

**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.

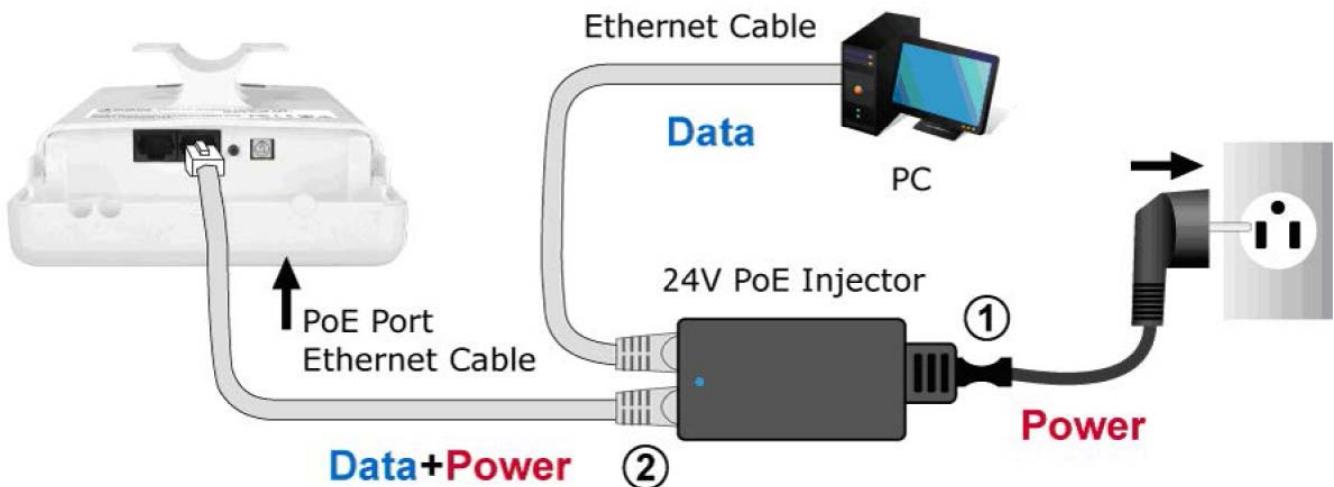


Figure 3-3 Connect the PoE injector

**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

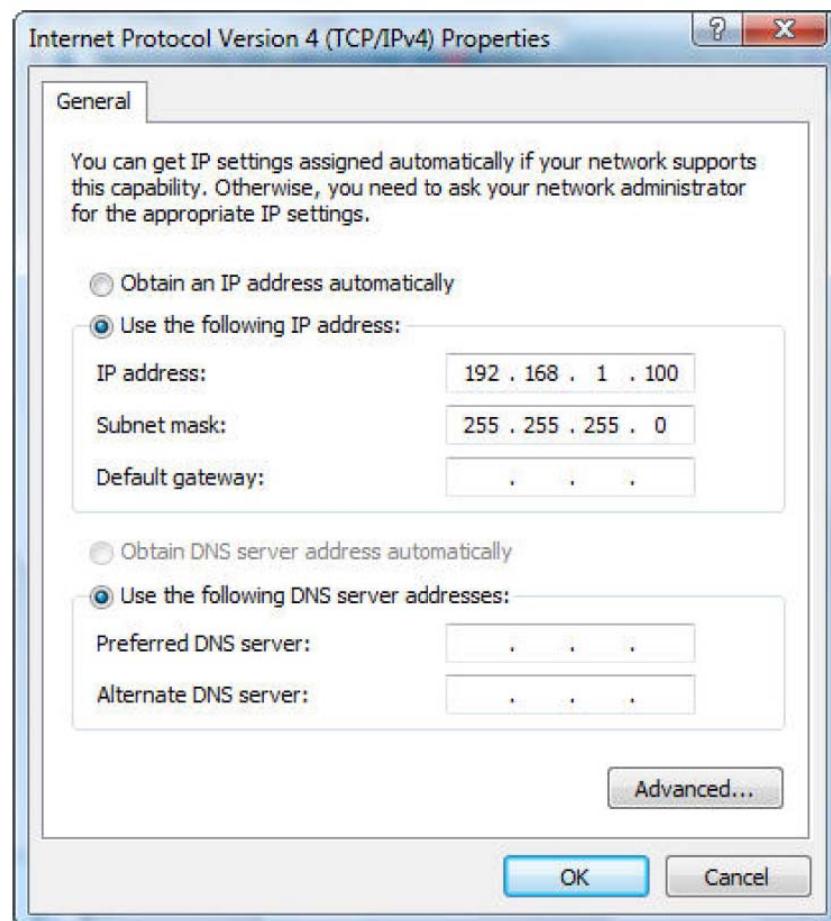


Figure 4-1 TCP/IP Setting

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.

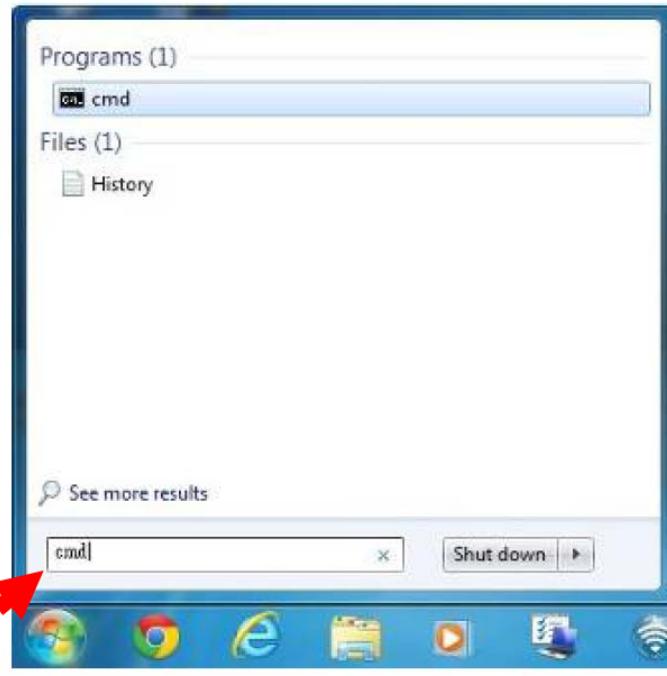


Figure 4-2 Windows Start Menu

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

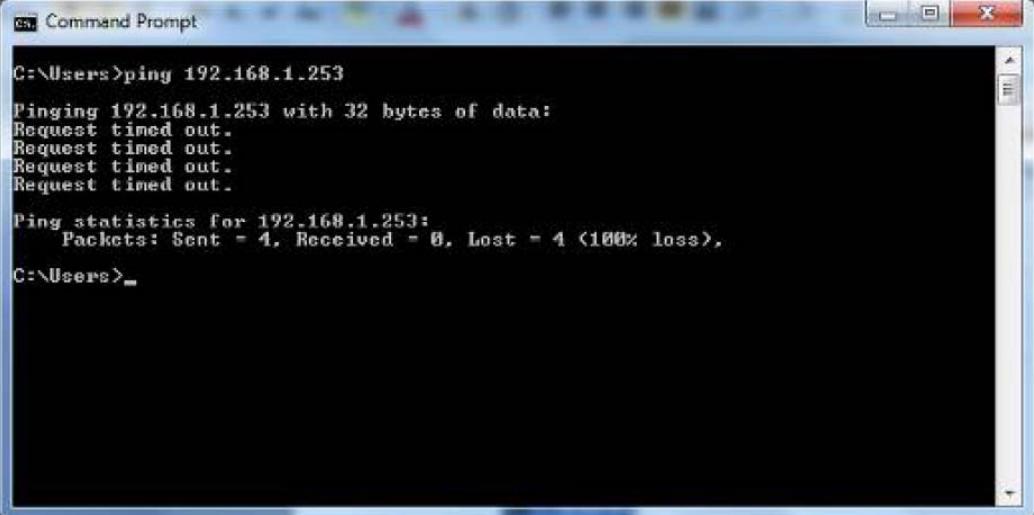
If the result displayed is similar to **Figure 4-3**, it means the connection between your PC and the AP has been established well.

```
cmd Command Prompt
C:\Users>ping 192.168.1.253
Pinging 192.168.1.253 with 32 bytes of data:
Reply from 192.168.1.253: bytes=32 time<1ms TTL=64

Ping statistics for 192.168.1.253:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms
C:\Users>
```

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.



```
Command Prompt  
C:\Users>ping 192.168.1.253  
Pinging 192.168.1.253 with 32 bytes of data:  
Request timed out.  
Request timed out.  
Request timed out.  
Request timed out.  
  
Ping statistics for 192.168.1.253:  
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),  
C:\Users>_
```

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.

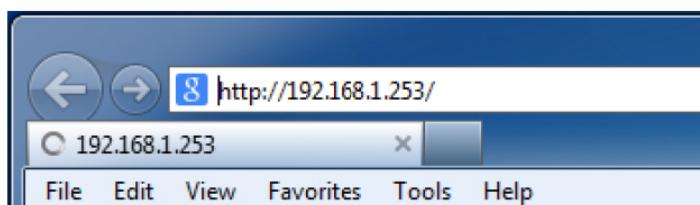


Figure 4-5 Login by default IP address

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**



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](#)

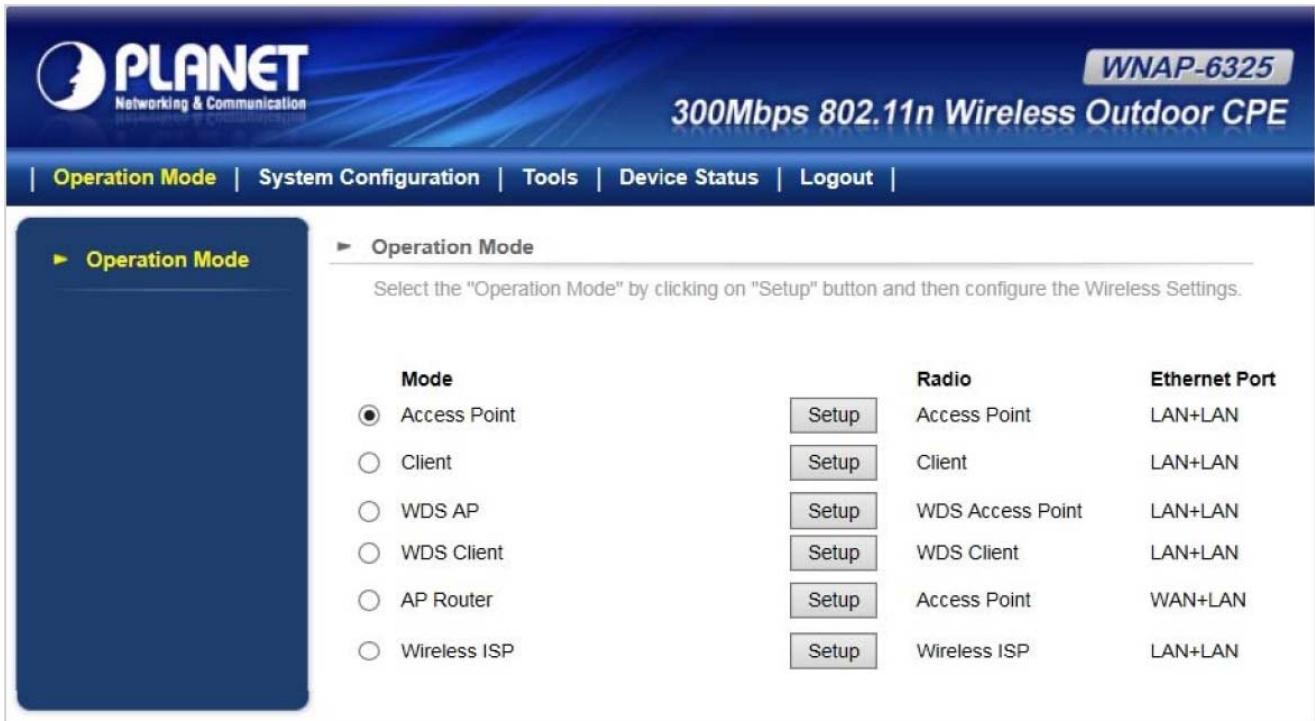


Figure 4-7 WNAP-6325 Web UI Screenshot

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

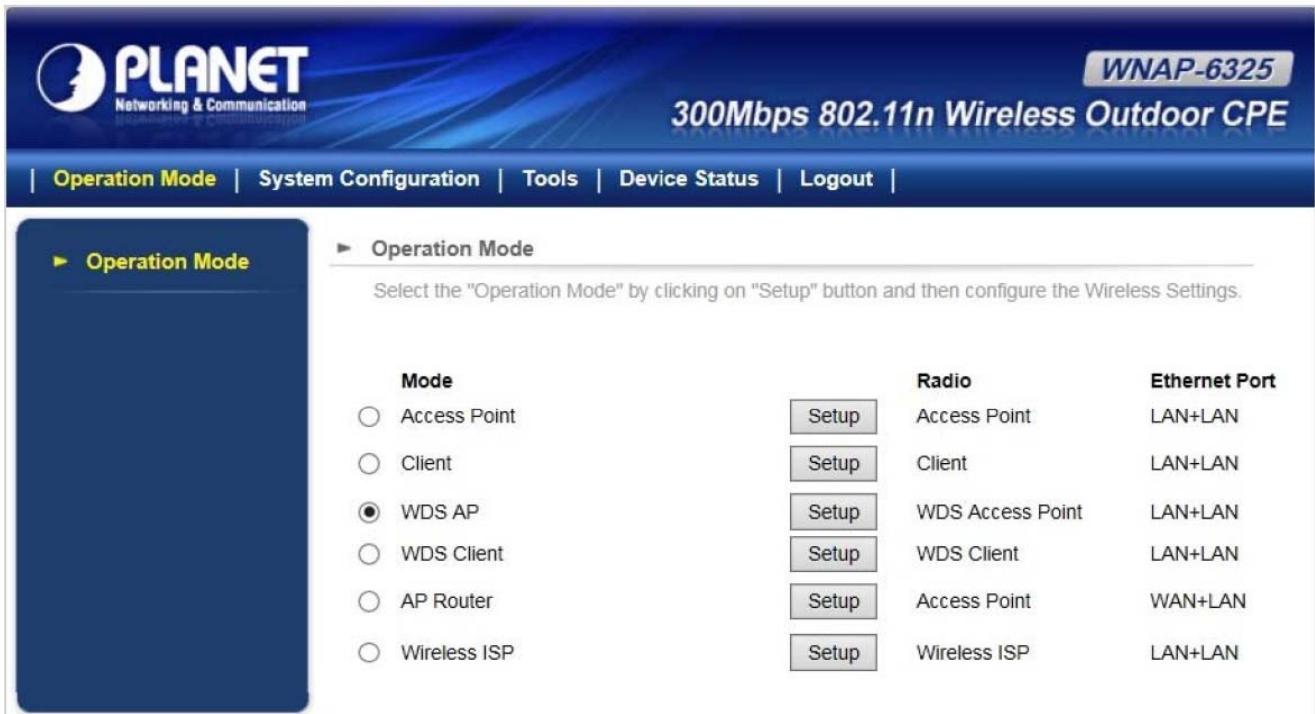


Figure 4-8 Choose Operation Mode

**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-based configuration interface for a WNAP-6325 access point. The URL in the address bar is <http://192.168.1.253/security.asp>. The main title is "Security Settings". The configuration fields include:

- Select Encryption:** A dropdown menu showing "WPA2" with a dropdown arrow.
- Pre-Authentication:** Radio buttons for "Personal (Pre-Shared Key)" (selected) and "Enterprise (RADIUS)".
- Encryption Type:** Radio buttons for "TKIP", "AES" (selected), and "Auto".
- Pre-Shared Key:** An input field containing "12345678" with a clear button ("x").

At the bottom are two buttons: "Save" and "Cancel".

**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.

Mode	Radio	Ethernet Port
<input checked="" type="radio"/> Access Point	Setup	Access Point LAN+LAN
<input type="radio"/> Client	Setup	Client LAN+LAN
<input type="radio"/> WDS AP	Setup	WDS Access Point LAN+LAN
<input type="radio"/> WDS Client	Setup	WDS Client LAN+LAN
<input type="radio"/> AP Router	Setup	Access Point WAN+LAN
<input type="radio"/> Wireless ISP	Setup	Wireless ISP LAN+LAN

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.

Figure 5-3 Basic Settings - AP

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

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

Figure 5-4 Basic Settings - Client

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

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

The screenshot shows the 'Operation Mode Settings' page for a WDS AP. The left sidebar has a dark blue background with the title 'Operation Mode' and the sub-option 'WDS AP'. The main panel has a light gray background with the title 'Operation Mode Settings'. It contains the following configuration fields:

Regulatory Domain:	Europe
Network ID (SSID):	WNAP-6325
<input checked="" type="checkbox"/> Enable Wireless	
<input type="checkbox"/> Disable SSID Broadcasting	
<input type="checkbox"/> 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.

The screenshot shows the 'Operation Mode' settings for a WDS Client. On the left, a sidebar lists 'WDS Client' under 'Operation Mode'. The main panel is titled 'Operation Mode Settings' and contains the following configuration options:

Regulatory Domain:	Europe
Remote AP SSID:	WNAP-6325
<input checked="" type="checkbox"/> Enable Wireless	
<input type="checkbox"/> Disable SSID Broadcasting	
<input type="checkbox"/> 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.

The screenshot shows the 'Operation Mode' settings for an AP Router. On the left, a sidebar lists various modes: AP Router, Bridge, WDS, WISP, Mesh, and Hybrid. The 'AP Router' mode is selected. The main panel is titled 'Operation Mode Settings' and contains the following configuration options:

Regulatory Domain:	Europe
Network ID (SSID):	WNAP-6325
<input checked="" type="checkbox"/> Enable Wireless	
<input type="checkbox"/> Disable SSID Broadcasting	
<input type="checkbox"/> 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.

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.

Figure 5-9 Security Settings

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

#### ■ 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.

The screenshot shows a 'Security Settings' dialog box for WEP. At the top is a title bar. Below it, a 'Select Encryption:' dropdown is set to 'WEP'. Underneath are four groups of settings: 'Authentication' (radio buttons for 'Open System', 'Shared Key', and 'Auto', with 'Open System' selected), 'Key Length' (radio buttons for '64-bit' and '128-bit', with '64-bit' selected), 'Key Format' (a dropdown menu showing 'ASCII(5 Characters)' as the current selection), and an 'Encryption Key' input field containing a placeholder 'XXXXXXXXXX'. At the bottom are 'Save' and 'Cancel' buttons.

Figure 5-10 Security Settings – WEP

Object	Description
• Authentication	You can select <b>Open System</b> , <b>Shared Key</b> or <b>Auto</b> .
• Key Length	Choose the WEP key length. You can choose <b>64-bit</b> or <b>128-bit</b> .
• Key Format	You can choose <b>ASCII</b> or <b>Hex</b> .
• 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.

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

## ■ WPA2

Please refer to WPA for more information.

**Security Settings**

---

Select Encryption:

---

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

Encryption Type:  TKIP  AES  Auto

Pre-Shared Key:

**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:

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

**Figure 5-14 Security Settings – WPA2 Enterprise**

### ■ WPA-Mixed

Please refer to WPA for more information.

The screenshot shows a configuration interface titled "Security Settings". At the top, a dropdown menu labeled "Select Encryption" is set to "WPA-Mixed". Below it, under "Pre-Authentication", the "Personal (Pre-Shared Key)" radio button is selected. Under "Encryption Type", the "Auto" radio button is selected. A text input field for "Pre-Shared Key" is present. At the bottom are "Save" and "Cancel" buttons.

**Figure 5-15** Security Settings – WPA-Mixed Personal

The screenshot shows a configuration interface for "WPA-Mixed Enterprise". It includes fields for "RADIUS Server IP Address", "RADIUS Server Port", and "RADIUS Server Password". There are also fields for "EAP Reauthorization Period" (set to "Disable") and "RSN Reauthorization" (set to "Disable"). The "WPA Group Rekey Interval" is set to 300 seconds. At the bottom are "Save" and "Cancel" buttons.

**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.