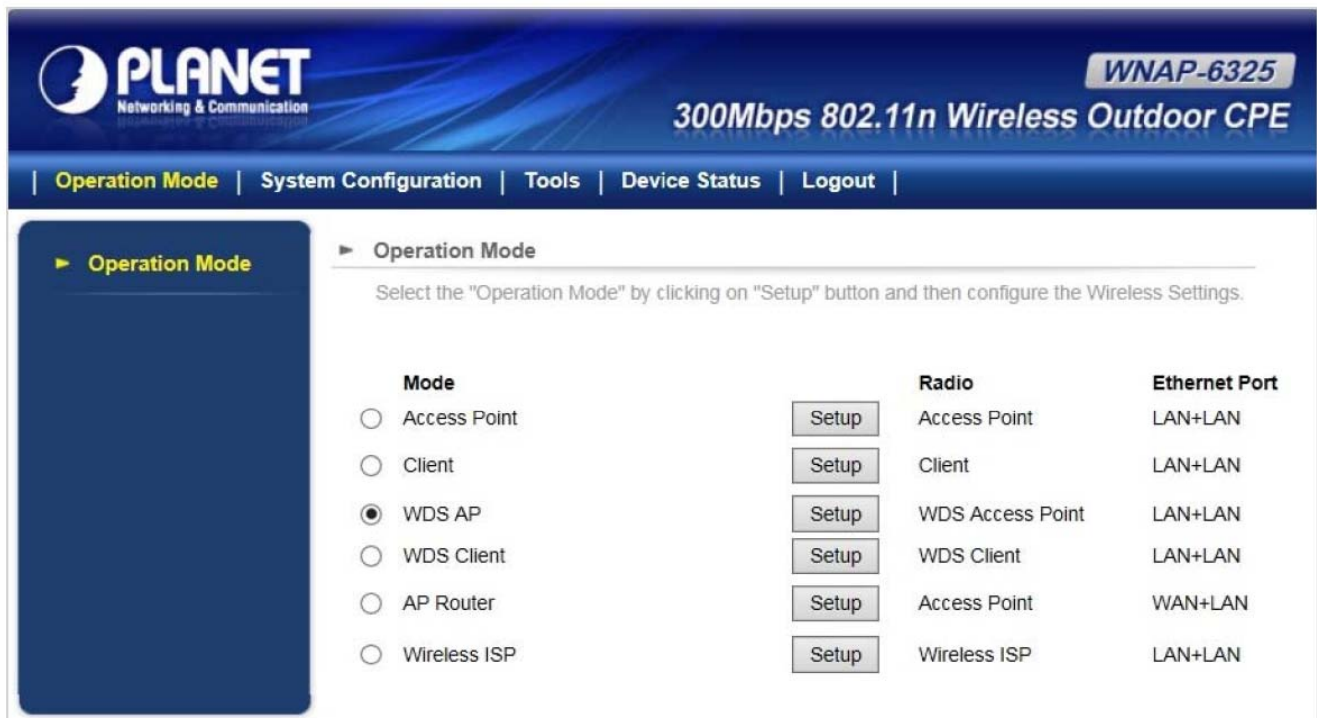
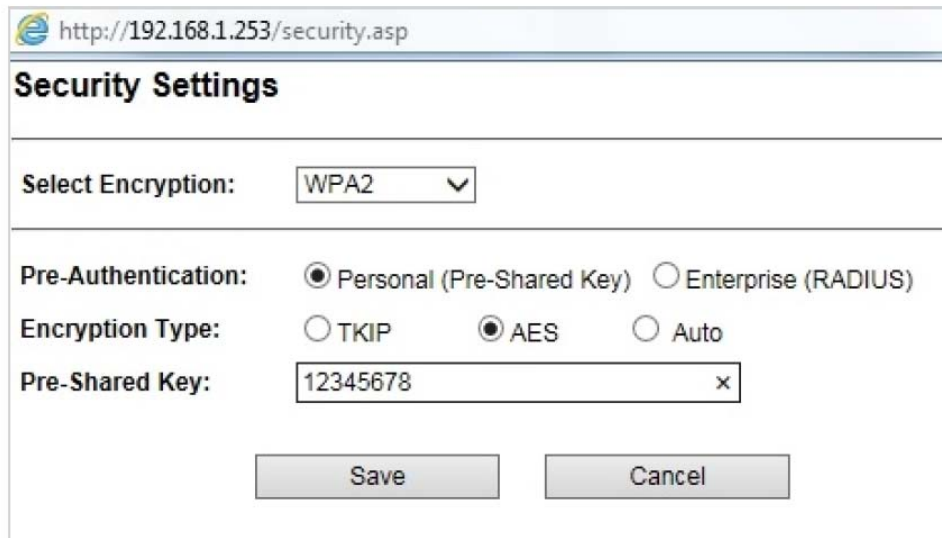


Figure 4-8 Choose Operation Mode

Step 3. Please enter the SSID and configure your Encryption Settings, Pre-Shared Key, etc. Then click the **Save** button to make the configuration take effect immediately.



The screenshot shows a web browser window with the address bar displaying "http://192.168.1.253/security.asp". The page title is "Security Settings". The form contains the following elements:

- Select Encryption:** A dropdown menu currently showing "WPA2".
- Pre-Authentication:** Two radio buttons: "Personal (Pre-Shared Key)" (selected) and "Enterprise (RADIUS)".
- Encryption Type:** Three radio buttons: "TKIP", "AES" (selected), and "Auto".
- Pre-Shared Key:** A text input field containing "12345678" and a clear button (X).
- Buttons:** "Save" and "Cancel" buttons at the bottom.

Figure 4-9 Configure Wireless Settings

Chapter 5. Configuring the AP

This chapter delivers a detailed presentation of AP's functionalities and features under 4 main menus (**Operation Mode**, **System Configuration**, **Tools** and **Device Status**) below, allowing you to manage the AP with ease.



Figure 5-1 Main Menu

5.1 Operation Mode

On this page, you can select different operation modes of the WNAP-6325, including Access Point, Client, WDS AP, WDS Client, AP Router and Wireless ISP.

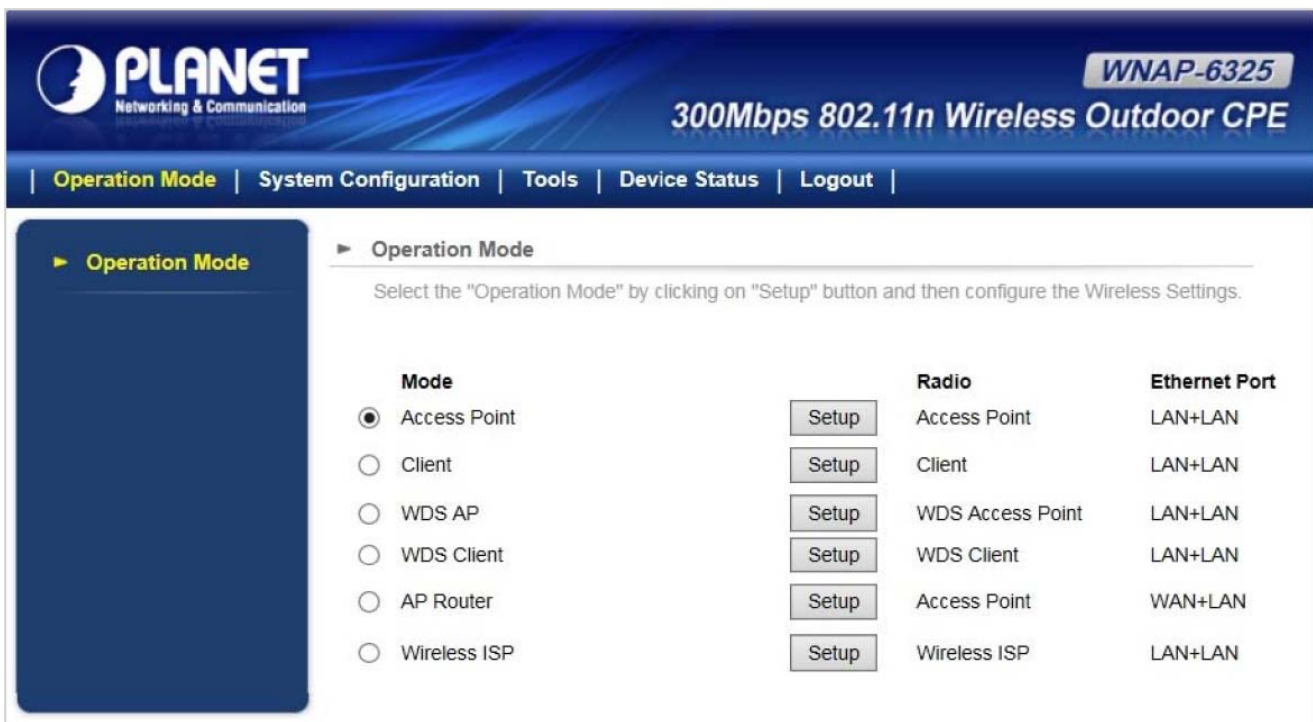
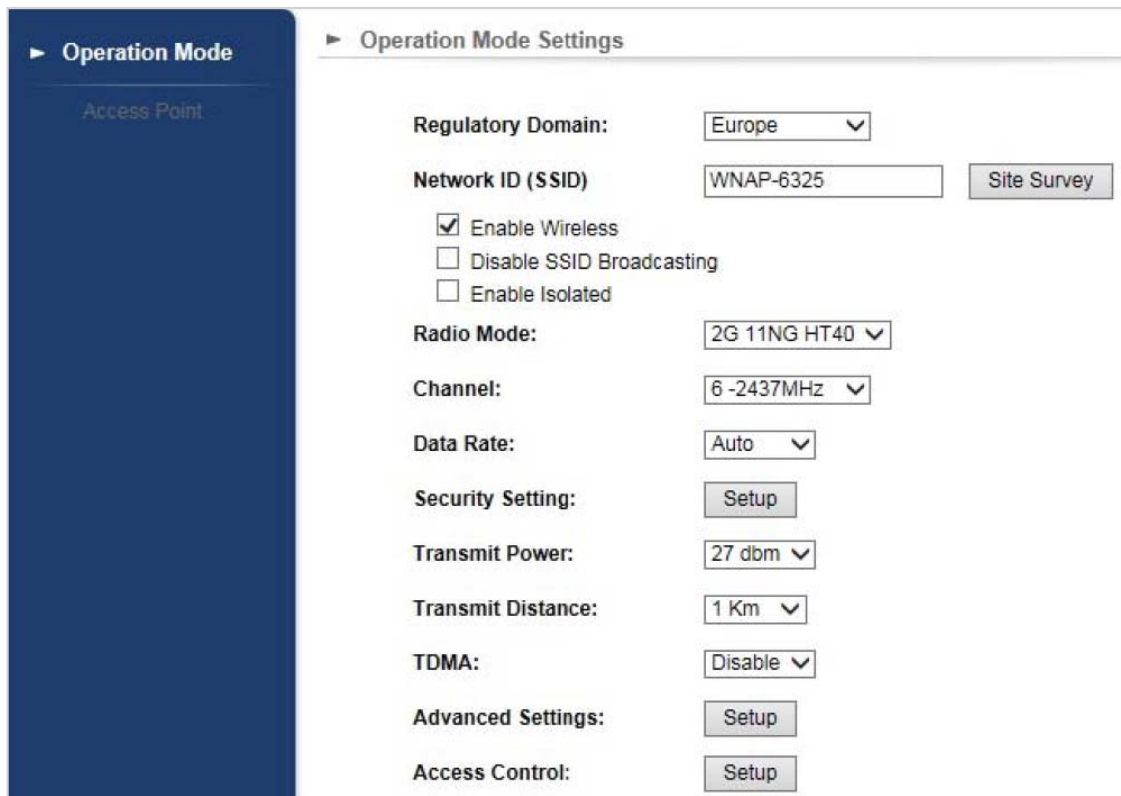


Figure 5-2 Operation Mode

5.1.1 Access Point

Click **“Operation Mode”** → **“Access Point”** and the following page will be displayed. This section allows you to configure the Access Point mode.



Operation Mode

Access Point

Operation Mode Settings

Regulatory Domain: Europe

Network ID (SSID): WNAP-6325 Site Survey

☒ Enable Wireless

☐ Disable SSID Broadcasting

☐ Enable Isolated

Radio Mode: 2G 11NG HT40

Channel: 6 -2437MHz

Data Rate: Auto

Security Setting: Setup

Transmit Power: 27 dbm

Transmit Distance: 1 Km

TDMA: Disable

Advanced Settings: Setup

Access Control: Setup

Figure 5-3 Basic Settings - AP

Object	Description
• Regulatory Domain	Select your domain from the list.
• Network SSID	It is the wireless network name. The default SSID is WNAP-6325 .
• Site Survey	Click " Site Survey " to check the signal of remote sites.
• Enable Wireless	Check it to enable Wireless function.
• Disable SSID Broadcasting	Check it to disable SSID broadcasting.
Enable Isolated	Check it to isolate each connected wireless clients so that they cannot access each other.
Radio Mode	Select the channel width to " Auto Select ", " 2G 11NG HT20 " or " 2G 11NG HT40 "
• Channel	Select the operating channel you would like to use. The channel range will be changed by selecting a different domain.
• Data Rate	Select MCS0~15 or Auto from the pull-down menu. The default is " Auto ".
• Security Setting	Press "Setup" for more configurations. Please refer to 5.1.7 Security Setting for more information.
• Transmit Power	The range of transmit power is " 12~27 dbm ". In case of shortening the distance and the coverage of the wireless

	network, input a smaller value to reduce the radio transmission power.
• Transmit Distance	Select a specified distance of the two nodes.
• TDMA	Displays the System Time.
• Advanced Settings	Press “Setup” for more configurations. Please refer to 5.1.8 Advanced Settings for more information.
• Access Control	Press “Setup” for more configurations. Please refer to 5.1.9 Access Control for more information.

5.1.2 Client

Click **“Operation Mode”** → **“Client”** and the following page will be displayed. This section allows you to configure the Client mode.

The screenshot shows the 'Client' configuration page. On the left, a dark blue sidebar has 'Operation Mode' expanded, with 'Client' selected. The main content area, titled 'Operation Mode Settings', contains the following fields and controls:

- Regulatory Domain:** A dropdown menu set to 'Europe'.
- Remote AP SSID:** A text input field containing 'WNAP-6325' and a 'Site Survey' button to its right.
- Enable Wireless:** A checked checkbox.
- Disable SSID Broadcasting:** An unchecked checkbox.
- Enable Isolated:** An unchecked checkbox.
- Lock to AP MAC:** A text input field containing '00:00:00:00:00:00'.
- Radio Mode:** A dropdown menu set to '2G 11NG HT40'.
- Channel:** A dropdown menu set to 'Auto Channel'.
- Data Rate:** A dropdown menu set to 'Auto'.
- Security Setting:** A 'Setup' button.
- Transmit Power:** A dropdown menu set to '27 dbm'.
- Transmit Distance:** A dropdown menu set to '1 Km'.
- TDMA:** A dropdown menu set to 'Disable'.
- Advanced Settings:** A 'Setup' button.
- Access Control:** A 'Setup' button.

Figure 5-4 Basic Settings - Client

Object	Description
• Regulatory Domain	Select your domain from the list.
• Network SSID	It is the wireless network name. The default SSID is WNAP-6325 .
• Site Survey	Click “Site Survey” to find the remote sites to associate.
• Enable Wireless	Check it to enable Wireless function.

• Disable SSID Broadcasting	Check it to disable SSID broadcasting.
Enable Isolated	Check it to isolate each connected wireless clients so that they cannot access each other.
Lock to AP MAC	Enter the Mac address of the remote AP.
Radio Mode	Select the channel width to "Auto Select" , "2G 11NG HT20" or "2G 11NG HT40"
• Data Rate	Select MCS0~15 or Auto from the pull-down menu. The default is "Auto" .
• Security Setting	Press "Setup" for more configurations. Please refer to 5.1.7 Security Setting for more information.
• Transmit Power	The range of Transmit power is "12~27 dbm" . In case of shortening the distance and the coverage of the wireless network, input a smaller value to reduce the radio transmission power.
• Transmit Distance	Select a specified distance of the two nodes.
• TDMA	Displays the System Time.
• Advanced Settings	Press "Setup" for more configurations. Please refer to 5.1.8 Advanced Settings for more information.
• Access Control	Press "Setup" for more configurations. Please refer to 5.1.9 Access Control for more information.

5.1.3 WDS AP

Click **"Operation Mode"** → **"WDS AP"** and the following page will be displayed. This section allows you to configure the WDS AP mode. For each wireless parameter, please refer to section **5.1.1 AP** for more information.

Operation Mode

WDS AP

Operation Mode Settings

Regulatory Domain: Europe ▼

Network ID (SSID): WNAP-6325 Site Survey

☒ Enable Wireless
☐ Disable SSID Broadcasting
☐ Enable Isolated

Radio Mode: 2G 11NG HT40 ▼

Channel: 6 -2437MHz ▼

Data Rate: Auto ▼

Security Setting: Setup

Transmit Power: 27 dbm ▼

Transmit Distance: 1 Km ▼

TDMA: Disable ▼

Advanced Settings: Setup

Access Control: Setup

Figure 5-5 Basic Settings – WDS AP

5.1.4 WDS Client

Click “**Operation Mode**” → “**WDS Client**” and the following page will be displayed. This section allows you to configure the WDS Client mode. For each wireless parameter, please refer to section **5.1.2 Client** for more information.

► Operation Mode

WDS Client

► Operation Mode Settings

Regulatory Domain: Europe ▼

Remote AP SSID: WNAP-6325 Site Survey

☒ Enable Wireless
☐ Disable SSID Broadcasting
☐ Enable Isolated

Lock to AP MAC: 00:00:00:00:00:00

Radio Mode: 2G 11NG HT40 ▼

Channel: Auto Channel ▼

Data Rate: Auto ▼

Security Setting: Setup

Transmit Power: 27 dbm ▼

Transmit Distance: 1 Km ▼

TDMA: Disable ▼

Advanced Settings: Setup

Access Control: Setup

Figure 5-6 Basic Settings – WDS Client

5.1.5 AP Router

Click “**Operation Mode**” → “**AP Router**” and the following page will be displayed. This section allows you to configure the AP Router mode.

Operation Mode

AP Router

Operation Mode Settings

Regulatory Domain: Europe

Network ID (SSID): WNAP-6325 [Site Survey](#)

☒ Enable Wireless
☐ Disable SSID Broadcasting
☐ Enable Isolated

Radio Mode: 2G 11NG HT40

Channel: 6 -2437MHz

Data Rate: Auto

Security Setting: [Setup](#)

Transmit Power: 27 dbm

Transmit Distance: 1 Km

TDMA: Disable

Advanced Settings: [Setup](#)

Access Control: [Setup](#)

WAN Port Settings: [Setup](#)

Dynamic DNS Settings: [Setup](#)

Remote Management: [Setup](#)

DHCP Server Settings: [Setup](#)

DMZ Settings: [Setup](#)

Virtual Server Settings: [Setup](#)

IP Filtering Settings: [Setup](#)

Port Filtering Settings: [Setup](#)

MAC Filtering Settings: [Setup](#)

Bandwidth Control: [Setup](#)

SNMP: [Setup](#)

Figure 5-7 Basic Settings – AP Router

5.1.6 Wireless ISP

Click “**Operation Mode**” → “**Wireless ISP**” and the following page will be displayed. This section allows you to configure the Wireless ISP mode.

Operation Mode

Wireless ISP

Operation Mode Settings

Regulatory Domain: Europe

Remote AP SSID: WNAP-6325 Site Survey

☒ Enable Wireless
☐ Disable SSID Broadcasting
☐ Enable Isolated

Lock to AP MAC: 00:00:00:00:00:00

Radio Mode: 2G 11NG HT40

Channel: Auto Channel

Data Rate: Auto

Security Setting: Setup

Transmit Power: 27 dbm

Transmit Distance: 1 Km

TDMA: Disable

Advanced Settings: Setup

Access Control: Setup

WAN Port Settings: Setup

Dynamic DNS Settings: Setup

Remote Management: Setup

DHCP Server Settings: Setup

DMZ Settings: Setup

Virtual Server Settings: Setup

IP Filtering Settings: Setup

Port Filtering Settings: Setup

MAC Filtering Settings: Setup

Bandwidth Control: Setup

SNMP: Setup

Figure 5-8 Basic Settings – WISP

5.1.7 Security Setting

Choose the operation mode you required, and then enter “**Security Setting**” by clicking the **Setup** button next to it and the following page will be displayed. This section allows you to configure the wireless security settings.

Security Settings

Select Encryption: None

Save Cancel

Figure 5-9 Security Settings

Object	Description
• Select Encryption	Select the encryption that you need. None: No security required WEP: Input 5, 13 (ASCII) or 10, 26 (HEX) character for WEP key. WPA: Enter ASCII characters between 8 and 63 character or 8 to 64 hexadecimal characters. WPA2: Enter ASCII characters between 8 and 63 character or 8 to 64 hexadecimal characters. WPA-Mixed: Enter ASCII characters between 8 and 63 character or 8 to 64 hexadecimal characters.

■ None

Authentication is disabled and no password/key is required to connect to the access point.

■ WEP

WEP (Wired Equivalent Privacy) is a basic encryption. For a higher level of security consider using the WPA encryption.

Figure 5-10 Security Settings – WEP

Object	Description
• Authentication	You can select Open System , Shared Key or Auto .
• Key Length	Choose the WEP key length. You can choose 64-bit or 128-bit .
• Key Format	You can choose ASCII or Hex .
• Encryption Key	Enter the keys in the fields.

■ WPA

Security Settings

Select Encryption:

Pre-Authentication: ☒ Personal (Pre-Shared Key) ☐ Enterprise (RADIUS)

Encryption Type: ☐ TKIP ☐ AES ☒ Auto

Pre-Shared Key:

Figure 5-11 Security Settings – WPA Personal

Pre-Authentication: ☐ Personal (Pre-Shared Key) ☒ Enterprise (RADIUS)

Encryption Type: ☐ TKIP ☐ AES ☒ Auto

RADIUS Server IP Address:

RADIUS Server Port:

RADIUS Server Password:

EAP Reauthorization Period: Seconds (300 ~ 3600 Seconds)

RSN Reauthorization:

WPA Group Rekey Interval: Seconds (300 ~ 3600 Seconds)

Figure 5-12 Security Settings – WPA Enterprise

Object	Description
• Pre-Authentication	Select " Personal (Pre-Shared Key) " or " Enterprise (RADIUS) " encryption type.
• Encryption Type	Set the WPA to be TKIP , AES or Auto .
• Pre-Shared Key	Enter the keys in the fields.
• RADIUS Server IP Address	Enter the RADIUS server host IP address.
• RADIUS Server Port	Set the UDP port used in the authentication protocol of the RADIUS server. Value must be between 1 and 65535.
• RADIUS Server Password	Enter a shared secret/password between 1 and 99 characters in length.

• EAP Reauthorization Period	Set duration of session timeout in seconds between 300 and 3600.
• RSN Reauthorization	Enable or disable RSN reauthorization.
• WPA Group Rekey Interval	Set duration of session timeout in seconds between 300 and 3600.

■ WPA2

Please refer to WPA for more information.

Security Settings

Select Encryption: WPA2

Pre-Authentication: ☒ Personal (Pre-Shared Key) ☐ Enterprise (RADIUS)

Encryption Type: ☐ TKIP ☐ AES ☒ Auto

Pre-Shared Key:

Save Cancel

Figure 5-13 Security Settings – WPA2 Personal

Pre-Authentication: ☐ Personal (Pre-Shared Key) ☒ Enterprise (RADIUS)

Encryption Type: ☐ TKIP ☐ AES ☒ Auto

RADIUS Server IP Address:

RADIUS Server Port:

RADIUS Server Password:

EAP Reauthorization Period: Seconds (300 ~ 3600 Seconds)

RSN Reauthorization: Disable

WPA Group Rekey Interval: Seconds (300 ~ 3600 Seconds)

Save Cancel

Figure 5-14 Security Settings – WPA2 Enterprise

■ WPA-Mixed

Please refer to WPA for more information.

Security Settings

Select Encryption: WPA-Mixed ▼

Pre-Authentication: ☒ Personal (Pre-Shared Key) ☐ Enterprise (RADIUS)

Encryption Type: ☐ TKIP ☐ AES ☒ Auto

Pre-Shared Key:

Save Cancel

Figure 5-15 Security Settings – WPA-Mixed Personal

Pre-Authentication: ☐ Personal (Pre-Shared Key) ☒ Enterprise (RADIUS)

Encryption Type: ☐ TKIP ☐ AES ☒ Auto

RADIUS Server IP Address:

RADIUS Server Port:

RADIUS Server Password:

EAP Reauthorization Period: Seconds (300 ~ 3600 Seconds)

RSN Reauthorization: Disable ▼

WPA Group Rekey Interval: Seconds (300 ~ 3600 Seconds)

Save Cancel

Figure 5-16 Security Settings – WPA-Mixed Enterprise

5.1.8 Advanced Settings

Choose the operation mode you require, and then enter “**Advanced Settings**” by clicking **Setup** button next to it and the following page will be displayed. This section allows you to configure the wireless advanced settings.