



# USER MANUAL

## WAP-5920

### AC750 Wireless Extender

Version A2.0, March 27, 2018



**Preface**

This manual provides information related to the installation and operation of this Dual-Band Wireless LAN Extender. The individual reading this manual is presumed to have a basic understanding of home networking terminology and concepts.

If you find the product to be inoperable or malfunctioning, please contact technical support for immediate service\_

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For product updates, new product release, manual revision, or software upgrades, please visit our website at <http://www.comtrend.com>

**Important Safety Instructions**

With reference to unpacking, installation, use, and maintenance of your electronic Dual-Band Wireless LAN Extender, the following basic guidelines are recommended:

Do not use or install this product near water, to avoid fire or shock hazard. For example, near a bathtub, kitchen sink or laundry tub, or near a swimming pool. Also, do not expose the equipment to rain or damp areas (e.g. a wet basement).

**Federal Communication Commission Interference Statement**

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.

**FCC Caution**

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.

For product available in the USA/Canada market, only channel 1~11 can be operated. Selection of other channels is not possible.

This device is restricted to indoor use.

**FCC Radiation Exposure Statement**

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

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<b>NOTE:</b> This document is subject to change without notice.
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**Protect Our Environment**

This symbol indicates that when the equipment has reached the end of its useful life, it must be taken to a recycling center and processed separate from domestic waste.

The cardboard box, the plastic contained in the packaging, and the parts that make up this router can be recycled in accordance with regionally established regulations. Never dispose of this electronic equipment along with your household waste; you may be subject to penalties or sanctions under the law. Instead, please be responsible and ask for disposal instructions from your local government.

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# Chapter 1 Product Information

## 1-1 Introduction and Features

The AC750 Dual-Band Wireless Extender has a compact design, and provides excellent network performance to extend your Wi-Fi signal and wireless coverage.

*Features of this wireless extender include:*

- Easily extends the wireless signal inside your home or office.
- Compact design while maintaining excellent network performance.
- Supports 802.11a/b/g/n and 802.11ac standards, it can provide up to 300Mbps for 2.4Ghz on 11n mode and 433Mbps for 5Ghz on 11ac mode.
- LED signal indicators to easily realize the best location placement to extend the WiFi signal for best wireless performance.
- Supports Repeater mode, AP mode and Access Point client mode.
- Integrated hardware switch to change the operation mode quickly without logging into the web interface.
- WPS (Wi-Fi Protected Setup) hardware button for easy installation and wireless security.

## **1-2 System Requirements**

- Wireless network card which is compatible with 802.11a/b/g/n and 802.11 ac wireless network standards.
- Windows XP, Windows 7, Windows 8 or MAC OS or Linux operating system.
- CD-ROM drive.



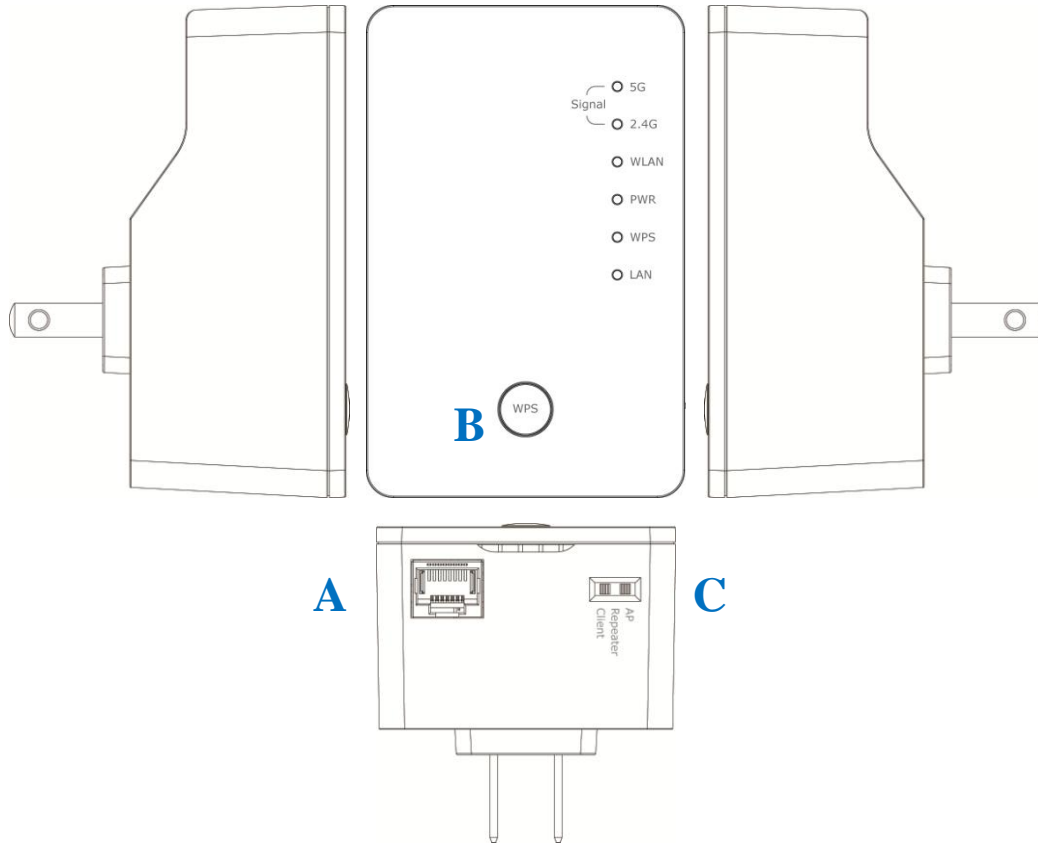
## 1-3 Package Contents

Before you start to use this wireless extender, please check if there's anything missing in the package, and contact your place of purchase to claim for missing items:

- Wireless Extender (1 pcs) ..... 1
- Quick Installation Guide (1 pcs) ..... 2

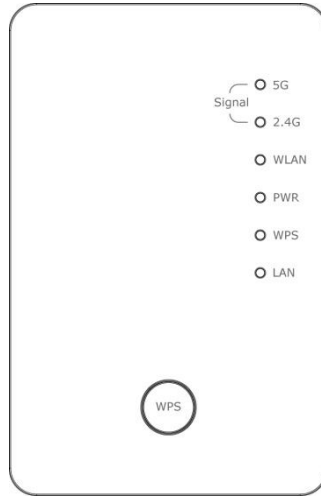
# 1-4 Get familiar with your new wireless extender

## Interface Descriptions



Item	Item Name	Description
A	LAN	10/100M Ethernet LAN Port with Auto-MDI/MDI-X. Connect to a computer, switch or hub for local network sharing.
B	Reset / WPS	Reset the extender to factory default settings (clear all settings) or start the WPS function. Press this button and hold for 10 seconds to restore all settings to factory defaults, or press this button for less than 5 seconds to start the WPS function.
C	AP/Repeater/Client	Switch the button to change operating mode to Access Point, Repeater or Client mode.

*LED Activity*



LED	Color	LED Status	Description
Signal Status (5G)	Green	Steady ON	Good signal reception (signal strength 100%~50%)
		Blinking	Normal signal reception Slow blinking (signal strength 50%~25%)  Poor signal reception Quick blinking (signal strength <25%)
		Off	Out of signal range or disconnected/ or in LED off mode.
Signal Status (2.4G)	Green	Steady ON	1. Good signal (strength 100%~50%)
		Blinking	1. Poor signal Slow blinking (signal strength <50%~25%) 2. Quick blinking (signal strength <25%)
		Off	1. No signal/ or LED off mode
WLAN	Green	Blinking	Connect to wireless Router/or AP, wireless function is active (transferring or receiving data)
		Off	Wireless network is switched off/ or LED off mode
Power	Green	Steady ON	Power is turned on In LED off mode (except power LED is on, other LEDs are off *)  <i>*If user selects to enable "LED OFF mode",</i>

			<i>power LED On/Off depends on user's selection, user can select to leave only power LED on or turn off all LEDs including this power LED</i>
		Slow Blinking	Ready for "Reset to factory default", power LED is blinking
		Off	Power is turned off
WPS	Green	Blinking	WPS is in progress of waiting for another WPS device's connection, blinking (0.2 second on, 0.1 second off) for 2 minutes
		Quick blinking	WPS error, blinking (0.1 second on, 0.1 second off)
		Off	NO WPS is in progress/ LED off mode
LAN	Green	Steady ON	LAN port is connected
		Blinking	LAN port is active (transferring or receiving data)
		Off	LAN port is not connected/ or LED off mode

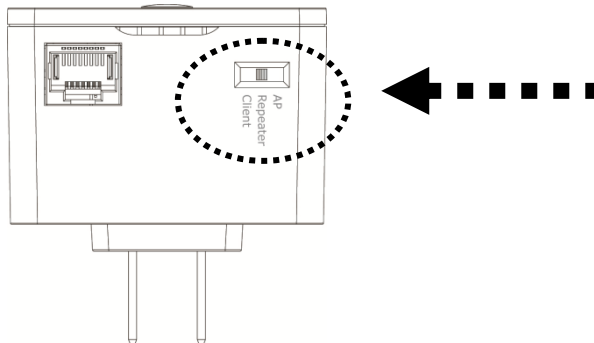
## CHAPTER 2 Repeater Mode

This chapter will explain how to quickly install this device by using the quick setup method and explain each detailed setting on the web user interface while in repeater mode.

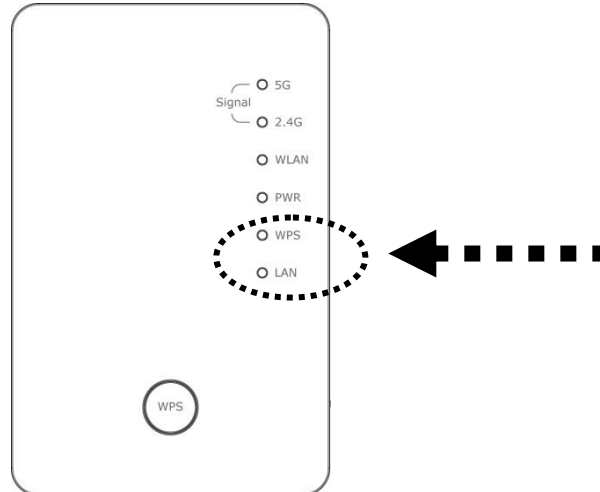
### 2-1 Repeater Mode Quick Installation Guide

For first time setup and installation, move this Wireless LAN Extender close to the Wireless Broadband Router or Access point you wish to connect to. After installation is complete, move this Wireless LAN Extender to the place you wish to permanently wish to use it.

Switch mode selector to '**Repeater**'.



Plug this Wireless LAN Extender into a power outlet on the wall, and you should see the '**Power**' LED light up in few seconds. If not, check if the power outlet you're using is working.



You can setup the wireless connection via the 'Hardware WPS button' or 'Software web browser'.

If your broadband router or access point also supports a 'WPS button', we recommend you to use the WPS button to establish connection.

**Using WPS button**

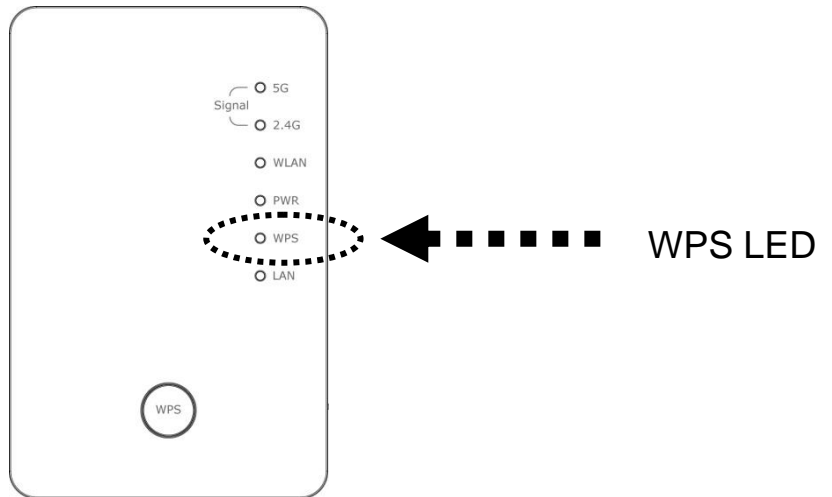
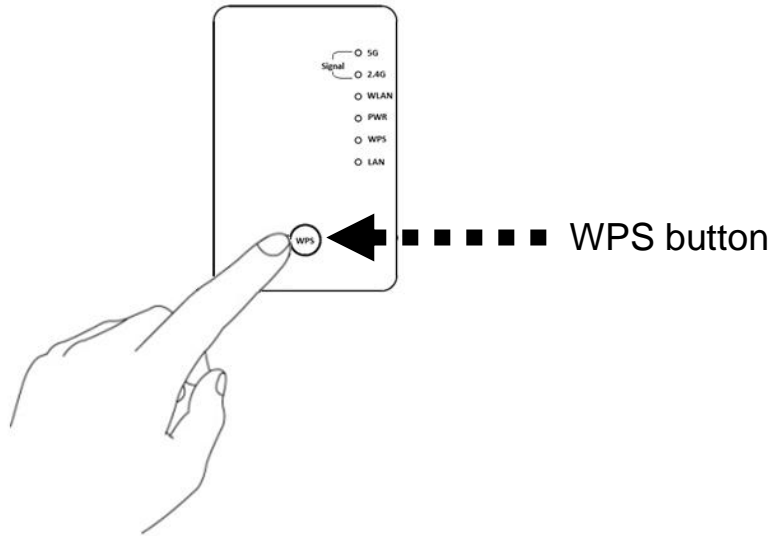
**- please go to section 2-1-1**

**Using Web browser**

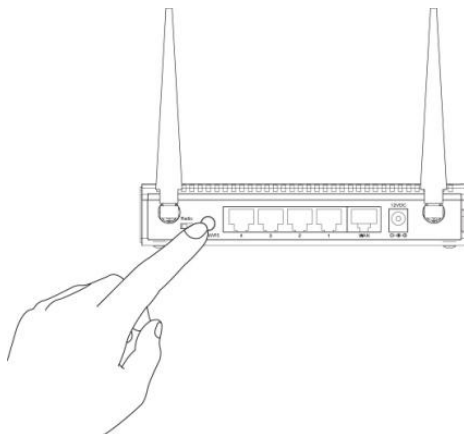
**- please go to section 2-1-2**

### **2-1-1 Hardware WPS button setup**

1. Press and hold the **WPS button** on the Wireless LAN Extender for 2 seconds, the '**WPS**' LED will start flashing.



2. Press the WPS button on the wireless broadband router or access point you wish to connect to within 2 minutes.

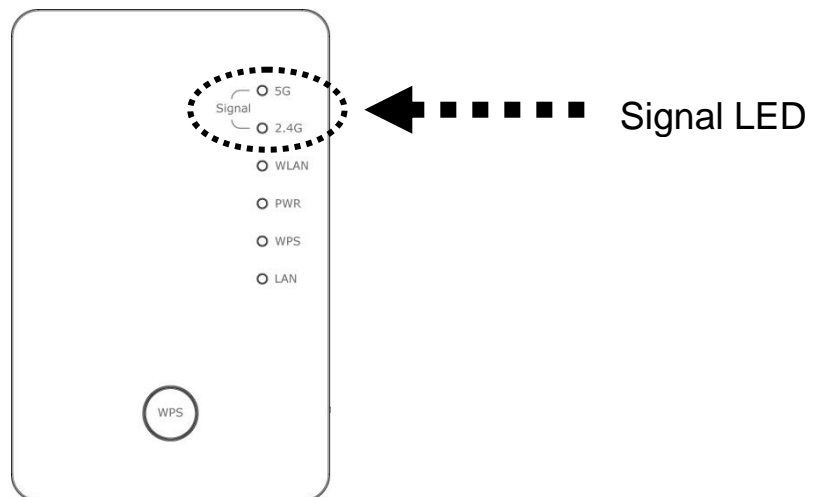


**NOTE: the WPS button position on the access point above is for reference; different devices may have different WPS button positions or locations.**

***TIP: If the access point you wish to connect to does not have a hardware WPS button, you can also use its web configuration menu's WPS function to establish connection. Or you can login to the WAP-5920's web user interface to perform quick setup (for detailed setup refer to '2-1-2 Web browser quick setup' manual)***

3. When WPS connection is successfully established, the extender will reboot immediately to make your settings take effect ; if the 'WPS' LED flashes fast, a problem has occurred, please wait for 2 minutes until the 'WPS' LED goes off, and start from step(1) again.

When quick installation is successful, the 'Signal' LED will turn on.



4. Please move the Wireless LAN Extender to the place you wish to use it (the ideal place will be the center of your house) and plug this Wireless LAN Extender into a power outlet on the wall, the wireless connection will be established automatically as long as it's within range of your wireless router or access point.

You can check the 'Signal' LED status to understand signal reception level.

Steady light: Excellent, Flashing: Good, Fast flash: poor.

If the Signal LED is off, it means the device is out of wireless range of your wireless broadband router or access point. Move the extender closer to the broadband router until the extender device can receive a signal from the broadband router and extend its signal.

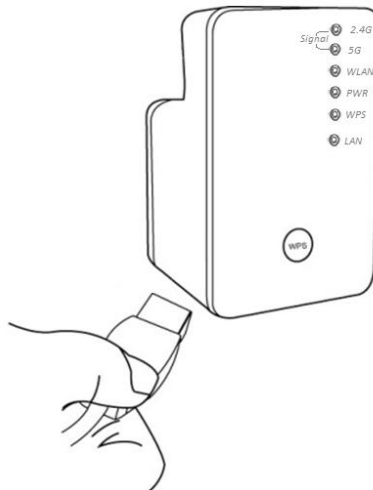


The quick installation setup is complete, you can refer to '2-2 Repeater mode Advanced Settings' to login to the web user interface for other advanced settings.

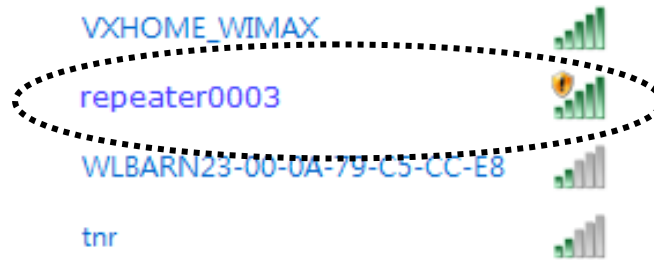
## 2-1-2 Web browser quick setup

Before you can connect to the extender and start the configuration procedures, your computer must be able to get an IP address automatically (use dynamic IP address). If it's set to use a static IP address, or you're unsure, please refer to '[Chapter 5: 5-1 Configuring TCP/IP on PC](#)' to set your computer to use dynamic IP address.

1. Use an Ethernet cable to connect your computer's Ethernet port and the wireless extender's Ethernet port.



Or use your computer's wireless configuration utility to search for an access point named '**repeater0003**' and get connected. (The default SSID of this extender device is '**repeater0003**', 0003 is for reference, it is *the last 4 digits of the device's MAC number. Each device has a different MAC number; please find it on your device label.*)



**NOTE: this default SSID 'repeater0003' is for reference, different devices may have different last 4 digits.**

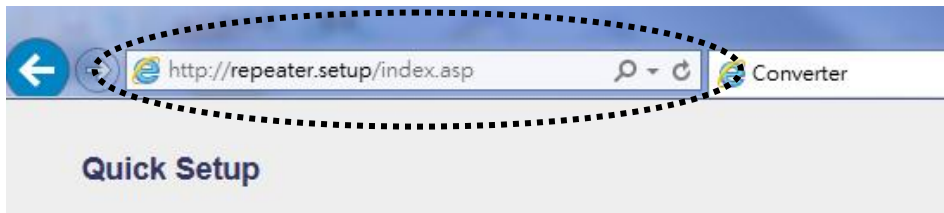
If you are using a wireless connection in Windows 7 and encountered the following screen, please click "Connect the network without setting it up" then you can successfully link to the extender. Do NOT click "OK".

In case you click 'OK', Windows 7 will ask for the security key, please click "Cancel" to go back to this page.

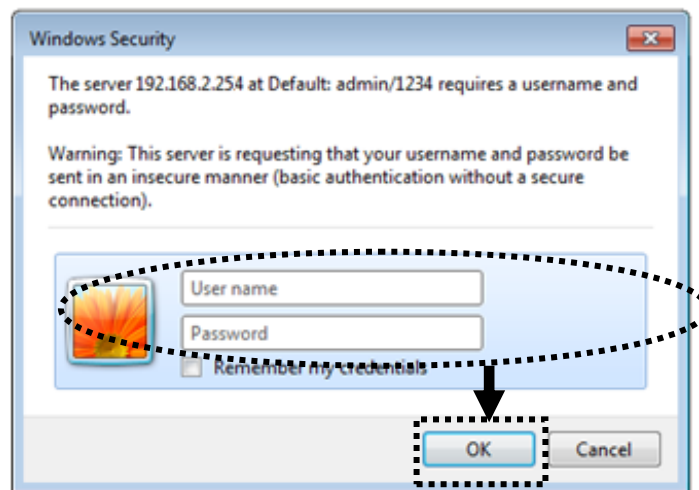


**NOTE: this 'repeater0003' is for reference, 0003 are the last 4 digits of the device's MAC number. Each device has a different MAC number; please find it on your device label.)**

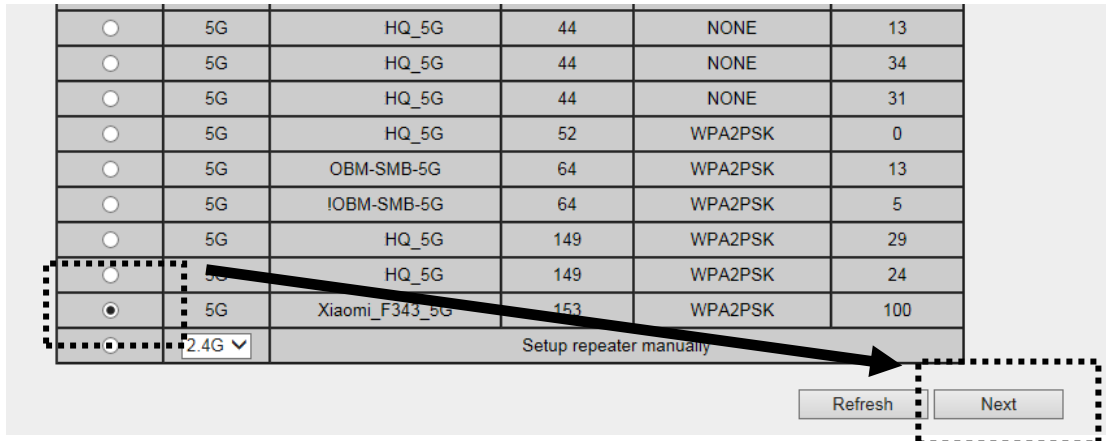
2. Open your web browser, it will redirect to the web user interface setting page. (or you can input the default IP address 'http://repeater.setup' in the address bar) **You can also input the default IP 'http://192.168.2.252 or repeater.setup if your PC is Windows OS based.**



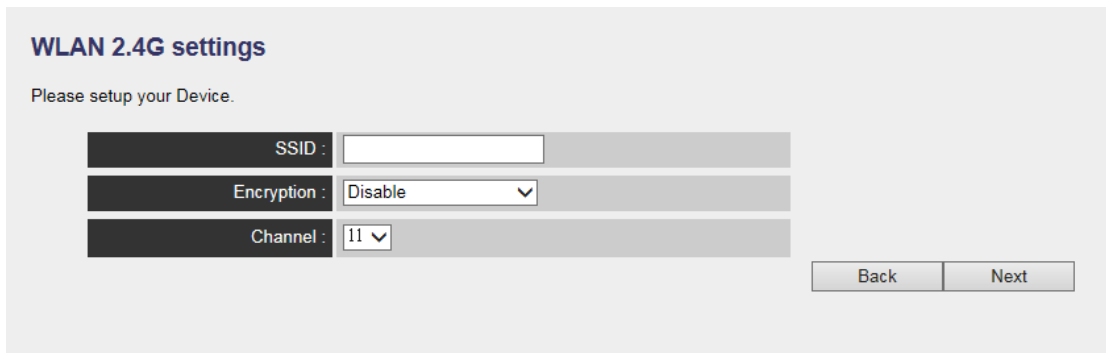
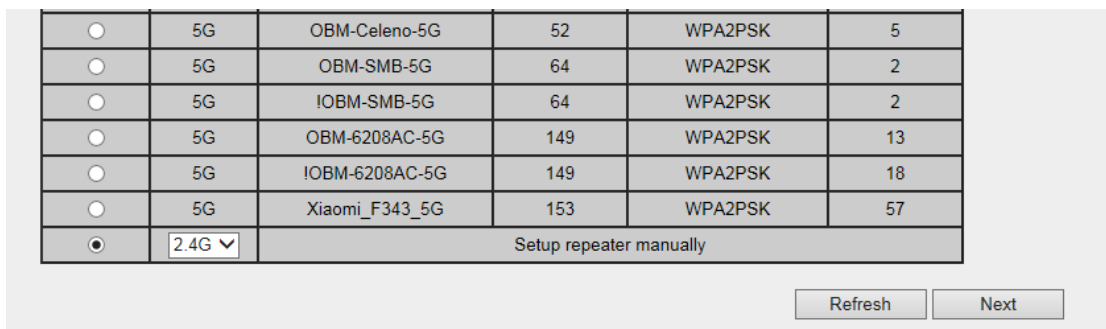
3. The Wireless Extender will prompt you to input the username and password. Default username is 'admin' and password is '1234'. Click the 'OK' button to continue.



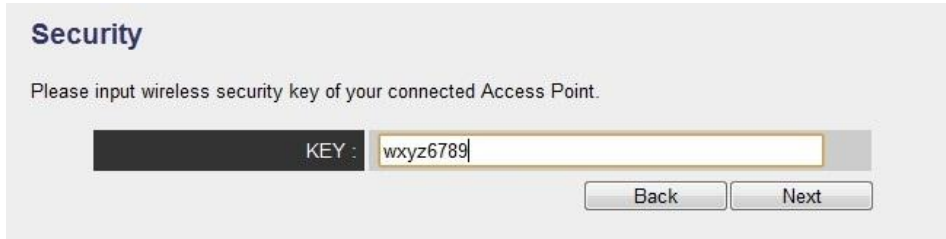
4. All wireless access points nearby will be displayed on the list. Select one access point you want to connect to and click the 'Next' button to continue. If the access point you wish to connect to does not appear here, click the 'Refresh' button until it appears on the list, or try to move the wireless extender closer to the access point you wish to connect to.



If you want to connect to a hidden access point, you can select "**Setup repeater manually**" to input the wireless setting manually.



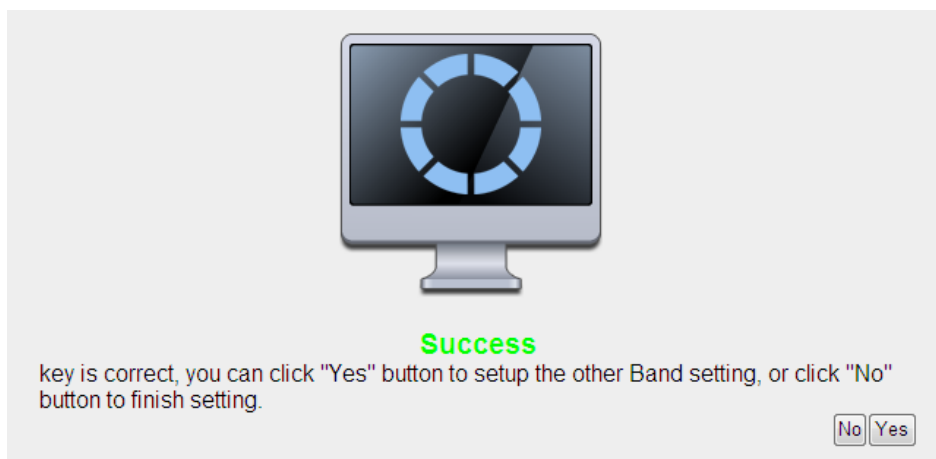
5. You'll be prompted to input the access point's wireless security key, input it in the 'KEY' field and click the 'Next' button to continue.



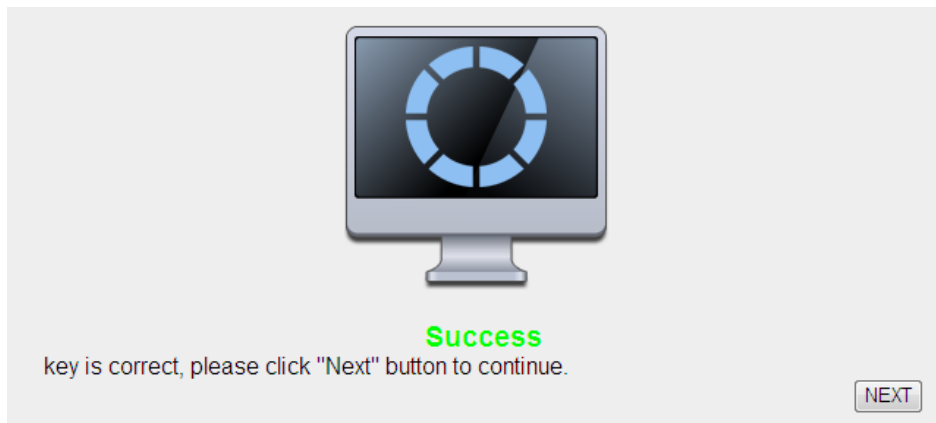
6. It will start to verify the wireless key with your associated access point and show you result within 20 seconds. Please follow the instructions to continue setup.



7. When the key is correct, this Range Extender will display the connection information for you.



8. When you have setup dual band successfully (or setup single band manually), you will see the page below, press the "Next" button to continue.



**Save settings successfully!**

Please press APPLY button to restart the system to make the changes take effect.

**2.4G Setting**  
Connected Access Point SSID : **Xiaomi\_F343**

Device SSID :

Security : **WPA pre-shared key**

**5G Setting**  
Device SSID :

Security : **WPA pre-shared key**

Bridge to 2.4G and 5G Wireless connection:Enabled

Add the URL to your bookmark(my favorite list): <http://repeater.setup>

(we recommend you to save it for quick access to the Web setting page next time)

(Supports IE and Firefox only. Please add the access key to the bookmark manually if you use other browsers)

If everything is correct, click the 'APPLY' button to get connected.

The 'Device SSID' will be the same as the access point's SSID you connected in this step.

We recommend you to copy your 'firmware URL' (for example: <http://repeater.setup>) to your bookmarks for quick login to the settings page next time.

**NOTE: If you use browsers other than IE and Firefox, you need to copy this firmware URL and add it to bookmark manually.**

9. Please wait a few moments for the wireless extender to restart.

**System Restarting! Please wait for a while !**

21%

A horizontal progress bar with a blue segment on the left and a grey segment on the right. The blue segment contains the text '21%'.

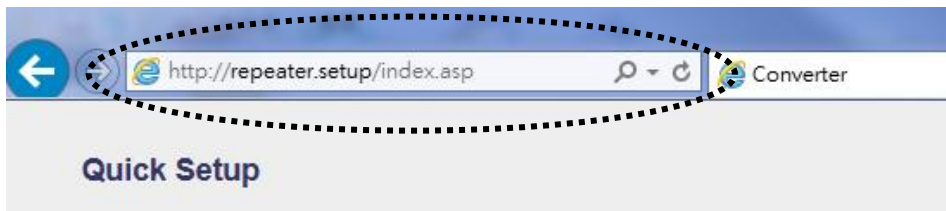
***NOTE: After the wireless connection of this extender and wireless broadband router is built, the extender is DHCP client and will get an IP address from the broadband router automatically. If you want to login to the web user interface of the extender, please refer to '2-2 Repeater mode Advanced Settings' for more functions or learn how to login to the web user interface again.***

## 2-2 Repeater mode Advanced Settings

### 2-2-1 Connect to web configuration menu

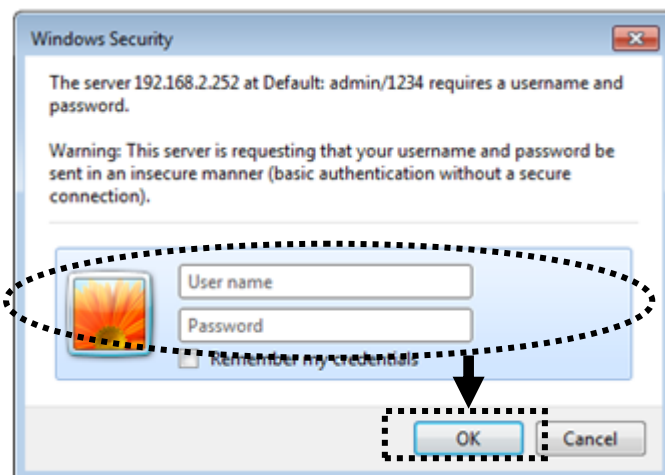
Open your web browser (IE, Firefox, Chrome etc.) and find the 'Wireless Repeaterxxx Web UI' firmware link on your bookmark list if you saved it when you installed this device for the first time.

10. Or you can directly input **repeater.setup** in the address bar, then press the ENTER key:



11. **NOTE: The default IP address of repeater mode is 192.168.2.252, you can also input repeater.setup if your PC is Windows OS based.**

The wireless extender will prompt you to input the username and password. The default username is 'admin' and password is '1234'. Click the 'OK' button to continue.





**COMTREN AC750 WiFi Extender**

- Home
- Quick Setup
- WPS Setting
- Advanced Settings**

### Status and Information

You can refer to following information to check the MAC address, runtime code, hardware version and its network configuration status of this device.

System	
Uptime	0day:0h:1m:23s
Hardware Version	Rev. A
Runtime Code Version	v1.00
Mode	Universal Repeater

Wireless 2.4G Configuration	
ESSID	ACSTest_2.4Gre
Channel Number	10
Security	WEP
BSSID(MAC)	74:da:38:07:92:e8
Associated Clients	0 <input type="button" value="Show Active Clients"/>
State	Connected

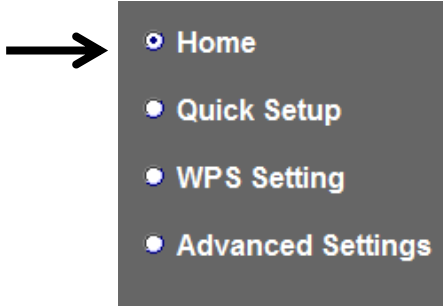
Wireless 5G Configuration	
ESSID	ACSTest_5Gre
Channel Number	36
Security	Disable
BSSID(MAC)	74:da:38:07:92:ea
Associated Clients	0 <input type="button" value="Show Active Clients"/>
State	Disconnection

LAN Configuration	
IP Address	10.10.10.128
Subnet Mask	255.255.255.0
Default Gateway	10.10.10.1
MAC Address	74:da:38:07:92:e8

Detailed operation instructions will be given below.

## 2-2-2 Home

The following information provides an overview of this wireless LAN extender. To access the 'Home' menu, click 'Home' on the left.



You should see a screen that looks like this (the contents will vary depending on your actual settings):

System	
Uptime	0day:0h:0m:52s
Hardware Version	Rev. A
Runtime Code Version	v1.00
Mode	Universal Repeater
Wireless 2.4G Configuration	
ESSID	ACSTest_2.4Gre
Channel Number	6
Security	WEP
BSSID(MAC)	74:da:38:07:92:e8
Associated Clients	0 <input type="button" value="Show Active Clients"/>
State	Connected
Wireless 5G Configuration	
ESSID	ACSTest_5Gre
Channel Number	36
Security	Disable
BSSID(MAC)	74:da:38:07:92:ea
Associated Clients	0 <input type="button" value="Show Active Clients"/>
State	Disconnection
LAN Configuration	
IP Address	10.10.10.132
Subnet Mask	255.255.255.0
Default Gateway	10.10.10.1
MAC Address	74:da:38:07:92:e8

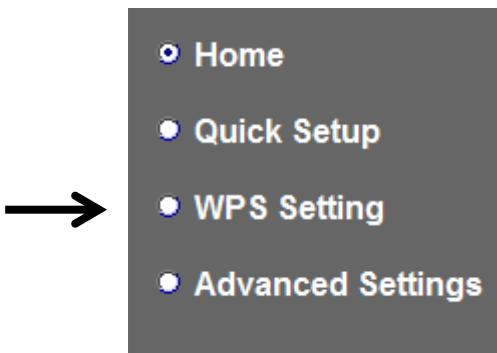
You can click the 'Show Active Clients' button to show all connected wireless clients.

***Please note: By clicking the 'Show Active Clients' button, a new browser window will appear. If your browser prevents the pop-up window from appearing, please disable this function or you will not be able to use the 'Show Client' function.***

### 2-2-3 WPS Setting

You can configure WPS (Wi-Fi Protected Setup) here. By using WPS, you can establish a secure connection between this wireless extender and other wireless devices which also support WPS in a fast and secure manner.

To access the 'WPS Setting' menu, click 'WPS Setting' on the left.



The following setup page will appear:

#### WPS(Wi-Fi Protected Setup) Settings

This page allows you to change the setting for WPS(Wi-Fi Protected Setup).WPS can help your wireless client automatically connect to the Access Point.

**Enable WPS**

**• 2.4G Wi-Fi Protected Setup Information**

WPS Status:	Configured
Self PinCode:	04963608
SSID:	ACSTest_2.4Gre
Authentication Mode:	WEP
Passphrase Key:	

**• Device Configure**

WPS Setting :	<input checked="" type="radio"/> Enable 2.4G WPS <input type="radio"/> Enable 5G WPS
(Device is as a AP/router) Config Mode:	Registrar <span style="font-size: small;">▼</span>
Configure via Push Button:	<input type="button" value="Start PBC"/>
Input client PIN code :	<input type="text"/> <input type="button" value="Start PIN"/>

The description of every setup item is listed as follows:

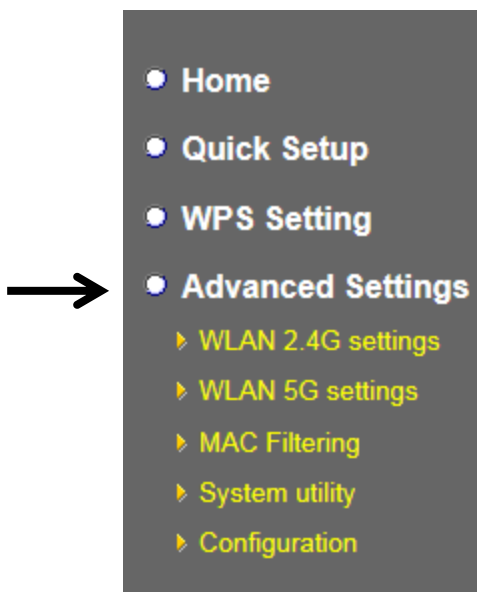
Item	Description
WPS Status	If the wireless security (encryption) function of this device is properly set, the WPS status will display 'Configured'. If the wireless security function has not been set, the WPS status will display 'unConfigured'.
Self PinCode	This displays an 8-digit number for WPS PIN-style configuration. When another WPS-compatible device wishes to connect to this wireless extender and supports Self-PIN type WPS, input this number to the wireless device to establish connection.
SSID	SSID stands for Service Set Identifier. All stations must be configured with the correct SSID to access the Wireless Network.
Authentication Mode	Shows the authentication mode of this wireless extender.
Passphrase Key	This shows asterisks (*) to indicate that the wireless security is properly set.
WPS Setting	You can select which band (2.4G or 5G) you want to build the wireless connection via 'Start PBC' button. Default is '2.4G'.
Config Mode	There are 'Registrar' and 'Enrollee' modes for the WPS connection. When 'Registrar' is enabled, the wireless clients will follow the extender's wireless settings for WPS connection. When 'Enrollee' mode is enabled, the extender will follow the wireless settings of the wireless router for WPS connection.
Start PBC	Click the 'Start PBC' button to start the Push-Button style WPS setup procedure. This wireless extender will wait for WPS requests from another wireless device for 2 minutes. The 'WPS' LED on the wireless extender will be blinking for 2 minutes when this wireless extender is waiting for an incoming WPS request.
Start PIN	Input the PIN code of the wireless client you wish to connect to, and the click 'Start PIN' button. The 'WPS' LED on the wireless extender will be blinking when this wireless extender is waiting for an incoming WPS request.

***NOTE: For WPS2.0 compliance specification, WEP and WPA-PSK can't support WPS connection; some of your wireless devices may follow this latest WPS2.0 specification, so we recommend not using WEP and WPA-PSK to avoid WPS interoperability problems.***

## **2-2-4 Advanced Settings**

You can configure advanced wireless settings in this page. Please note that these settings are not safe to be configured by novice users. Configure these settings only when you understand what you're doing.

To access the 'Advanced Settings' menu, click 'Advanced Settings' on the left.



The following setup page will appear:

### Advanced Settings

These settings are only for more technical users who have a sufficient knowledge about wireless LAN. These settings should not be changed unless you know what effect the changes will have on your repeater device.

Fragment Threshold:	<input type="text" value="2346"/>	(256-2346)
RTS Threshold:	<input type="text" value="2347"/>	(0-2347)
Beacon Interval:	<input type="text" value="100"/>	(20-1024 ms)
DTIM Period:	<input type="text" value="3"/>	(1-10)
Preamble Type:	<input checked="" type="radio"/> Short Preamble <input type="radio"/> Long Preamble	
Broadcast ESSID:	<input checked="" type="radio"/> Enable <input type="radio"/> Disable	
CTS Protect:	<input checked="" type="radio"/> Auto <input type="radio"/> Always <input type="radio"/> None	
TX Power:	<input type="text" value="100 %"/>	

- Enable LED OFF mode
- Turn off all LED
  - Turn off all LED except POWER LED

The description of every setup item is listed as follows:

Item	Description
Fragment Threshold	The threshold (number of bytes) of the fragmentation boundary for directed messages. It is the maximum data fragment size that can be sent. Input a value between 256 and 2346. Do not modify the default value if you don't know what it is. The default value is 2346.
RTS Threshold	The RTS (Request To Send) threshold parameter controls what size data packet (number of bytes) the low level RF protocol issues to an RTS packet. The default is 2347. Do not modify the default value if you don't know what it is. The default value is 2347.
Beacon Interval	The Beacon Interval value indicates the frequency interval of the beacon. Enter a value between 20 and 1000. A beacon is a packet broadcast by the Router to

	synchronize the wireless network. The default value is 100. Do not modify the default value if you don't know what it is. The default value is 100.
DTIM Period	Configures DTIM (Delivery Traffic Indication Message) send period. The default value is 3.
Preamble Type	The Preamble type defines the length of the CRC (Cyclic Redundancy Check) block for communication between the Access Point and roaming wireless adapters. Do not modify the default value if you don't know what it is. The default setting is 'Short Preamble'.
Broadcast ESSID	When set to 'enabled', every wireless device can scan and find this Wireless-N Range Extender; when set to 'disabled', only wireless clients who know the exact SSID can get connected with this Wireless-N Range Extender. Setting to disabled will help to improve security.
CTS Protect	This function provides CTS (Clear to Send) protection when transferring data. Selecting 'Auto' for this option is recommended.
TX Power	Select the wireless transmitting power level, from 10% to 100%. When wireless clients are not too far from this Wireless-N Range Extender, you don't have to select a higher power level, since this may cause some individuals to attempt to break into your wireless network if you have a bad password, or no password.
Enable LED off mode	You can enable or disable LED lights. Check ' <b>Enable LED OFF</b> ' mode to setup LED behavior: Turn off all LED: disables all LED lights. Turn off all LED except POWER LED: all LED lights will be disabled, except the 'POWER' LED.

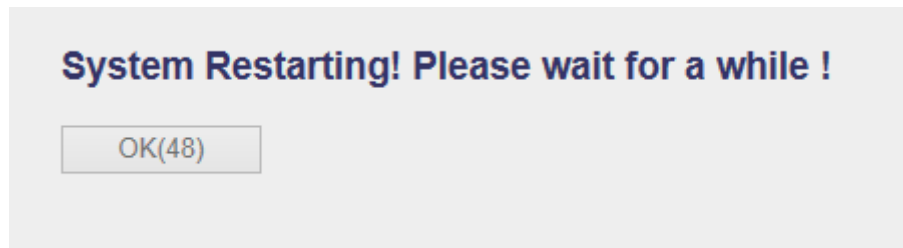
When you finish the settings in this page, click the 'Apply' button. You'll see the following message:

**Save settings successfully!**

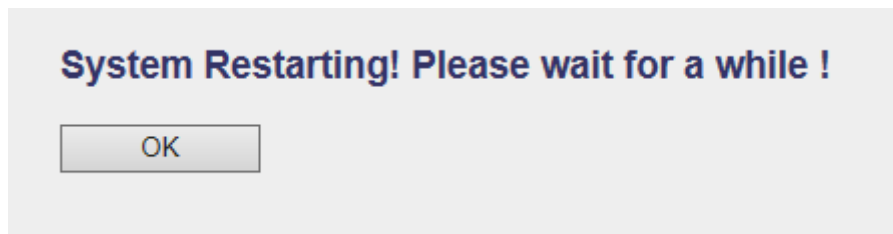
You may press CONTINUE button to continue configuring other settings or press APPLY button to restart the system to make the changes take effect.



If you still need to configure this wireless extender, click the 'CONTINUE' button; if you want to save the changes and use it now, click the 'APPLY' button.



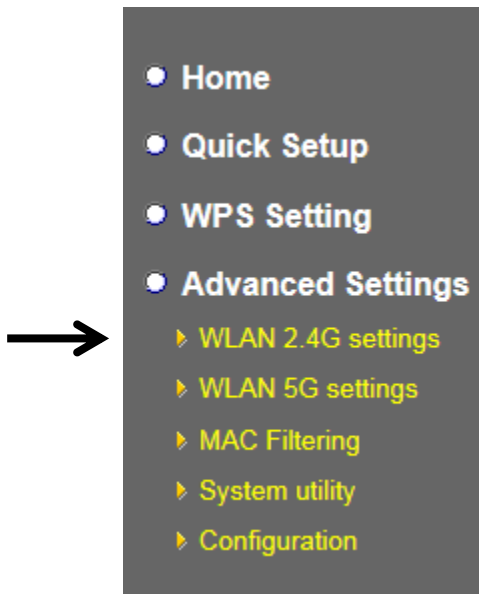
You'll be prompted to wait for 50 seconds before you can reconnect to this wireless extender.



After the countdown click the 'OK!' button.

### **2-2-5 WLAN 2.4G settings**

To access the 2.4GHz Wireless menu, click 'WLAN 2.4G settings' on the left.



The following setup page will appear:

**WLAN 2.4G settings**

Please setup your Device.

Device SSID :	ACSTest_2.4Gre
Encryption :	WPA pre-shared key
WPA Unicast Cipher Suite :	<input checked="" type="radio"/> WPA(TKIP) <input type="radio"/> WPA2(AES)
Pre-shared Key Format :	Passphrase
KEY :	
Channel :	6

***Please Note: If your extender is working properly, it is not recommended to make changes here.***

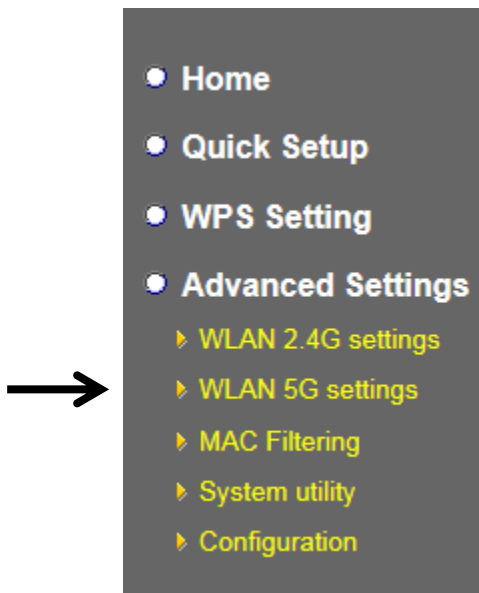
The description of every setup item is listed as follows:

Item	Description
Device SSID	This is the current SSID name of the extender. The SSID is used to identify your own extender from others when there are other wireless devices in the same area. You can type any alphanumerical characters to change the SSID here, maximum 32 characters.
Encryption	This is the current security setup of the extender. You can select an encryption method from the drop-down menu, there are three options.
WPA Unicast Cipher	This is the current security setup of the extender. Please

Suite	select a type of WPA cipher suite. Available options are: WPA (TKIP) and WPA2 (AES). You can select one of them, but you have to make sure your wireless client supports the cipher you selected.
Pre-shared Key Format	This is the current security setup of the extender. You can select the type of pre-shared key, you can select the <b>Passphrase</b> (8 or more alphanumerical characters, up to 63), or <b>Hex</b> (64 characters of 0-9, and a-f).
Key	This is the current security setup of the extender. You can change the WPA passphrase here. It's not recommended to use a word that can be found in a dictionary due to security reasons.
Channel	This is the current channel of the extender.

### 2-2-6 WLAN 5G settings

To access 5GHz Wireless menu, click 'WLAN 2.4G settings' on the left.



The following setup page will appear:

**WLAN 5G settings**

Please setup your Device.

Device SSID :	ACSTest_5Gre
Encryption :	WPA pre-shared key
WPA Unicast Cipher Suite :	<input checked="" type="radio"/> WPA(TKIP) <input type="radio"/> WPA2(AES)
Pre-shared Key Format :	Passphrase
KEY :	
Channel :	36

***Please Note: If your extender is working properly, it is not recommended to make changes here.***

The description of every setup item is listed as follows:

Item	Description
Device SSID	This is the current SSID name of the extender. The SSID is used to identify your own extender from others when there are other wireless devices in the same area. You can type any alphanumerical characters to change the SSID here, maximum 32 characters.
Encryption	This is the current security setup of the extender. You can select an encryption method from the drop-down menu, there are three options.
WPA Unicast Cipher Suite	This is the current security setup of the extender. Please select a type of WPA cipher suite. Available options are: WPA (TKIP) and WPA2 (AES). You can select one of them, but you have to make sure your wireless client supports the cipher you selected.
Pre-shared Key Format	This is the current security setup of the extender. You can select the type of pre-shared key, you can select the <b>Passphrase</b> (8 or more alphanumerical characters, up to 63), or <b>Hex</b> (64 characters of 0-9, and a-f).
Key	This is the current security setup of the extender. You can change the WPA passphrase here. It's not recommended to use a word that can be found in a dictionary due to security reasons.

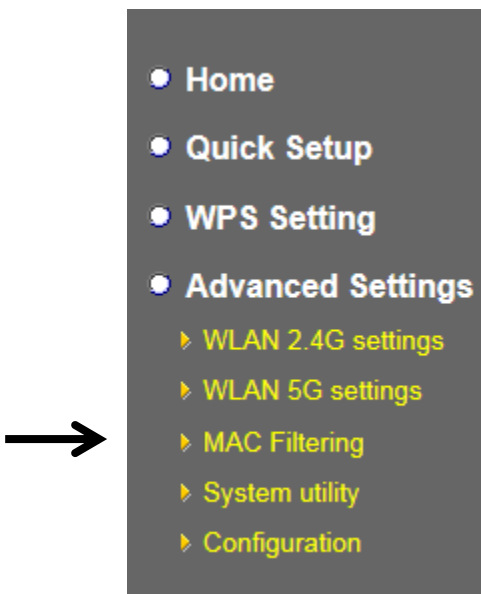
Channel	This is the current channel of the extender.
---------	--

## 2-2-7 MAC Address Filtering

Besides using wireless security to only allow permitted wireless users to use this wireless extender, you can also use MAC address filter to allow wireless users with certain MAC addresses to use this wireless extender.

This will enhance security because you can make a 'white list' to allow users on the list to use this wireless extender. Clients who aren't listed on this white list, can't get connected, even if they know the password.

To access the 'MAC Filtering' menu, click 'MAC Filtering' on the left.



The following setup page will appear:

## MAC Address Filtering

For security reason, the device support MAC Address Filtering allows authorized MAC Addresses associating to the device.

- **MAC Address Filtering Table**

It allows to entry 20 sets address only.

NO.	MAC Address	Comment	Select
1	11:22:33:44:55:66	Allowed client	<input type="checkbox"/>

Enable Wireless Access Control

New	MAC Address:	Comment:	<input type="button" value="Add"/>
	<input type="text"/>	<input type="text"/>	<input type="button" value="Clear"/>

The description of every setup item is listed as follows:

Item	Description
Enable Wireless Access Control	Check this box to enable MAC filtering. If you don't check this box, anyone who knows the wireless password can get connected to this wireless extender.
MAC Address	Input the MAC address of the clients you wish to deny or provide access to the extender into the MAC address list. Input 12 HEX characters here, you don't have to add : (colon) or - (dash) characters every 2 characters. <i>If you don't know how to get the MAC address of a network client, see the following page.</i>
Comment	Input any descriptive text about this rule, so you can remember the purpose of this rule. You can input up to 20 alphanumerical characters in this field.
Add	Add this MAC address to the list.
Clear	Clear 'MAC Address' and 'Comment' field.
Delete Selected	Delete MAC address(es) you selected.
Delete All	Delete all MAC addresses on the list. You'll be prompted

	to confirm the deletion first.
Reset	Uncheck all checked boxes.
Select	All existing MAC addresses will be listed here. To delete a MAC address from the list, check the box of the MAC address you wish to delete first. You can select more than one MAC address here.

When you complete the settings in this page, click the 'Apply' button. You'll see the following message:

**Save settings successfully!**

You may press CONTINUE button to continue configuring other settings or press APPLY button to restart the system to make the changes take effect.

If you still need to configure this wireless extender, click the 'CONTINUE' button; if you want to save the changes and use it now, click the 'APPLY' button. You'll be prompted to wait for 50 seconds before you can reconnect to this wireless extender.

## **2-2-8 How to find the MAC address of your device**

If you don't know the MAC address of your computer or wireless device, you can follow the procedure below:

For wireless devices and computers which are connected to this wireless extender already, you can click the 'Show Active Clients' button on the 'Home' setting page.

Wireless 2.4G Configuration	
ESSID	ACSTest_2.4Gre
Channel Number	6
Security	WEP
BSSID(MAC)	74:da:38:07:92:e8
Associated Clients	0 <input type="button" value="Show Active Clients"/>
State	Connected

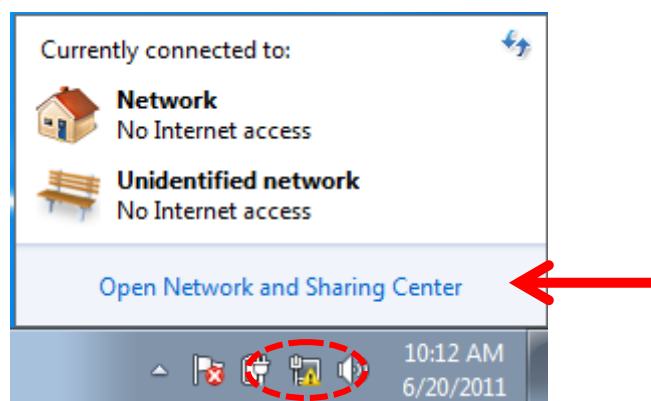
  

Wireless 5G Configuration	
ESSID	ACSTest_5Gre
Channel Number	36
Security	Disable
BSSID(MAC)	74:da:38:07:92:ea
Associated Clients	0 <input type="button" value="Show Active Clients"/>
State	Disconnection

Their MAC address will be displayed in the 'MAC Address' field.

If you still can't identify the MAC address of your computer, you can follow this procedure:


Click the network icon located at the lower-right corner, then click 'Open Network and Sharing Center'.



Click the connection that will be used to connect the wireless extender (in this example, 'Local Area Connection'):



View your basic network information and set up connections

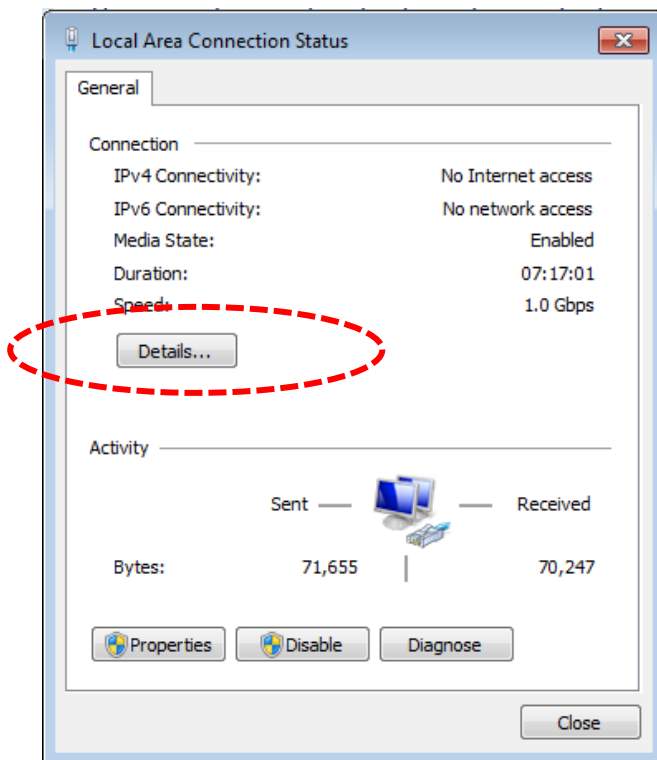


ALBERT-VMPC (This computer) — Multiple networks — Internet

View your active networks [Connect or disconnect](#)

Network	Access type	HomeGroup	Connections
<b>Network</b> Home network	No Internet access	Joined	Local Area Connection
<b>Unidentified network</b> Public network	No Internet access		Local Area Connection 2

Click the 'Details...' button.



Local Area Connection Status

General

Connection

IPv4 Connectivity:	No Internet access
IPv6 Connectivity:	No network access
Media State:	Enabled
Duration:	07:17:01
Speed:	1.0 Gbps

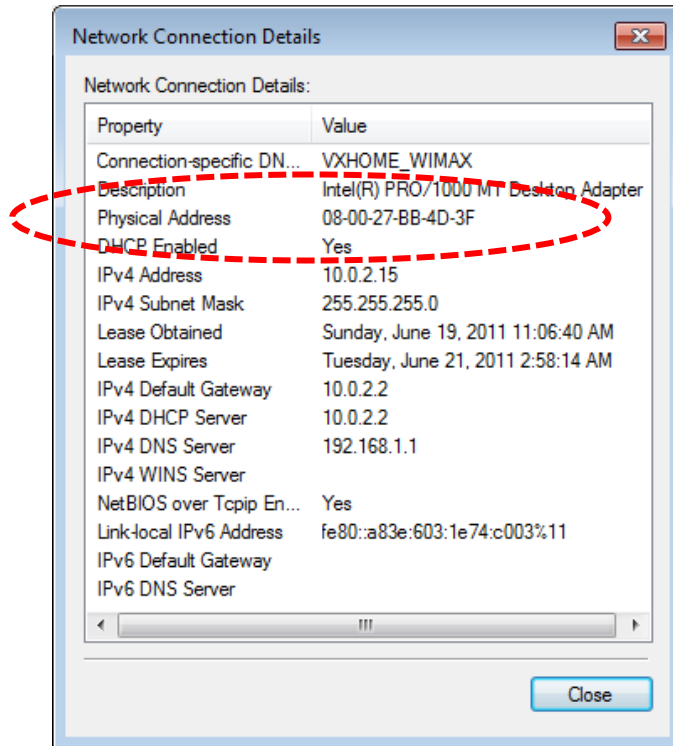
**Details...**

Activity

Sent		Received	
Bytes:	71,655	Bytes:	70,247

Properties Disable Diagnose Close

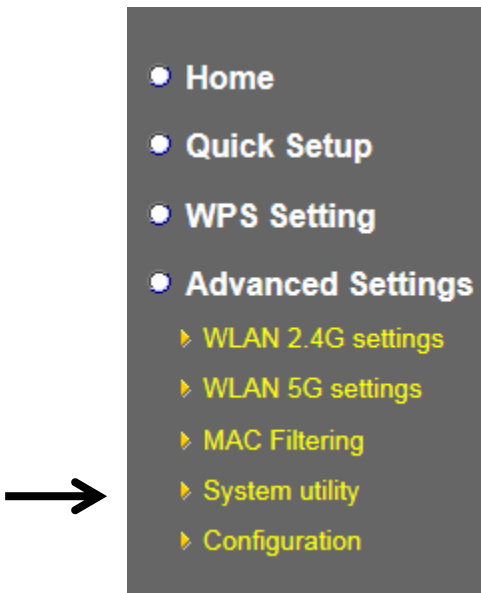
The MAC address of the selected network connection will be displayed here as 'Physical Address'.



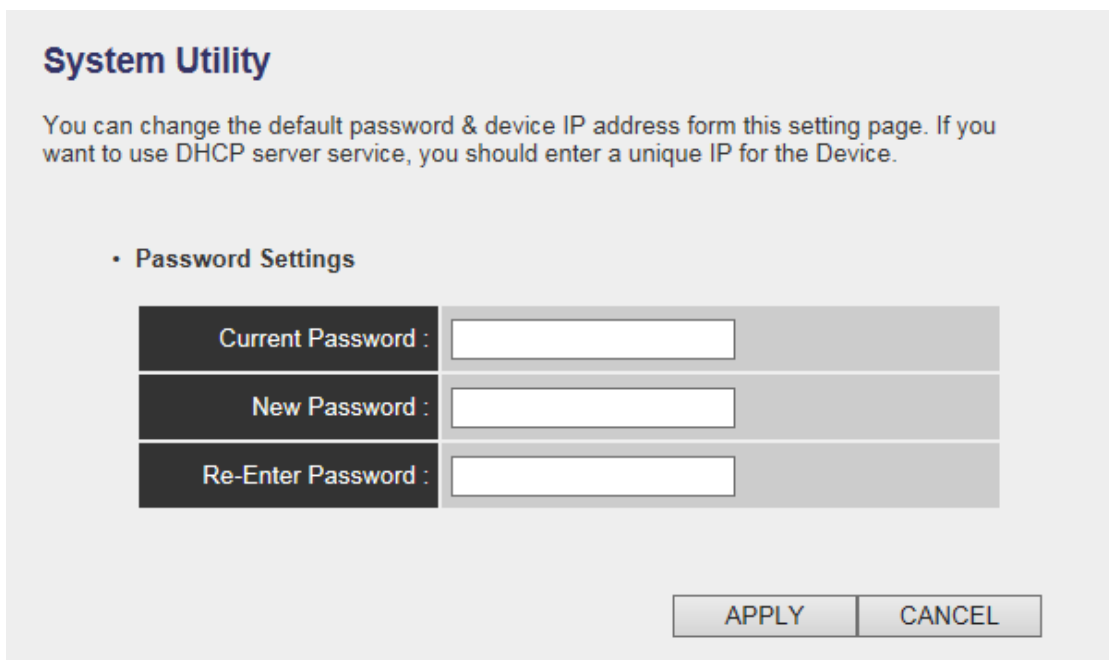
## 2-2-9 System Utility

You can change the settings of several system-level parameters in this page, including the administrator's password, and the IP address.

To access the 'System Utility' menu, click 'System Utility' on the left.



The following setup page will appear:

A screenshot of the 'System Utility' configuration page. The title 'System Utility' is at the top. Below it is a paragraph: 'You can change the default password & device IP address from this setting page. If you want to use DHCP server service, you should enter a unique IP for the Device.' Underneath is a section titled '• Password Settings'. This section contains three rows of input fields: 'Current Password :', 'New Password :', and 'Re-Enter Password :'. At the bottom right of the page are two buttons: 'APPLY' and 'CANCEL'.

The description of every setup item is listed as follows:

**Password Settings**

The default password of this extender is 1234, and it’s displayed on the login prompt when accessed from the web browser. There’s a security risk if you don’t change the default password, since everyone can see it. This is very important when you have the wireless function enabled.

Here are descriptions of every setup item:

Item	Description
Current Password	To change the password, you have to input the current password first.
New Password	Input the new password here. You can use the combination of letters, numbers, and symbols up to 20 characters.
Re-Enter Password	Input the new password again for conformation.

When you complete the settings in this page, click the 'Apply' button. You'll see the following message:

**Save settings successfully!**

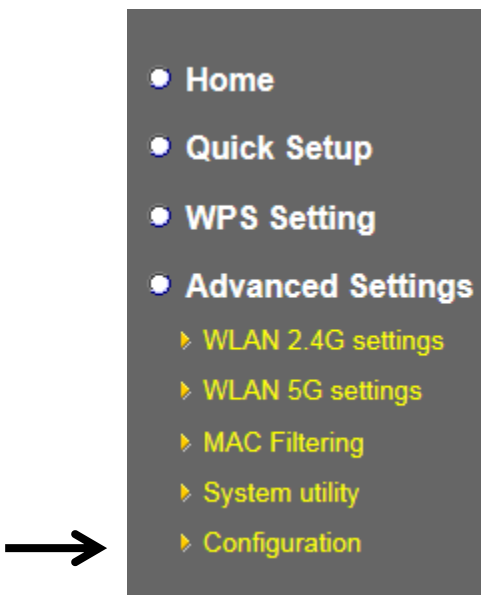
You may press **CONTINUE** button to continue configuring other settings or press **APPLY** button to restart the system to make the changes take effect.

If you still need to configure this wireless extender, click the 'CONTINUE' button; if you want to save the changes and use it now, click the 'APPLY' button. You'll be prompted to wait for 50 seconds before you can reconnect to this wireless extender.

## 2-2-10 Configuration

You can backup and restore the configuration of this wireless extender, so you can recall all settings, without the need to reconfigure again. This function is especially useful when you need to use this mini Wi-Fi extender in different places, like your home and hotels.

To access the 'Configuration' menu, click 'Configuration' on the left.



### 2-2-10-1 Configuration Tool

The following setup page will appear:

### Configuration Tool

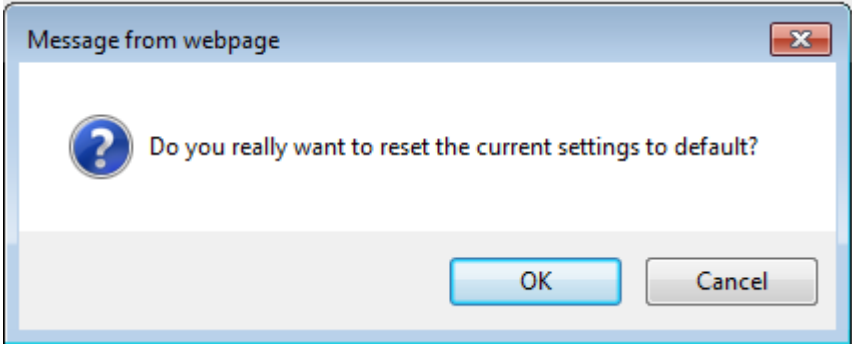
Use the "Backup" tool to save the device's current configurations to a file named "config.bin". You can then use the "Restore" tool to restore the saved configuration to the device. Alternatively, you can use the "Restore to Factory Default" tool to force the device to perform System Reset and restore the original factory settings.

Backup Settings :

Restore Settings :  No file selected.

Restore to Factory Default :

The description of every setup item is listed as follows:

Item	Description
Backup Settings	Click the 'Save' button to save the current settings to a file on your computer.
Restore Settings	If you want to upload a saved configuration file to the wireless extender, click the 'Browse' button to select a saved configuration file on your computer. Then click the 'Upload' button to replace the current settings.
Reset to Factory Default	<p>To reset all settings of this wireless extender to factory defaults, including the password. You'll be prompted to confirm the settings reset:</p>  <p>Click 'OK' if you really want to restore all settings, or click 'Cancel' to abort.</p>

## 2-2-10-2 WEB Upgrade

The software running on this wireless extender (i.e. 'Firmware' ) can be upgraded to improve the functionality of this wireless extender.

You can access our website to look for the latest firmware file. Then download the latest firmware file and save on your computer and upload to this wireless extender.

**WEB Upgrade**

This page allows you to upgrade system firmware. It is recommended that upgrading the firmware from wired stations. Enter the path and name of the upgrade file and then click the APPLY button below. You will be prompted to confirm the upgrade.

No file selected.

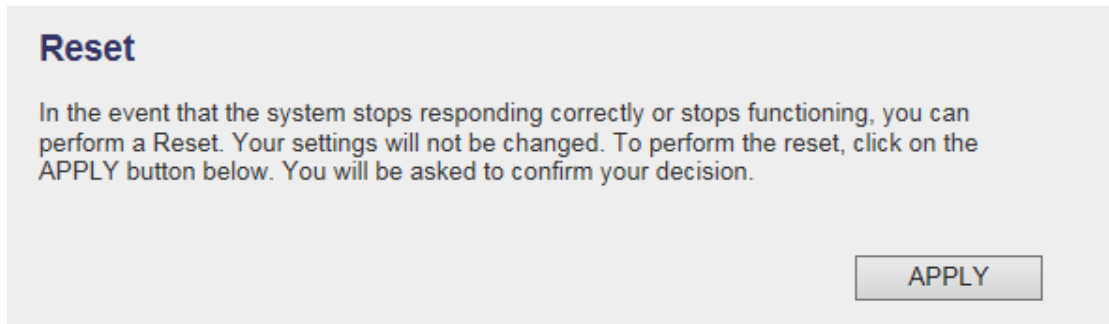
The description of every setup item is listed as follows:

Item	Description
Browse	Select a firmware file saved on your computer.

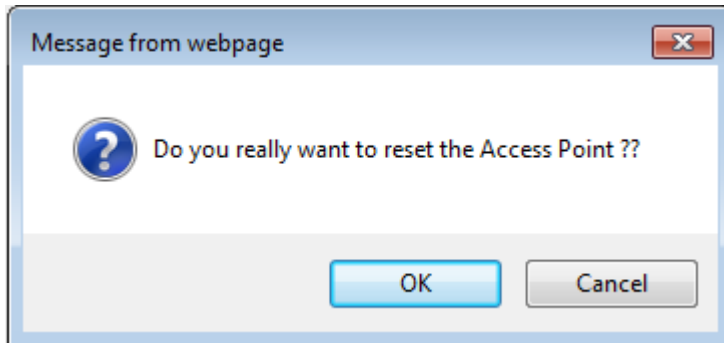
When you are ready, click the 'Apply' button to start the firmware upgrade procedure.

### 2-2-10-3 Reset

In the event that the system stops responding correctly or stops functioning, you can perform a standard Reset or Reset to Defaults. A standard Reset will retain your settings and reboot the extender, while resetting the device to defaults will erase all configuration settings.



To reset this wireless extender, click the 'Apply' button. You'll be prompted to confirm the reset:



Click the 'OK' button to reset the wireless extender, or click 'Cancel' to abort.



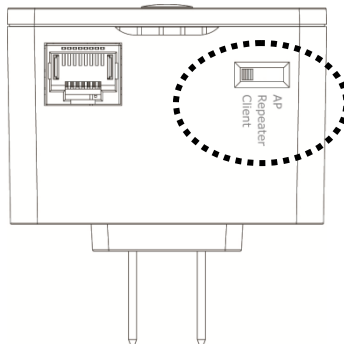
## CHAPTER 3 Client Mode

Client mode allows your networking device to have wireless capability; it will become your networking device's wireless network adapter. You can connect this device to the Ethernet port of your existing Internet TV or DVD player or game console device with an Ethernet cable.

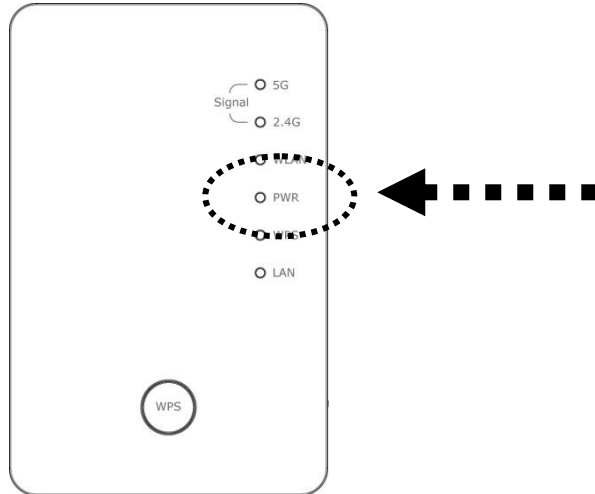
This chapter will explain how to quickly install this device by using the quick setup method and explain the detailed settings on the web user interface page of client mode.

### 3-1 Client Mode Quick Installation Guide

Switch mode selector to '**Client**'.

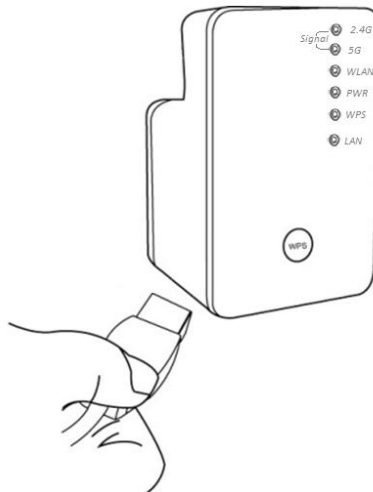


Plug this device into a power outlet on the wall. You should see the '**Power**' LED light up in few seconds. If not, check if the power outlet you're using is working.



Connect your wired networking device (wired PC, or Internet TV, or game console..etc.) and this wireless LAN extender by Ethernet cable.

***NOTE: You must set your networking device as DHCP client (obtain an IP address automatically from the DHCP server)***



You can setup a wireless connection via the 'Hardware WPS button' or 'Software web browser'.

If your broadband router or access point also supports a 'WPS button', we recommend you to use the WPS button to establish connection.

**Using WPS button**

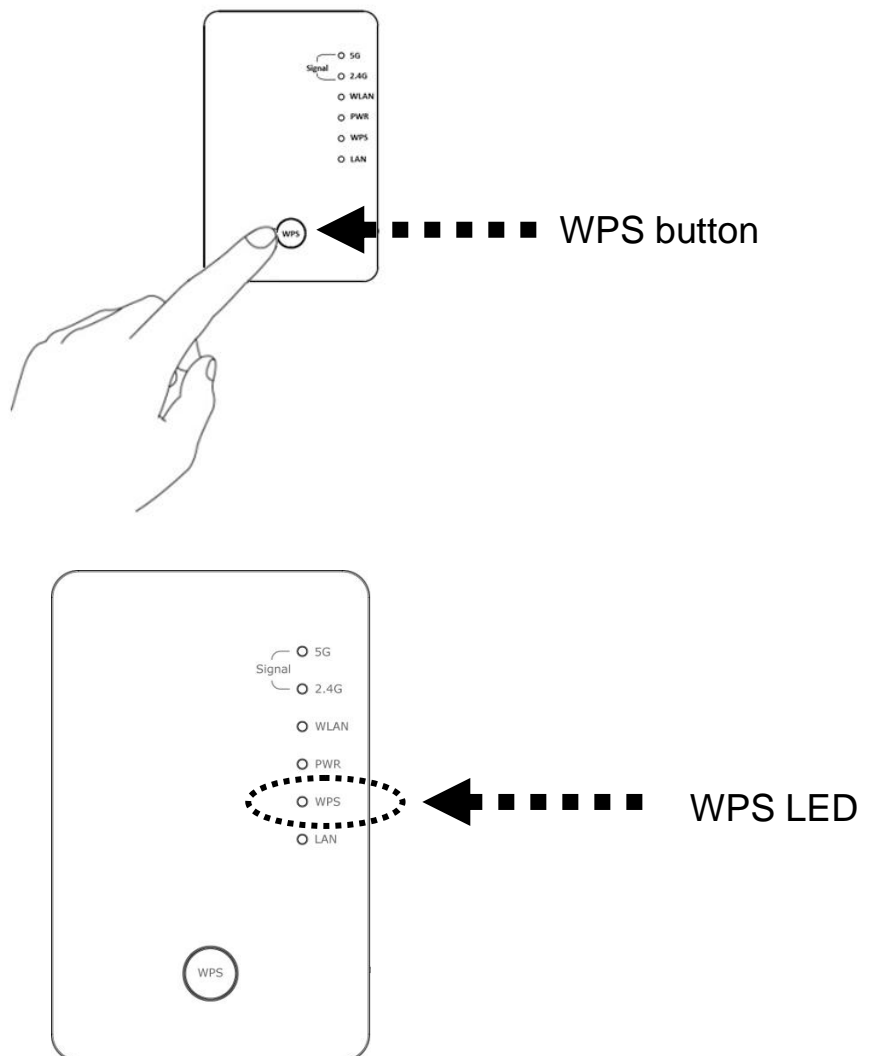
**- please go to section 3-1-1**

**Using Web browser**

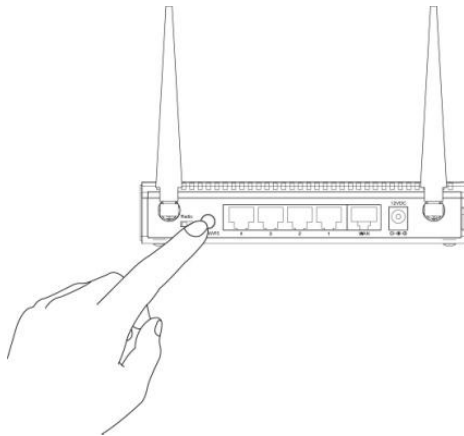
**- please go to section 3-1-2**

**3-1-1 Hardware WPS button setup**

1. Press and hold the **WPS button** on the extender for 2 seconds, the **WPS** LED will start flashing.



2. Press the WPS button on the wireless broadband router or access point you wish to connect to within 2 minutes.

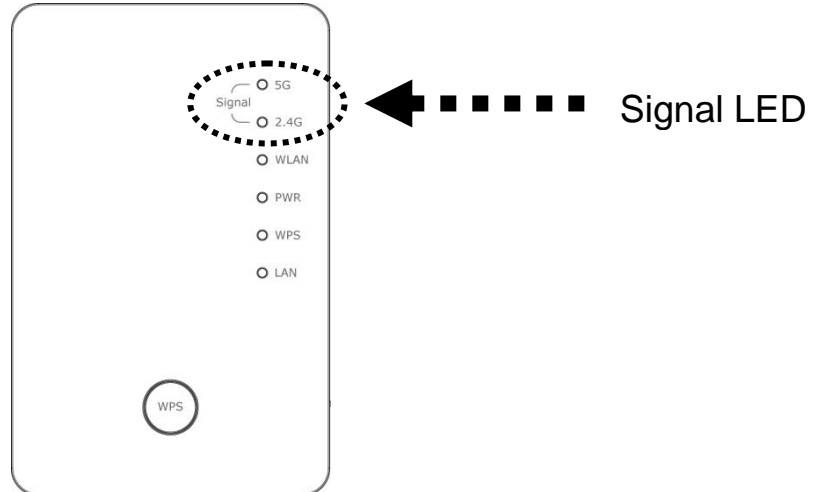


***NOTE: the WPS button position on this access point is for reference, different devices may have different WPS button positions or locations.***

***TIP: If the access point you wish to connect does not have a hardware WPS button, you can also use its web configuration menu's WPS function to establish connection. Or you can login this extender's web user to perform quick setup (detailed setup refers to '3-1-2 Web browser to perform quick setup)***

3. If WPS connection is successfully established, the extender will reboot immediately to make your settings take effect ; if the 'WPS' LED flashes fast, a problem has occurred, please wait for 2 minutes until the 'WPS' LED is off, and start from step(1) again.

When quick installation is successful the '**Signal**' LED will turn on.



4. Please move the extender to the place you wish to use it (the ideal place will be the center of your house) and plug this extender into a power outlet on the wall, the wireless connection will be established automatically. You can check the '**Signal**' LED status to understand the signal reception level.

Steady light: Excellent, Flashing: Good, Fast flash: poor.

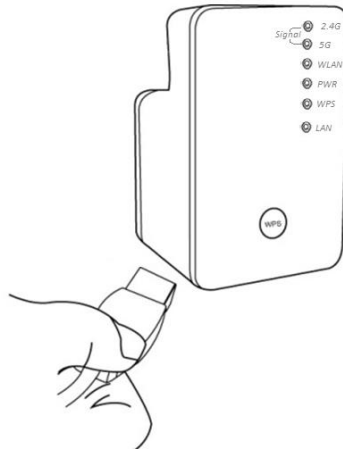
If the Signal LED is off, it means this place is out of wireless range of your wireless broadband router or access point. Please move this extender closer to your broadband router until the extender device can receive a signal from the broadband router.

The quick installation setup is complete, you can refer to '3-2 Repeater mode Advanced Settings' to login to the web user interface for other advanced settings.

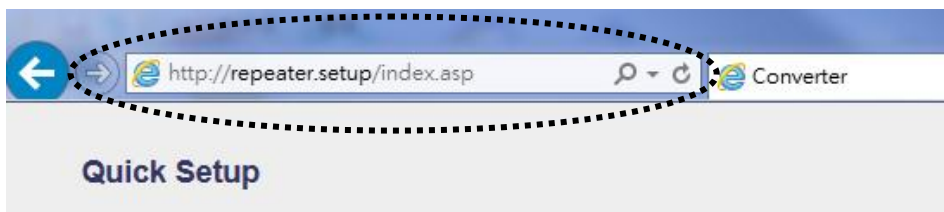
### 3-1-2 Web browser quick setup

Before you can connect to the extender and start configuration procedures, your computer must be able to get an IP address automatically (use dynamic IP address). If it's set to use static IP address, or you're unsure, please refer to '[Chapter 5: 5-1 Configuring TCP/IP on PC](#)' to set your computer to use dynamic IP address.

1. Use an Ethernet cable to connect your computer's Ethernet port and this wireless extender's Ethernet port.

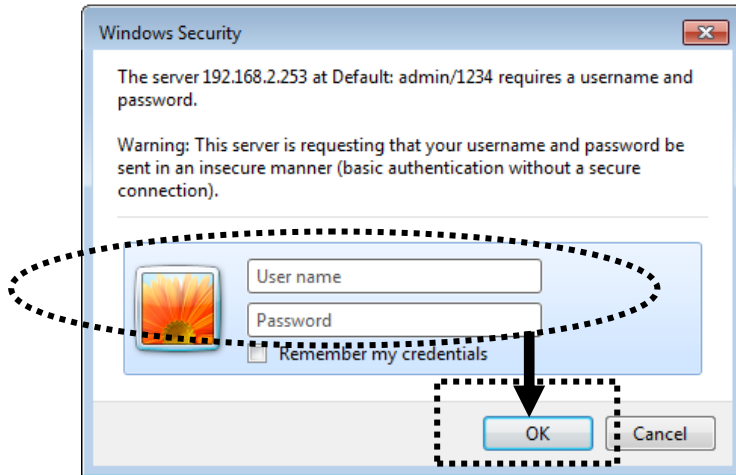


2. Open your web browser, it will redirect to the web user interface setting page. (or you can input the default IP address **repeater.setup** in the address bar)

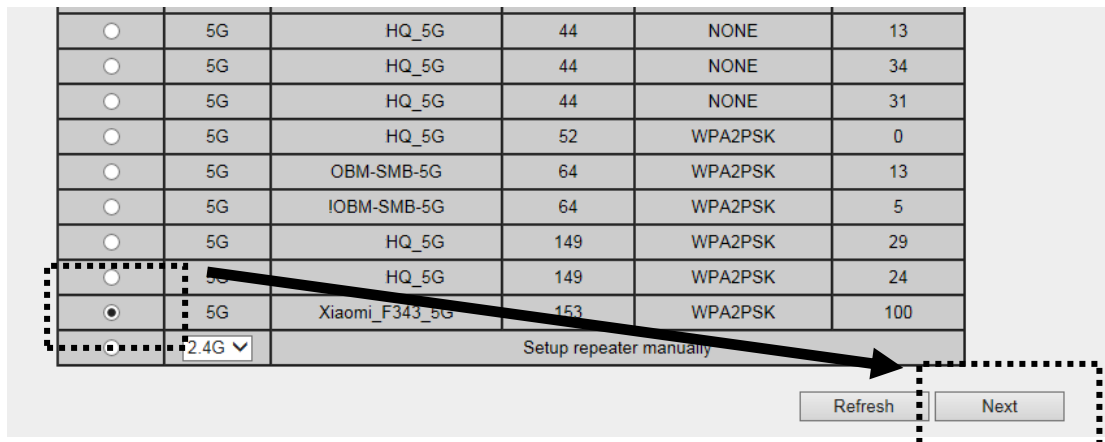


**NOTE: You can also input the default IP '<http://192.168.2.253> or [repeater.setup](http://repeater.setup) if your PC is Windows OS based.**

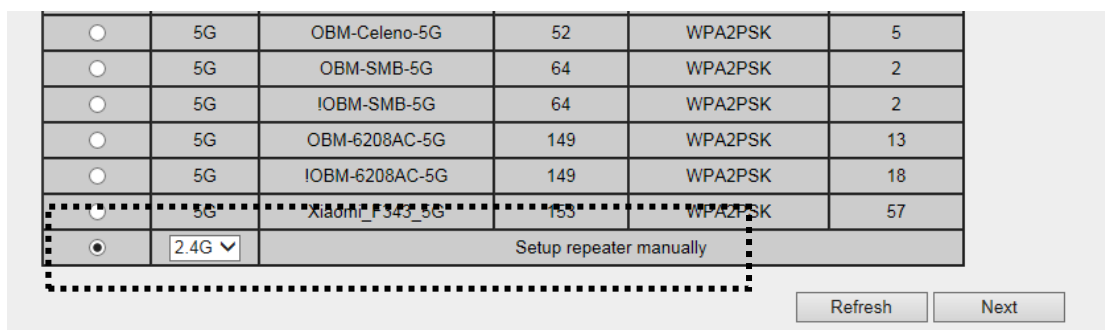
3. The wireless extender will prompt you to input the username and password. The default username is 'admin' and password is '1234'. Click the 'OK' button to continue.



4. All wireless access points nearby will be displayed on the list. Select one access point you want to connect to and click the 'Next' button to continue. If the access point you wish to connect to does not appear here, click 'Refresh' until it appears on the list, or try to move this wireless extender closer to the access point you wish to connect to.



Or if you want to connect to a hidden access point, please select to input the SSID manually.



**WLAN 2.4G settings**

Please setup your Device.

SSID :	<input type="text"/>
Encryption :	Disable <input type="button" value="v"/>
Channel :	11 <input type="button" value="v"/>

5. You'll be prompted to input the access point's wireless security key, input it in the 'KEY' field and click 'Next' to continue.

**Security**

Please input wireless security key of your connected Access Point.

KEY :	<input type="password"/>
-------	--------------------------

6. It will start to verify the wireless key with your associated access point and show you result within 20 seconds. Please follow the instructions to continue setup.



7. When the key is correct, the Wireless extender will display the connection information for you.



**Save settings successfully!**

You may press CONTINUE button to continue configuring other settings or press APPLY button to restart the system to make the changes take effect.

Device SSID(5GHz) : **Xiaomi\_F343\_5G**

Security : **WPA2-shared key**

The 'Device SSID' is the SSID of your access point that you selected to connect to in the previous step, please double confirm all the information is correct, if you want to change it, you can press 'Back' to select again or press 'APPLY' to make the changes effective.

We recommend you to copy your 'firmware URL' (for example: *'http://repeater.setup'*) to you bookmark for quick login to the settings page next time.

8. Please wait for few seconds for the wireless extender to reboot.

**System Restarting! Please wait for a while !****System Restarting! Please wait for a while !**

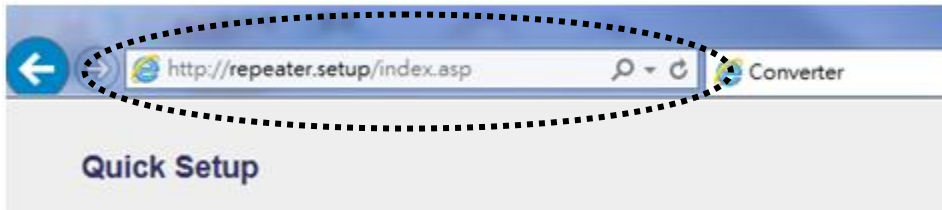
9. After reboot is complete, you can connect to the access point and use it to access the network / Internet.

***NOTE: After the wireless connection of this extender and wireless broadband router is built, this device becomes DHCP client and will get an IP address from your broadband router automatically. If you want to login to the web user interface of this extender again, please refer to '3-2 Client mode Advanced Settings' for more setup functions or learn how to login to the web user interface again.***

## 3-2 Client mode Advanced Settings

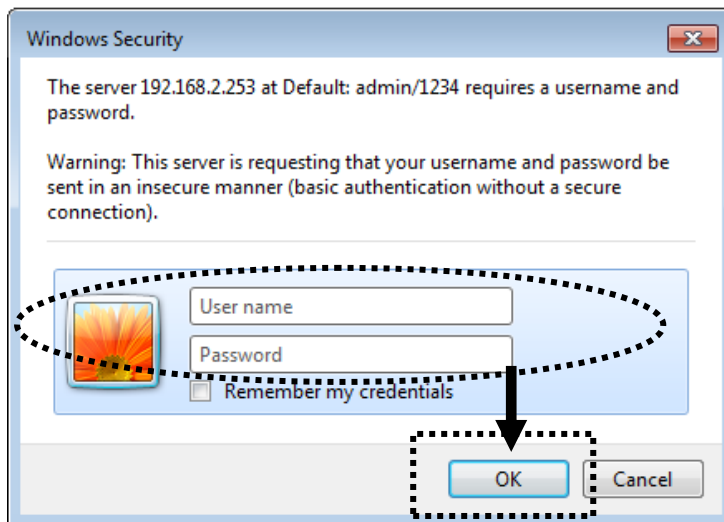
### 3-2-1 Connect to web configuration menu

Please open your web browser (IE, Firefox, Chrome etc.) and directly input '**http://repeater.setup**' in the address bar then press the ENTER key:



**NOTE: The default IP address of client mode is IP 'http://192.168.2.253, you can also input repeater.setup if your PC is Windows OS based.**

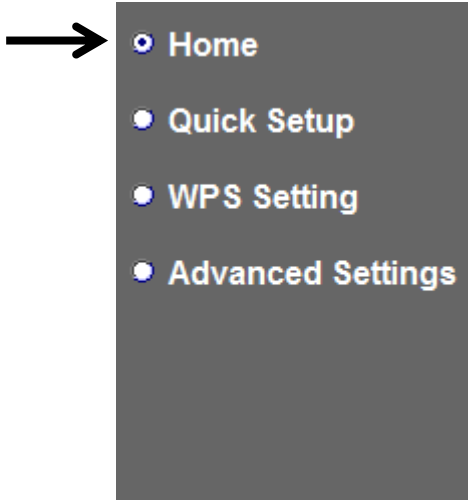
The wireless extender will prompt you to input the username and password. The default username is '**admin**' and password is '**1234**'. Click the 'OK' button to continue.



Detailed operation instructions will be given below.

### 3-2-2 Home

The status and information of client mode will be displayed here. To access the 'Home' menu, click 'Home' on the left.



You will see the following (the contents will vary depending on your actual setting):

**COMTREND AC750 WiFi Extender**

- Home
- Quick Setup
- WPS Setting
- Advanced Settings

### Status and Information

You can refer to following information to check the MAC address, runtime code, hardware version and its network configuration status of this device.

System	
Uptime	0day:0h:2m:14s
Hardware Version	Rev. A
Runtime Code Version	v1.00
Mode	Converter

Wireless 2.4G Configuration	
ESSID	ACSTest
Channel Number	6
Security	WEP
BSSID(MAC)	74:da:38:07:92:e8
State	Connected

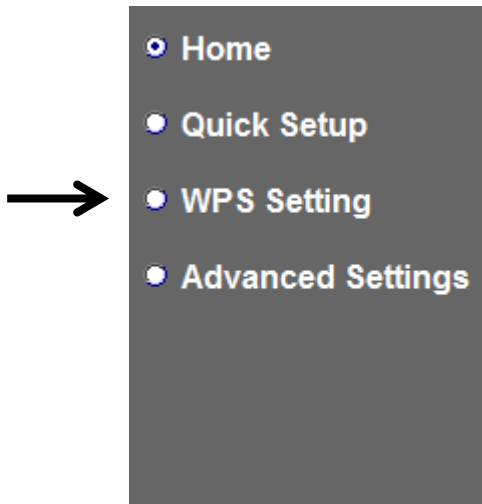
Wireless 5G Configuration	
ESSID	repeater5G
Channel Number	36
Security	Disable
BSSID(MAC)	74:da:38:07:92:ea
State	Disconnection

LAN Configuration	
IP Address	10.10.10.128
Subnet Mask	255.255.255.0
Default Gateway	10.10.10.1
MAC Address	74:da:38:07:92:e8

### 3-2-3 WPS Setting

You can configure WPS (Wi-Fi Protected Setup) here. By using WPS, you can establish a secure connection between this wireless extender and other wireless devices which also support WPS in a fast and secure manner.

To access the 'WPS Setting' menu, click 'WPS Setting' on the left.



The following setup page will appear:

**Enable WPS**

- 2.4G Wi-Fi Protected Setup Information**

WPS Status:	Configured
Self PinCode:	04963608
SSID:	repeater24G
Authentication Mode:	WEP
Passphrase Key:	
- Device Configure**

WPS Setting :	<input checked="" type="radio"/> Enable 2.4G WPS <input type="radio"/> Enable 5G WPS
Configure via Push Button:	<input type="button" value="Start PBC"/>

The description of every setup item is listed as follows:

Item	Description
Enable WPS	You can enable or disable the WPS function. Disabling the WPS function is included in the hardware WPS button function. Default is 'enable WPS'.
WPS Status	Shows the security setting status of WPS. If the wireless security (encryption) function of this device is properly set, you'll see the 'Configured' message here. If wireless security function has not been set, the WPS Status will display 'unConfigured'.
Self PinCode	This displays an 8-digit number for WPS PIN-style

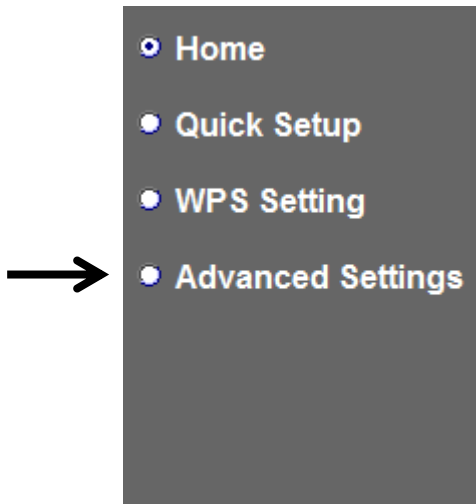
	configuration. When another WPS-compatible device wishes to connect to this wireless extender and supports Self-PIN type WPS, input this number to the wireless device to establish connection.
SSID	Shows the SSID of this wireless extender.
Authentication Mode	Shows the authentication mode of this wireless extender.
Passphrase Key	This shows asterisks (*) to indicate wireless security is properly set.
WPS Setting	You can select which band(2.4G or 5G) you want to build wireless connection via the 'Start PBC' button. The default is '2.4G'.
Start PBC	Click 'Start PBC' to start the Push-Button style WPS setup procedure. This wireless extender device will wait for WPS requests from another wireless device for 2 minutes.  The 'WPS' LED on the wireless extender will be blinking for 2 minutes when this wireless extender is waiting for an incoming WPS request.

***NOTE: For WPS2.0 compliance specification, WEP and WPA-PSK can't support WPS connection, some of the wireless devices may follow this latest WPS2.0 specification, so we recommend not using WEP and WPA-PSK to avoid WPS interoperability problems.***

### **3-2-4 Advanced Settings**

You can configure advanced wireless settings in this page. Please note that these settings are not safe to be configured by novice users. Configure these settings only when you understand what you're doing.

To access the 'Advanced Settings' menu, click 'Advanced Settings' on the left.



The following setup page will appear:

Fragment Threshold:  (256-2346)

RTS Threshold:  (0-2347)

TX Power:  ▼

**Enable LED OFF mode**

- Turn off all LED
- Turn off all LED except POWER LED

The description of every setup item is listed as follows:

Item	Description
Fragment Threshold	Set the Fragment threshold of wireless radio. Do not modify the default value if you don't know what it is. The default value is 2346.
RTS Threshold	Set the RTS threshold of wireless radio. Do not modify the default value if you don't know what it is. The default value is 2347.
TX Power	Select the wireless transmitting power level, from 10% to 100%. When wireless clients are not too far from this wireless extender, you don't have to select a higher power level, since this may cause some individuals to attempt to break into your wireless network if you have a bad password or no password.
Enable LED off mode	You can enable or disable LED lights .



	<p>Check 'Enable LED OFF' mode to setup LED behavior:</p> <p>Turn off all LED: disables all LED lights.</p> <p>Turn off all LED except POWER LED: all LED lights will be disabled, except the 'POWER' LED.</p>
--	--

When you complete the settings in this page, click the 'Apply' button. You'll see the following message:

**Save settings successfully!**

You may press CONTINUE button to continue configuring other settings or press APPLY button to restart the system to make the changes take effect.

If you still need to configure this device, click the 'CONTINUE' button; if you want to save the changes and use it now, click the 'APPLY' button.

**System Restarting! Please wait for a while !**

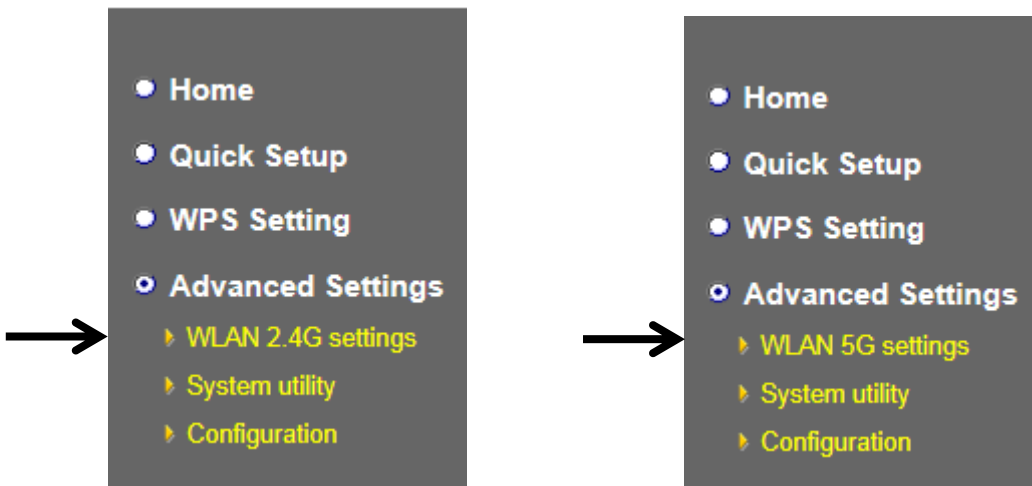
**System Restarting! Please wait for a while !**

You'll be prompted to wait for 50 seconds before you can reconnect to Web user interface of this device.

### **3-2-5 WLAN 5G(or 2.4G) settings**

This extender provides supports both 2.4GHz and 5GHz wireless bands simultaneously; the wireless settings for both wireless bands are almost the same. The following sections will only highlight the different descriptions between these two selections.

Enter into 'Advanced Settings' page, select 'WLAN 2.4G settings' or 'WLAN 5G settings' to configure the wireless settings for the different wireless radio.



The following setup page will appear, it is the settings that you have setup:

**2.4GHz Wireless**

**WLAN 2.4G settings**

Please setup your Device.

Device SSID :	ACSTest
Encryption :	WPA, pre-shared key
WPA Unicast Cipher Suite :	<input checked="" type="radio"/> WPA(TKIP) <input type="radio"/> WPA2(AES)
Pre-shared Key Format :	Passphrase
KEY :	
Channel :	6

**5GHz Wireless**

**WLAN 5G settings**

Please setup your Device.

Device SSID :	XXXXXXXXXXXXXXXXXXXXXXXXXX
Encryption :	WPA pre-shared key
WPA Unicast Cipher Suite :	<input checked="" type="radio"/> WPA(TKIP) <input type="radio"/> WPA2(AES)
Pre-shared Key Format :	Passphrase
KEY :	
Channel :	36

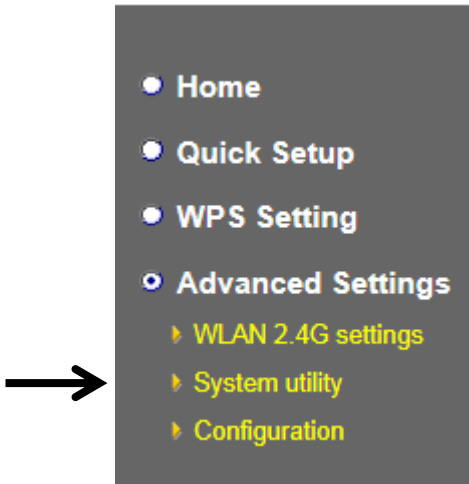
The description of every setup item is listed as follows:

Item	Description
Device SSID	This is the SSID of the wireless network that you're extender is currently connected to. The SSID is used to identify your own extender from others when there are other wireless devices in the same area. You can type any alphanumerical characters to change the SSID here, maximum 32 characters.
Encryption	This is the current security setup of the extender. You can select an encryption method from the drop-down menu, there are three options.
WPA Unicast Cipher Suite	This is the current security setup of the extender. Please select a type of WPA cipher suite. Available options are: WPA (TKIP) and WPA2 (AES). You can select one of them, but you have to make sure your wireless client supports the cipher you selected.
Pre-shared Key Format	This is the current security setup of the extender. You can select the type of pre-shared key, you can select the <b>Passphrase</b> (8 or more alphanumerical characters, up to 63), or <b>Hex</b> (64 characters of 0-9, and a-f).
Key	This is the current security setup of the extender. You can change the WPA passphrase here. It's not recommended to use a word that can be found in a dictionary due to security reasons.
Channel	This is the current channel of the extender.

### 3-2-6 System Utility

You can change the settings of several system-level parameters in this page, including the administrator’s password, and IP address.

To access the ‘System Utility’ menu, click ‘System Utility’ on the left.



The following setup page will appear:

• Password Settings

Current Password :	<input type="text"/>
New Password :	<input type="text"/>
Re-Enter Password :	<input type="text"/>

The description of every setup item is listed as follows:

#### **Password Settings**

Default password of this extender is 1234, and it’s displayed on the login prompt when accessed from web browser. There’s a security risk if you don’t change the default password, since everyone can see it. This is very important when you have the wireless function enabled.

Here are descriptions of every setup item:

Item	Description
Current Password	To change the password, you have to input the current password first.
New Password	Input the new password here. You can use the combination of letters, numbers, and symbols up to 20 characters.
Re-Enter Password	Input the new password again for conformation.

When you complete the settings in this page, click the 'Apply' button. You'll see the following message:

**Save settings successfully!**

You may press **CONTINUE** button to continue configuring other settings or press **APPLY** button to restart the system to make the changes take effect.

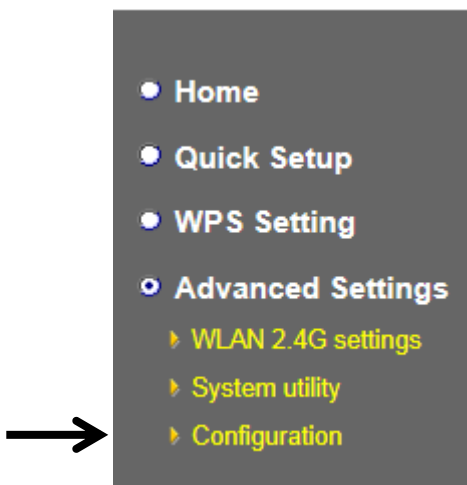
If you still need to configure this device, click the 'CONTINUE' button; if you want to save the changes and use it now, click the 'APPLY' button. You'll be prompted to wait for 50 seconds before you can reconnect to the web user interface of this device.

### 3-2-7 Configuration

You can backup and restore the configuration of this device, so you can recall all settings, without the need to reconfigure again.

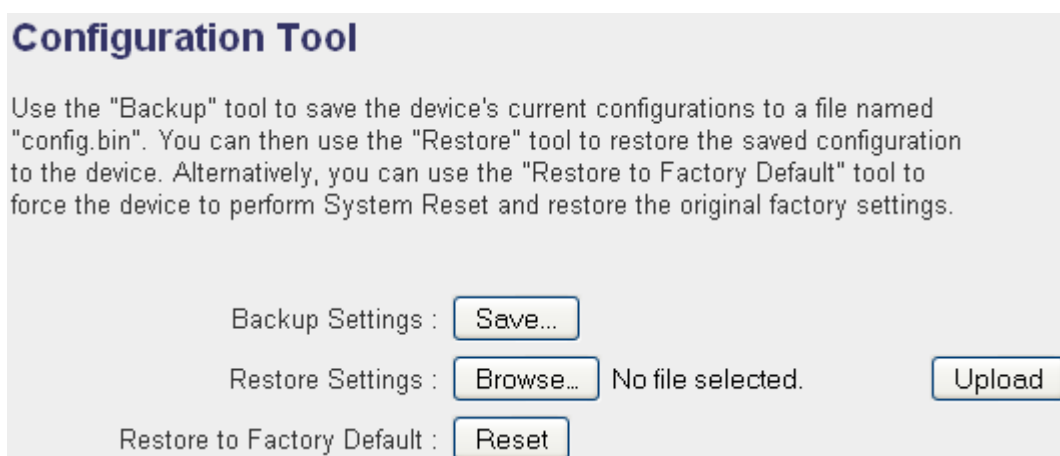
This function is especially useful when you need to use this mini Wi-Fi extender in different places, like your home and hotels.

To access the 'Configuration' menu, click 'Configuration' on the left.

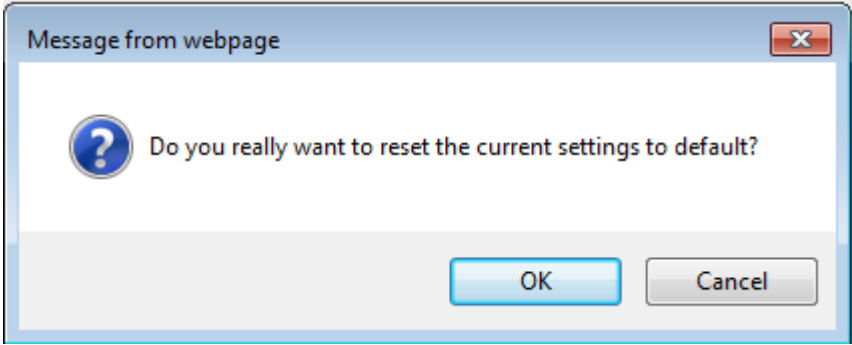


#### 3-2-7-1 Configuration Tool

The following setup page will appear:



The description of every setup item is listed as follows:

Item	Description
Backup Settings	Click the 'Save' button to save the current settings to a file on your computer.
Restore Settings	If you want to upload a saved configuration file to the wireless extender, click the 'Browse' button to select a saved configuration file on your computer. Then click the 'Upload' button to replace the current settings.
Reset to Factory Default	<p>To reset all settings of this wireless extender to factory defaults, including password. You'll be prompted to confirm the settings reset:</p>  <p>Click 'OK' if you really want to restore all settings, or click 'Cancel' to abort.</p>

### 3-2-7-2 WEB Upgrade

The software running on this wireless extender (i.e. 'Firmware') can be upgraded to improve the functionality of this wireless extender.

You can access our website to look for the latest firmware file. Then download the latest firmware file and save on your computer and upload to this wireless extender.

**WEB Upgrade**

This page allows you to upgrade system firmware. It is recommended that upgrading the firmware from wired stations. Enter the path and name of the upgrade file and then click the APPLY button below. You will be prompted to confirm the upgrade.

No file selected.

The description of every setup item is listed as follows:

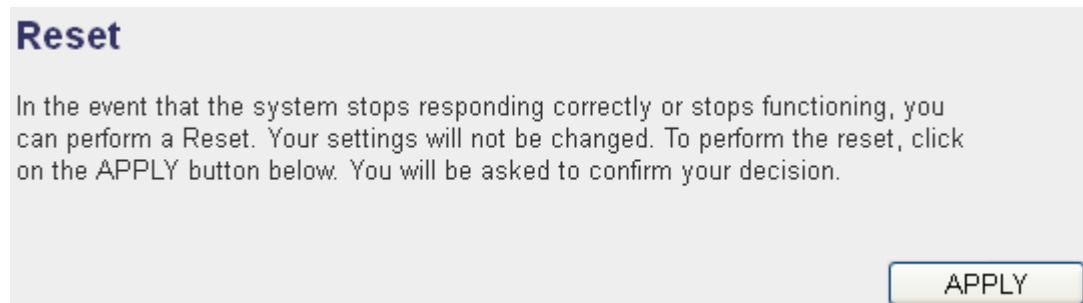
Item	Description
Browse	Select a firmware file saved on your computer.

When you are ready, click the 'Apply' button to start the firmware upgrade procedure.

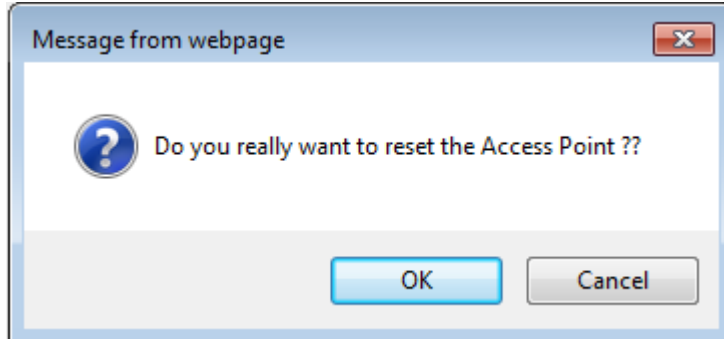


### 3-2-7-3 Reset

In the event that the system stops responding correctly or stops functioning, you can perform a standard Reset or Reset to Defaults. A standard Reset will retain your settings and reboot the extender, while resetting the device to defaults will erase all configuration settings.



To reset this wireless extender, click the 'Apply' button. You'll be prompted to confirm the reset:



Click the 'OK' button to reset the wireless extender, or click 'Cancel' to abort.

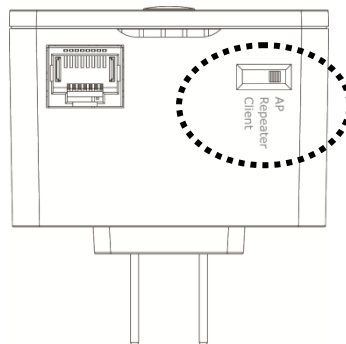
## CHAPTER 4 AP Mode

You can build a wireless networking environment for the home or small office, please switch this device to wireless access point mode and connect it to your wired router. Then your wireless client users can access Internet by wirelessly connecting to this AP without wired cable burden.

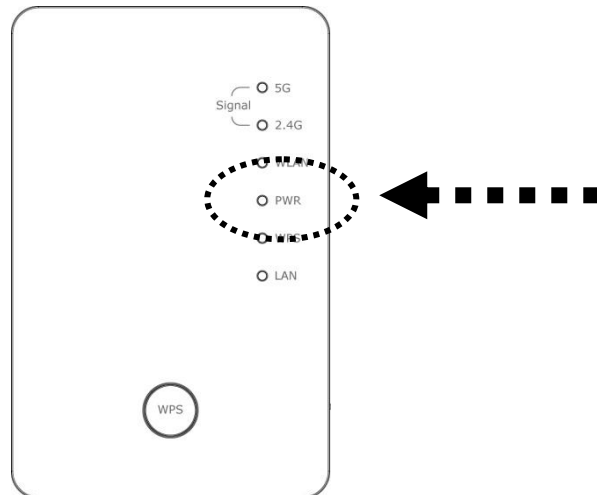
This chapter will show you how to quickly install this device by using quick setup and explain each detailed setting on the web user interface page of AP mode.

### 4-1 AP Mode Quick Installation Guide

Switch mode selector to '**AP**'.



Plug this device into power outlet on the wall. You should see the '**Power**' LED light up in few seconds. If not, please check if the power outlet you're using is working.



You can setup a wireless connection via the 'Hardware WPS button' or 'Software web browser'.

If your wireless client also supports 'WPS button', we recommend you to use WPS button to establish connection.

**Using WPS button**

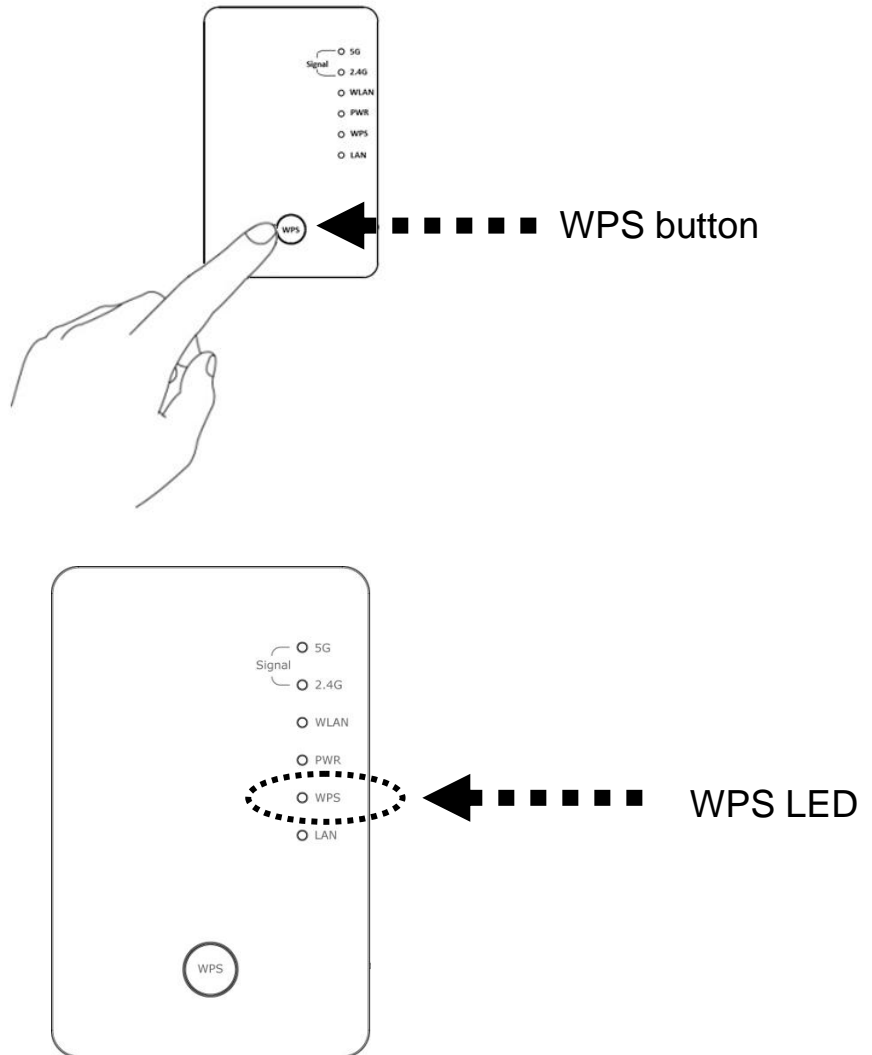
**- please go to section 4-1-1**

**Using Web browser**

**- please go to section 4-1-2**

### 4-1-1 Hardware WPS button setup

1. Press and hold the **WPS button** on the extender for 2 seconds, the '**WPS**' LED will start flashing.



2. Press the WPS button on the wireless client you wish to connect to within 2 minutes.

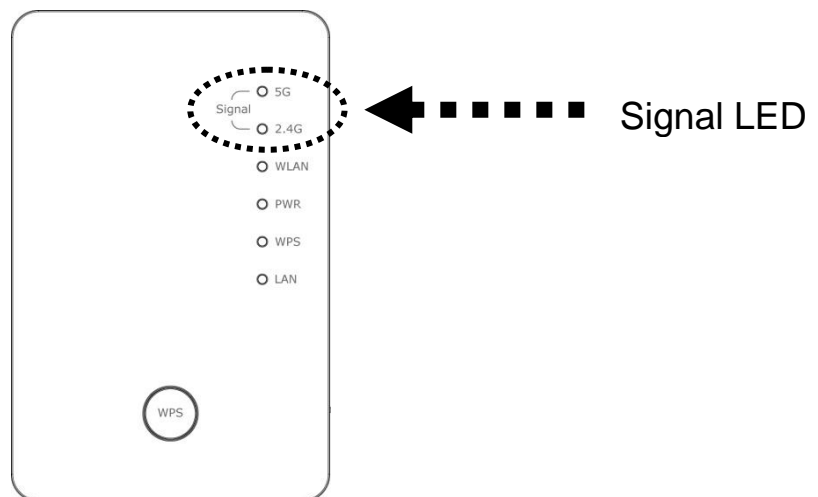


**Please NOTE: this WPS button position on client card is for reference, different devices may have different WPS button positions.**

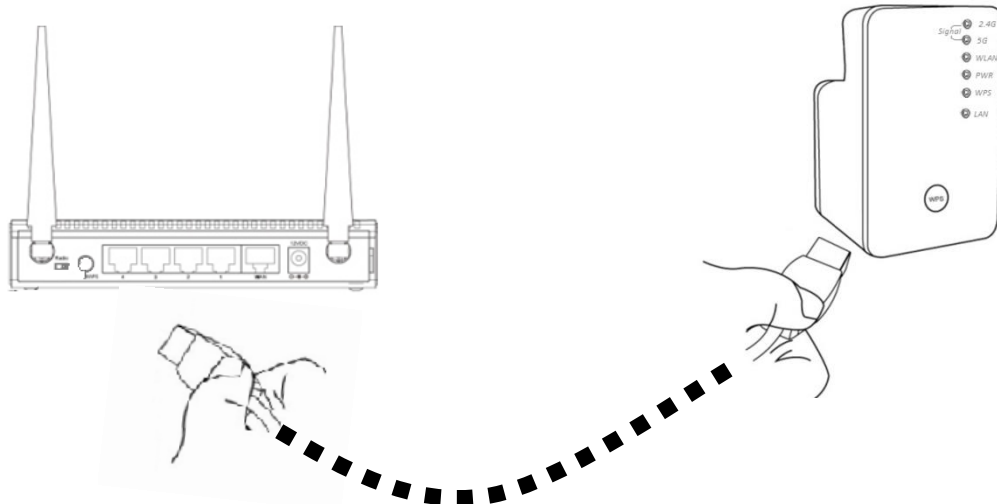
***TIP: If your wireless client card does not have a hardware WPS button, you can also use its web configuration menu's WPS function to establish connection. Or you can login this extender's web user interface to perform quick setup (detailed setup refers to '4-1-2 Web browser quick setup' manual)***

3. If WPS connection is successfully established, the extender will reboot immediately to make your settings take effect ; if the '**WPS**' LED flashes fast, a problem has occurred, please wait for 2 minutes until the '**WPS**' LED off, and start from step(1) again.

When quick installation is successful, the 'Signal' LED will turn on.



4. When the '**Signal**' LED in AP mode is steady, the best wireless signal is provided to clients.
5. Connect this access point to an ADSL modem, wired router, or switch/hub in your network through the LAN port of the access point by Ethernet cable.

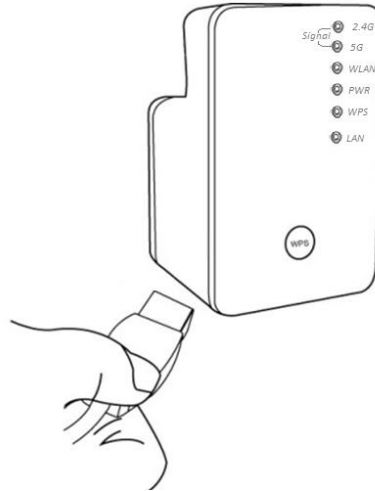


The quick installation setup is complete, you can refer to '4-2 AP mode Advanced Settings' to login to the web user interface for other advanced settings.

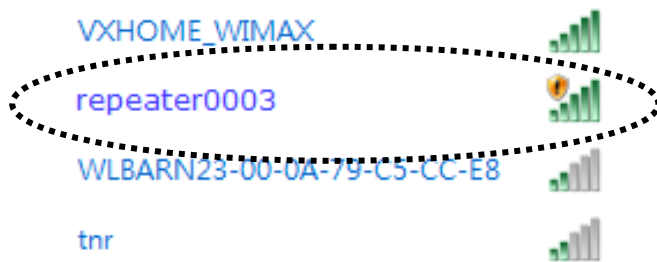
#### **4-1-2 Web browser quick setup**

Before you can connect to the extender and start configuration procedures, your computer must be able to get an IP address automatically (use dynamic IP address). If it's set to use static IP address, or you're unsure, please refer to '[Chapter 5: 5-1 Configuring TCP/IP on PC](#)' to set your computer to use a dynamic IP address.

1. Use an Ethernet cable to connect your computer's Ethernet port and wireless extender's Ethernet port.



Or use your computer's wireless configuration utility to search for an access point named **'repeater0003'** and get connected. (The default SSID of this extender device is **'repeater0003'**, 0003 is a reference, it is the last 4 digits of the device's MAC number. Each device has a different MAC number, please find it on your device label.)



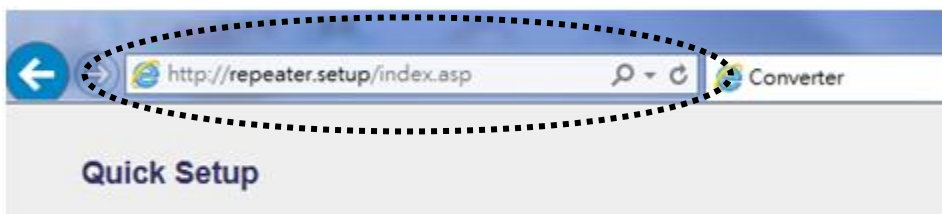
***NOTE: this default SSID 'repeater0003' is for reference, different devices may have different last 4 digits.***

If you are using a wireless connection in Windows 7 and encountered the following screen, please click "Connect the network without setting it up" then you can successfully link to the extender. Do NOT click "OK".

In case you click 'OK', Windows 7 will ask for security key, please click "Cancel" to revert back to this page.



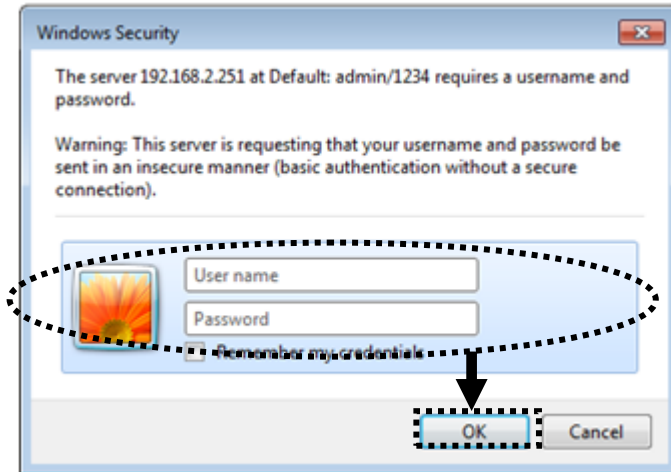
2. Open your web browser, it will redirect to the web user interface setting page. (or you can input the default IP address 'http://repeatersetup' in the address bar)



**NOTE: The default IP address of AP mode is 'http://192.168.2.1', you can also input repeater.setup if your PC is Windows OS based.**

3. The wireless extender will prompt you to input the username and password. Default username is 'admin' and password is '1234'. Click the 'OK' button to continue.





4. Please input an SSID (a name used to identify this access point) in the 'Device SSID(2.4GHz)' and 'Device SSID(5GHz)' field, then click the 'Next' button. The default SSID is repeaterxxxx, you can change this default SSID if you want.

**Quick Setup**

This quick setup helps you build wireless connection. You can change default device SSID.

<input checked="" type="checkbox"/>	Device SSID(2.4GHz):	<input type="text" value="repeater92e8"/>
<input checked="" type="checkbox"/>	Device SSID(5GHz):	<input type="text" value="repeater92ea"/>

5. Select security type of the wireless link to include 2.4Ghz and 5Ghz :  
Encryption: Disable (no security), WEP, WPA pre-shared key, or WPA RADIUS.

## **2.4GHz Wireless**

**2.4G Security**

Please input wireless security key of your connected Access Point

Encryption :	<input type="text" value="Disable"/>
Hidden SSID :	<input type="text" value="NO"/>

### 2.4G Security

Please input wireless security key of your connected Access Point

Encryption :	WEP
Key Length :	64-bit
Key Format :	Hex (10 characters)
Default Tx Key :	Key 1
KEY :	*****
Hidden SSID :	NO

### 2.4G Security

Please input wireless security key of your connected Access Point

Encryption :	WPA pre-shared key
WPA Unicast Cipher Suite :	<input checked="" type="radio"/> WPA(TKIP) <input type="radio"/> WPA2(AES)
Pre-shared Key Format :	Passphrase
KEY :	
Hidden SSID :	NO

## 5GHz Wireless

### 5G Security

Please input wireless security key of your connected Access Point

Encryption :	Disable
Hidden SSID :	NO

## 5G Security

Please input wireless security key of your connected Access Point

Encryption :	WEP
Key Length :	64-bit
Key Format :	Hex (10 characters)
Default Tx Key :	Key 1
KEY :	*****
Hidden SSID :	NO

## 5G Security

Please input wireless security key of your connected Access Point

Encryption :	WPA pre-shared key
WPA Unicast Cipher Suite :	<input checked="" type="radio"/> WPA(TKIP) <input type="radio"/> WPA2(AES)
Pre-shared Key Format :	Passphrase
KEY :	
Hidden SSID :	NO

**Note: WEP encryption: Select key length (64 or 128bit), key format (Hex or ASCII characters), Default Tx Key (usually use 'Key 1'), and input key characters (refer to 'Key Format' you selected for number of characters).**

**WPA pre-shared key: Select one WPA Unicast Cipher Suite (usually use default setting 'WPA(TKIP)'), Pre-shared Key Format: Passphrase (alphanumeric characters) or Hex (64 Hex Characters), and input key characters in the 'KEY' field.**

**WPA RADIUS: Only use this option if you have a RADIUS authentication server on your LAN. You have to input the RADIUS server's parameters (Server IP, port number, and password).**

- Please recheck the settings you made, and click 'Apply' to continue.

**Save settings successfully!**

You may press CONTINUE button to continue configuring other settings or press APPLY button to restart the system to make the changes take effect.

Device SSID(2.4GHz) : **repeater92e8**

Security : **Disable**

Device SSID(5GHz) : **repeater92ea**

Security : **Disable**

- Please wait for few seconds for device to reboot.

**System Restarting! Please wait for a while !**

**System Restarting! Please wait for a while !**

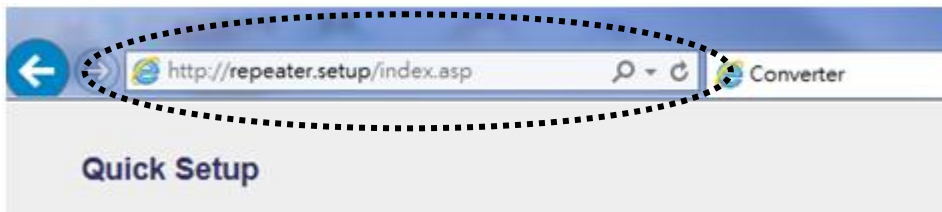
- After reboot is complete, you can close the browser to finish this quick setup and connect this access point to an ADSL modem, wired router, or switch/hub in your network through the LAN port of the access point by Ethernet cable.

**NOTE: After quick installation is successful and you want to login to the web user interface of the extender, please refer to '4-2 AP mode Advanced Settings' for more functions or learn how to login to the web user interface again.**

## 4-2 AP Mode Advanced Settings

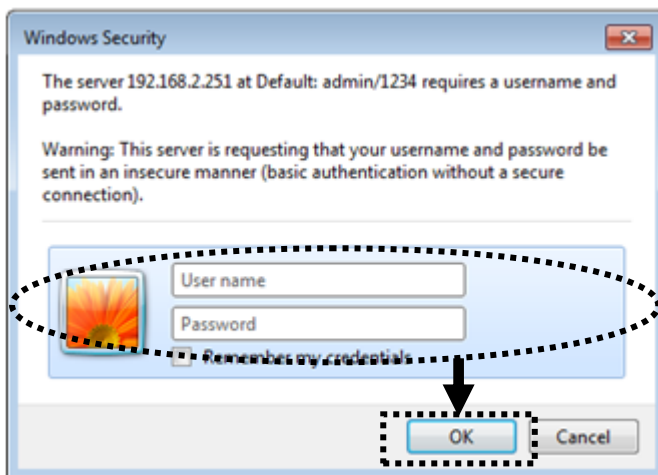
### 4-2-1 Connect to web configuration menu

Please open your web browser (IE, Firefox, Chrome etc.) and input '**http://repeater.setup**' in the address bar, then press the ENTER key:



12. **NOTE: The default IP address of AP mode is 'http://192.168.2.1' you can also input repeater.setup if your PC is Windows OS based.**

The wireless extender will prompt you to input the username and password. The default username is '**admin**' and password is '**1234**'. Click the 'OK' button to continue.



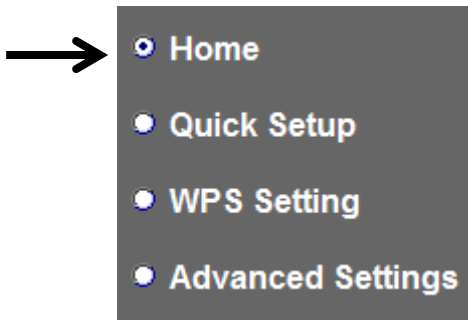
You should be able to see the configuration page of this Access Point mode in a very short time:

Detailed operation instructions will be given below.

## 4-2-2 Home

The status and information of this access point will be displayed here.

To access the 'Home' menu, click 'Home' on the left.



You should see the following (the contents will vary depending on your actual setting):

System	
Uptime	Oday:0h:6m:7s
Hardware Version	Rev. A
Runtime Code Version	v1.00
Mode	Access Point
Wireless 2.4G Configuration	
ESSID	repeater92e8
Channel Number	11
Security	Disable
BSSID(MAC)	74:da:38:07:92:e8
Associated Clients	0 <input type="button" value="Show Active Clients"/>
Wireless 5G Configuration	
ESSID	repeater92ea
Channel Number	36
Security	Disable
BSSID(MAC)	74:da:38:07:92:ea
Associated Clients	0 <input type="button" value="Show Active Clients"/>
LAN Configuration	
IP Address	192.168.2.100
Subnet Mask	255.255.255.0
Default Gateway	192.168.2.1
MAC Address	74:da:38:07:92:e8

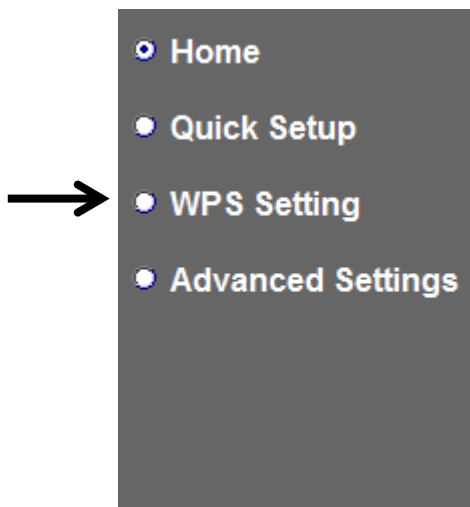
You can click the 'Show Active Clients' button to show all connected wireless clients.

**Please note: By clicking the 'Show Active Clients' button, a new browser window will appear. If your browser prevents a pop-up window from appearing, please disable this function or you will not be able to use the 'Show Client' function.**

### 4-2-3 WPS Setting

You can configure WPS (Wi-Fi Protected Setup) here. By using WPS, you can establish a secure connection between this wireless extender and other wireless devices which also support WPS in a fast and secure manner.

To access the 'WPS Setting' menu, click 'WPS Settings' on the left.



The following setup page will appear:



### WPS(Wi-Fi Protected Setup) Settings

This page allows you to change the setting for WPS(Wi-Fi Protected Setup).WPS can help your wireless client automatically connect to the Access Point.

**Enable WPS**

- 2.4G Wi-Fi Protected Setup Information**

WPS Status:	Configured
Self PinCode:	04963608
SSID:	repeater92e8
Authentication Mode:	Disable
Passphrase Key:	
- Device Configure**

WPS Setting :	<input checked="" type="radio"/> Enable 2.4G WPS <input type="radio"/> Enable 5G WPS
Configure via Push Button:	<input type="button" value="Start PBC"/>
Input client PIN code :	<input type="text"/> <input type="button" value="Start PIN"/>

The description of every setup item is listed as follows:

Item	Description
WPS Status	Shows the security setting status of WPS. If the wireless security (encryption) function of this device is properly set, you'll see the 'Configured' message here. If the wireless security function has not been set, you'll see 'unConfigured'.
Self PinCode	This displays an 8-digit number for WPS PIN-style configuration. When another WPS-compatible device wishes to connect to this wireless extender and supports Self-PIN type WPS, input this number to the wireless device to establish connection.
SSID	Shows the SSID of this wireless extender.
Authentication Mode	Shows the authentication mode of this wireless extender.
Passphrase Key	This shows asterisks (*) to indicate wireless security is properly set.
WPS Setting	You can select which band(2.4G or 5G) you want to build

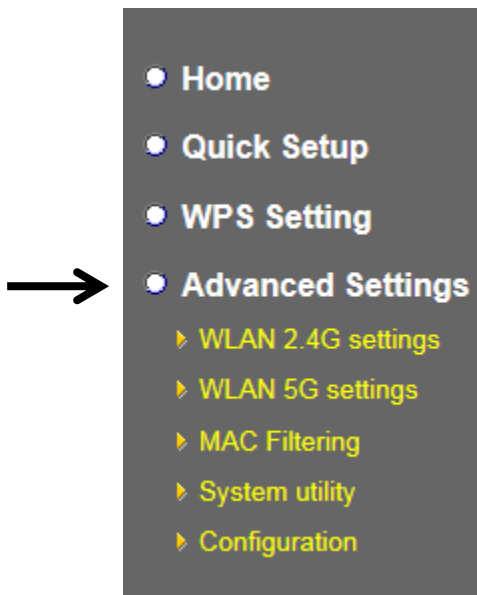
	wireless connection via the 'Start PBC' button. Default is '2.4G'.
Start PBC	Click the 'Start PBC' button to start the Push-Button style WPS setup procedure. This wireless extender will wait for WPS requests from another wireless device for 2 minutes. The 'WPS' LED on the wireless extender will be blinking for 2 minutes when this wireless extender is waiting for an incoming WPS request.
Start PIN	Please input the PIN code of the wireless client you wish to connect, and click the 'Start PIN' button. The 'WPS' LED on the wireless extender will be blinking when this wireless extender is waiting for an incoming WPS request.

***NOTE: For WPS2.0 compliance specification, WEP and WPA-PSK can't support WPS connection, some of wireless devices may follow this latest WPS2.0 specification, so we recommend not using WEP and WPA-PSK to avoid WPS interoperability problems.***

## 4-2-4 Advanced Settings

You can configure advanced wireless settings in this page. Please note that these settings are not safe to be configured by novice users. Configure these settings only when you understand what you're doing.

To access the 'Advanced Setting's menu, click 'Advanced Settings' on the left.



The following setup page will appear:

## Advanced Settings

These settings are only for more technical users who have a sufficient knowledge about wireless LAN. These settings should not be changed unless you know what effect the changes will have on your repeater device.

Fragment Threshold:	<input type="text" value="2346"/>	(256-2346)
RTS Threshold:	<input type="text" value="2347"/>	(0-2347)
Beacon Interval:	<input type="text" value="100"/>	(20-1024 ms)
DTIM Period:	<input type="text" value="3"/>	(1-10)
Channel Width:	<input checked="" type="radio"/> Auto 80 MHz(5G Only) <input type="radio"/> Auto 20/40 MHz <input type="radio"/> 20 MHz	
Preamble Type:	<input checked="" type="radio"/> Short Preamble <input type="radio"/> Long Preamble	
Broadcast ESSID:	<input checked="" type="radio"/> Enable <input type="radio"/> Disable	
WMM:	<input type="radio"/> Enable <input checked="" type="radio"/> Disable	
CTS Protect:	<input checked="" type="radio"/> Auto <input type="radio"/> Always <input type="radio"/> None	
TX Power:	<input type="text" value="100 %"/>	

**Enable LED OFF mode**  
 Turn off all LED  
 Turn off all LED except POWER LED

The description of every setup item is listed as follows:

Item	Description
Fragment Threshold	Set the Fragment threshold of wireless radio. Do not modify the default value if you don't know what it is. The default value is 2346.
RTS Threshold	Set the RTS threshold of wireless radio. Do not modify the default value if you don't know what it is. The default value is 2347.
Beacon Interval	Set the beacon interval of wireless radio. Do not modify the default value if you don't know what it is. The default value is 100.
DTIM Period	Configures DTIM (Delivery Traffic Indication Message)

	send period. The default value is 3.
Channel Width	Set channel width of wireless radio. You can modify the default value if you know what channel width you need, default setting is 'Auto 80MHz'.
Preamble Type	Set the type of preamble of wireless radio. Do not modify the default value if you don't know what it is. The default setting is 'Short Preamble'.
Broadcast ESSID	When set to 'enabled', every wireless device can scan and find this wireless extender; when set to 'disabled', only wireless clients who know the exact SSID can get connected with this wireless extender. Set to disabled will help to improve security.
WMM	Enable or disable Wireless Multi-Media. When enabled, the wireless extender will give priority to multimedia related network applications so they will have better performance.
CTS Protect	This function provides CTS (Clear to Send) protection when transferring data. It's recommended to select 'Auto' for this option.
TX Power	Select the wireless transmitting power level, from 10% to 100%. When wireless clients are not too far from this wireless extender, you don't have to select a higher power level, since this may cause some individuals to attempt to break into your wireless network if you have a bad password or no password.
Enable LED off mode	You can enable or disable LED lights. Check ' <b>Enable LED OFF</b> ' mode to setup LED behavior: Turn off all LED: disables all LED lights. Turn off all LED except POWER LED: all LED lights will be disabled, except the 'POWER' LED.

When you complete the settings in this page, click the 'Apply' button. You'll see the following message:

**Save settings successfully!**

You may press CONTINUE button to continue configuring other settings or press APPLY button to restart the system to make the changes take effect.

If you still need to configure this wireless extender, click the 'CONTINUE' button; if you want to save the changes and use it now, click the 'APPLY' button.

**System Restarting! Please wait for a while !**

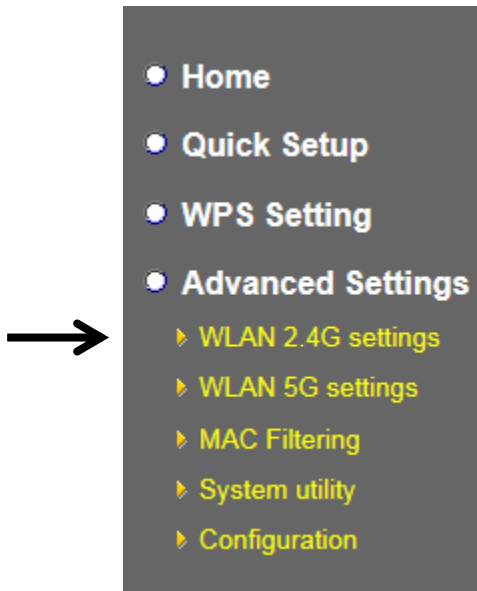
You'll be prompted to wait for 50 seconds before you can reconnect to the web user interface of this access point.

**System Restarting! Please wait for a while !**

After the countdown click the 'OK!' button.

### 4-2-5 WLAN 2.4G settings

To access the 2.4GHz Wireless menu, click 'WLAN 2.4G settings' on the left.



The following setup page will appear, it is the settings that you have setup:

**WLAN 2.4G settings**

Please setup your Device.

Device SSID :	repeater92e8
Encryption :	WPA pre-shared key ▼
WPA Unicast Cipher Suite :	<input checked="" type="radio"/> WPA(TKIP) <input type="radio"/> WPA2(AES)
Pre-shared Key Format :	Passphrase ▼
KEY :	
Channel :	11 ▼

**Please Note: If your extender is working properly, please do not change the settings here.**

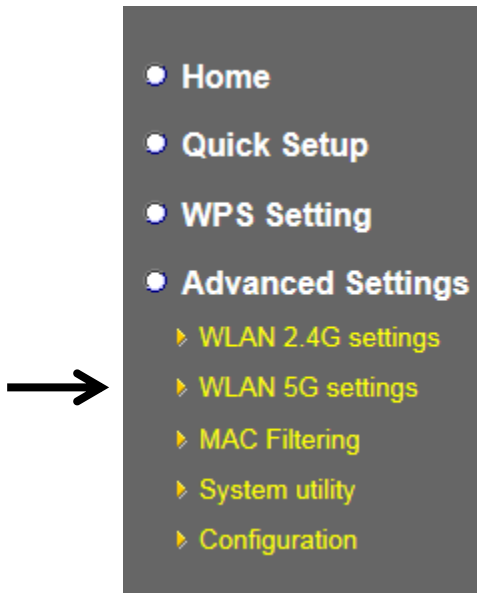
The description of every setup item is listed as follows:

Item	Description
Device SSID	This is the current SSID name of the extender. The SSID is used to identify your own extender from others when there are other wireless devices in the same area. You can type any alphanumerical characters to change SSID here, maximum 32 characters.
Encryption	This is the current security setup of the extender. You can select an encryption method from the drop-down menu, there are three options.
WPA Unicast Cipher Suite	This is the current security setup of the extender. Please select a type of WPA cipher suite. Available options are: WPA (TKIP) and WPA2 (AES). You can select one of them, but you have to make sure your wireless client supports the cipher you selected.
Pre-shared Key Format	This is the current security setup of the extender. You can select the type of pre-shared key, you can select the <b>Passphrase</b> (8 or more alphanumerical characters, up to 63), or <b>Hex</b> (64 characters of 0-9, and a-f).
Key	This is the current security setup of the extender. You can change the WPA passphrase here. It's not recommended to use a word that can be found in a dictionary due to security reasons.
Channel	This is the current channel of the extender.



#### 4-2-6 WLAN 5G settings

To access the 5GHz Wireless menu, click 'WLAN 5G settings' on the left.



The following setup page will appear, it is the settings that you have setup:

**WLAN 5G settings**

Please setup your Device.

Device SSID :	repeater92ea
Encryption :	WPA pre-shared key
WPA Unicast Cipher Suite :	<input checked="" type="radio"/> WPA(TKIP) <input type="radio"/> WPA2(AES)
Pre-shared Key Format :	Passphrase
KEY :	
Channel :	36

**Please Note: If your extender is working properly, please do not change the settings here.**

The description of every setup item is listed as follows:

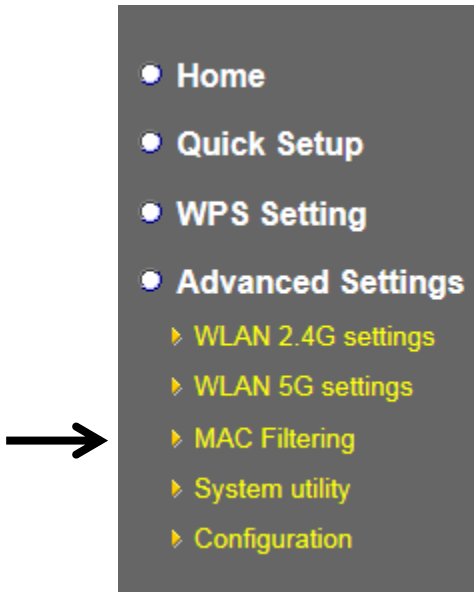
Item	Description
Device SSID	This is the current SSID name of the extender. The SSID is used to identify your own extender from others when there are other wireless devices in the same area. You can type any alphanumerical characters to change the SSID here, maximum 32 characters.
Encryption	This is the current security setup of the extender. You can select an encryption method from the drop-down menu, there are three options.
WPA Unicast Cipher Suite	This is the current security setup of the extender. Please select a type of WPA cipher suite. Available options are: WPA (TKIP) and WPA2 (AES). You can select one of them, but you have to make sure your wireless client supports the cipher you selected.
Pre-shared Key Format	This is the current security setup of the extender. You can select the type of pre-shared key, you can select the <b>Passphrase</b> (8 or more alphanumerical characters, up to 63), or <b>Hex</b> (64 characters of 0-9, and a-f).
Key	This is the current security setup of the extender. You can change the WPA passphrase here. It's not recommended to use a word that can be found in a dictionary due to security reasons.
Channel	This is the current channel of the extender.

#### 4-2-7 MAC Address Filtering

Besides using wireless security to only allow permitted wireless users to use this wireless access point, you can also use the MAC address filter to allow wireless users with certain MAC addresses to use this access point.

This will enhance security because you can make a 'white list' to allow users on the list to use this wireless extender. Clients who aren't listed on this white list, they can't get connected, even if they know the password.

To access the 'MAC Filtering' menu, click 'MAC Filtering' on the left.



The following setup page will appear:

### MAC Address Filtering

For security reason, the device support MAC Address Filtering allows authorized MAC Addresses associating to the device.

- MAC Address Filtering Table**  
 It allows to entry 20 sets address only.

NO.	MAC Address	Comment	Select
<input type="button" value="Delete Selected"/> <input type="button" value="Delete All"/> <input type="button" value="Reset"/>			
<input type="checkbox"/> <b>Enable Wireless Access Control</b>			
New	MAC Address: <input type="text"/>	Comment: <input type="text"/>	<input type="button" value="Add"/> <input type="button" value="Clear"/>
			<input type="button" value="APPLY"/> <input type="button" value="CANCEL"/>

The description of every setup item is listed as follows:

Item	Description
Enable Wireless Access Control	Check this box to enable MAC filtering. If you don't check this box, anyone who knows the wireless password can get connected to this access point.
MAC Address	Input the MAC address of the clients you wish to deny or

	<p>provide access to this AP into the MAC address list. Please input 12 HEX characters here, you don't have to add : (colon) or - (dash) characters every 2 characters.</p> <p><i>If you don't know how to get the MAC address of a network client, see the following page.</i></p>
Comment	Input any descriptive text about this rule, so you can remember the purpose of this rule. You can input up to 20 alphanumerical characters in this field.
Add	Add this MAC address to the list.
Clear	Clear 'MAC Address' and 'Comment' field.
Delete Selected	Delete MAC address(es) you selected.
Delete All	Delete all MAC addresses on the list. You'll be prompted to confirm deletion first.
Reset	Uncheck all checked boxes.
Select	All existing MAC addresses will be listed here. To delete a MAC address from the list, check the box of the MAC address you wish to delete first. You can select more than one MAC address here.

Click the 'Apply' button. You'll see the following message:

**Save settings successfully!**

You may press CONTINUE button to continue configuring other settings or press APPLY button to restart the system to make the changes take effect.

If you still need to configure this wireless extender, click the 'CONTINUE' button; if you want to save the changes and use it now, click the 'APPLY' button. You'll be prompted to wait for 50 seconds before you can reconnect to this access point.

TIPS: If you don't know the MAC address of your computer or wireless device, you can the procedure below:

For wireless devices and computers which are connected to this wireless extender already, you can click the 'Show Active Clients' button on the 'Home' setting page.

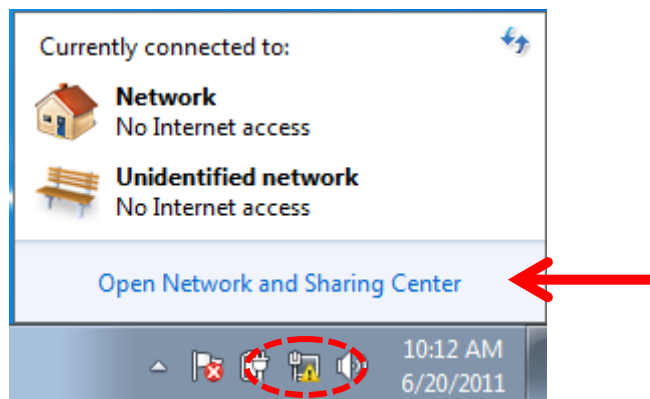
Wireless Configuration	
Mode	AP
ESSID	repeater
Channel Number	10
Security	WEP
BSSID(MAC)	80:1f:02:00:00:03
Associated Clients	0 <input type="button" value="Show Active Clients"/>

Their MAC address will be displayed in the 'MAC Address' field.

**4-2-8 How to know the MAC address of your device**

If you still can't identify the MAC address of your computer, you can follow this procedure:

Click the network icon located at the lower-right corner, then click 'Open Network and Sharing Center'.



Click the connection that will be used to connect the wireless AP (in this example, 'Local Area Connection'):

View your basic network information and set up connections

ALBERT-VMPC (This computer) — Multiple networks — Internet

View your active networks Connect or disconnect

<p><b>Network</b> Home network</p>	<p>Access type: No Internet access</p> <p>HomeGroup: <u>Joined</u></p> <p>Connections: <u>Local Area Connection</u></p>
<p><b>Unidentified network</b> Public network</p>	<p>Access type: No Internet access</p> <p>Connections: <u>Local Area Connection 2</u></p>

Click the 'Details...' button.

Local Area Connection Status

General

Connection

IPv4 Connectivity:	No Internet access
IPv6 Connectivity:	No network access
Media State:	Enabled
Duration:	07:17:01
Speed:	1.0 Gbps

**Details...**

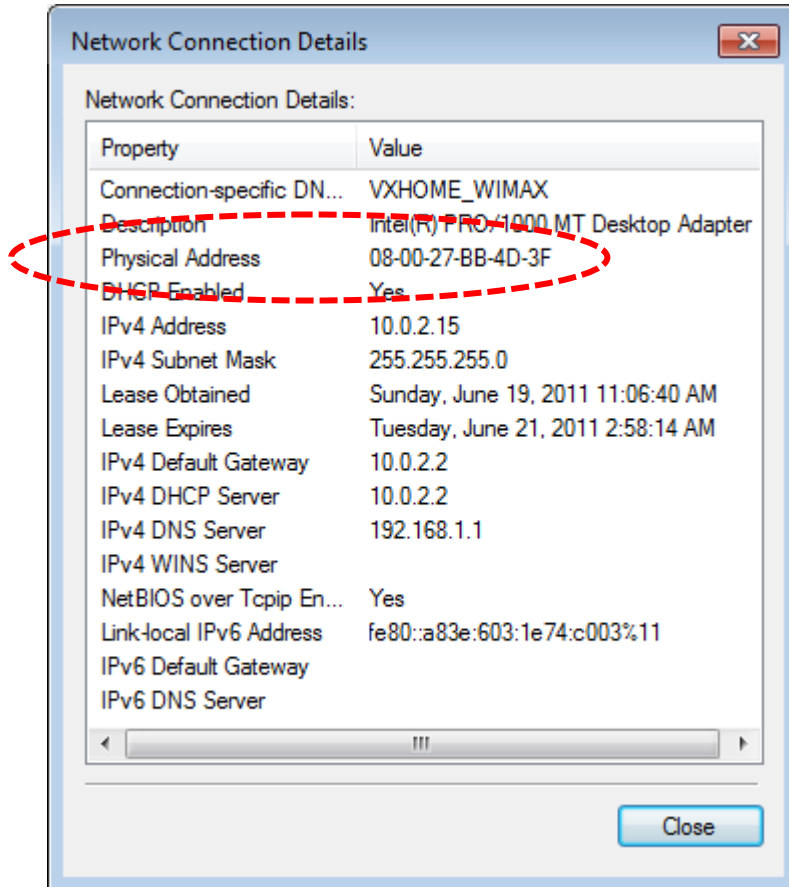
Activity

Sent	Received
Bytes: 71,655	70,247

Properties Disable Diagnose

Close

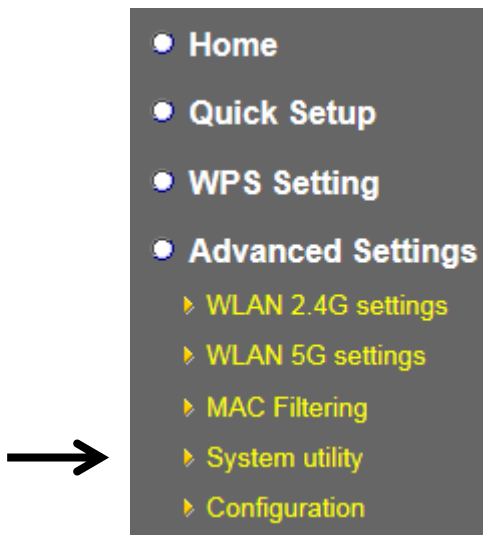
The MAC address of selected network connection will be displayed here as 'Physical Address'.



**4-2-9 System Utility**

You can change the settings of several system-level parameters in this page, including the administrator's password, and IP address.

To access the 'System Utility' menu, click 'System Utility' on the left.



The following setup page will appear:



**• Password Settings**

Current Password :	<input type="text"/>
New Password :	<input type="text"/>
Re-Enter Password :	<input type="text"/>

**• Management IP**

Obtain an IP address automatically :

Use the following IP address :

IP Address :	<input type="text" value="192.168.2.1"/>
Subnet Mask :	<input type="text" value="255.255.255.0"/>
Gateway Address :	<input type="text" value="0.0.0.0"/>

**• DHCP Server**

DHCP Server :	<input type="text" value="Disable"/>
Default Gateway IP :	<input type="text" value="192.168.2.1"/>
Domain Name Server IP :	<input type="text" value="0.0.0.0"/>
Start IP :	<input type="text" value="192.168.2.100"/>
End IP :	<input type="text" value="192.168.2.200"/>
Domain Name :	<input type="text"/>
Lease Time :	<input type="text" value="Half hour"/>

The description of every setup item is listed as follows:

**4-2-9-1 Password Settings**

The default password of this extender is 1234, and it's displayed on the login prompt when accessed from the web browser. There's a security risk if you don't change the default password, since everyone can see it. This is very important when you have the wireless function enabled.

• Password Settings

Current Password :	<input type="text"/>
New Password :	<input type="text"/>
Re-Enter Password :	<input type="text"/>

Here are descriptions of every setup item:

Item	Description
Current Password	To change the password, you have to input the current password first.
New Password	Input the new password here. You can use the combination of letters, numbers, and symbols up to 20 characters.
Re-Enter Password	Input the new password again for conformation.

**4-2-9-2 Management IP**

The default is set to DHCP client to obtain an IP address automatically from your broadband router.

To set up the IP address of this wireless extender, please see the following description.

• Management IP

Obtain an IP address automatically :

Use the following IP address :

IP Address :	192.168.2.1
Subnet Mask :	255.255.255.0
Gateway Address :	0.0.0.0

Here are descriptions of every setup item:

Item	Description
IP Address	<p>Input the IP address of the LAN / Wi-Fi port of this access point. (Default IP of AP mode is 192.168.2.1)</p> <p><i>NOTE: If you enable DHCP server, please input one static IP address here. Please remember this IP address or you can open browser to input the default value 'http://repeaterxxxx' (refer to 4-2-1 setting) to login to the Web user interface page or reset to default.( Press the WPS button and hold for 10 seconds to restore all settings to factory defaults)</i></p>
Subnet Mask	Input the subnet mask of the IP address you're using.
Gateway Address	<p>Input the gateway's IP address of your network.</p> <p>Generally you can use '0.0.0.0' (default value) since this wireless extender will access the Internet via the WAN port.</p>

**4-2-9-3 DHCP Server**

This wireless access point is capable of acting as a DHCP server for your network, and it is disabled by default. If you want to activate this function, please select 'Enabled' in the 'DHCP Server' option, and see the following detailed instructions; if you don't want to use the DHCP server function of this wireless access point, or there's another DHCP server on the network this access point connects to, please select 'Disable'.

**NOTE: If you select 'Disable' in the 'DHCP Server' option, all DHCP-related fields will be grayed out, and you will not be able to input any DHCP parameter.**

• DHCP Server

DHCP Server :	Disable ▾
Default Gateway IP :	192.168.2.1
Domain Name Server IP :	0.0.0.0
Start IP :	192.168.2.100
End IP :	192.168.2.200
Domain Name :	
Lease Time :	Half hour ▾

Here are descriptions of every setup item:

DHCP Server	If you want to activate the DHCP server function of this router, select 'Enable', or set it to 'Disable'.
Default Gateway IP	Please input the IP address of the default gateway of your network here.
Domain Name Server IP	Please input the IP address of the domain name server (DNS) here.
Start IP	Please input the start IP address of the IP range.
End IP	Please input the end IP address of the IP range.

Domain Name	If you wish, you can also input the domain name for your network. This is optional.
Lease Time	Please choose a lease time (the duration that every computer can keep a specific IP address) of every IP address assigned by this access point from the drop-down menu.

When you complete the settings in this page, click the 'Apply' button. You'll see the following message:

**Save settings successfully!**

You may press CONTINUE button to continue configuring other settings or press APPLY button to restart the system to make the changes take effect.

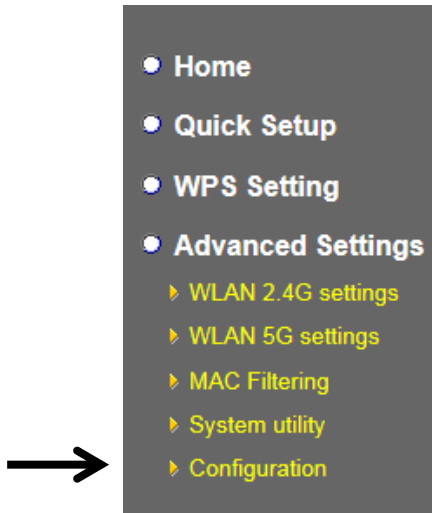
If you still need to configure this wireless extender, click the 'CONTINUE' button; if you want to save the changes and use it now, click the 'APPLY' button. You'll be prompted to wait for 50 seconds before you can reconnect to this device.

#### **4-2-10 Configuration**

You can backup and restore the configuration of this access point, so you can recall all settings, without the needing to reconfigure again.

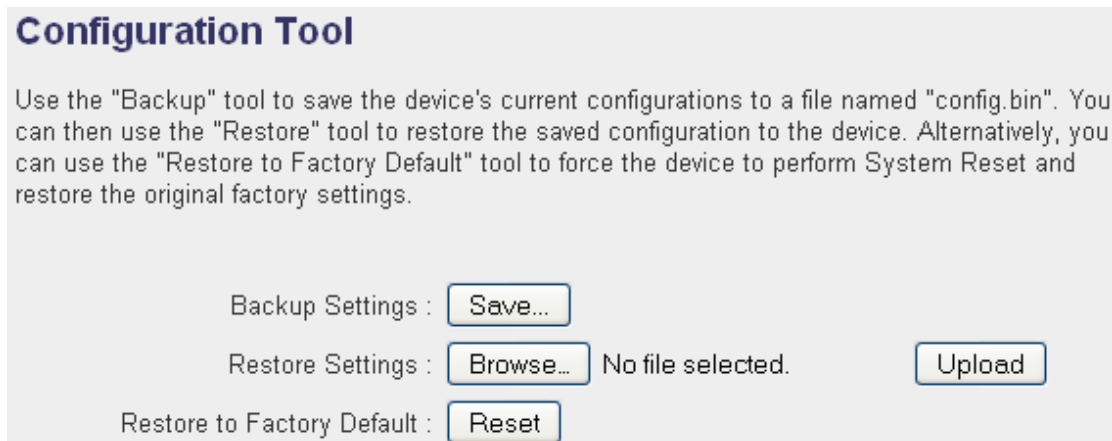
This function is especially useful when you need to use this mini Wi-Fi AP in different places, like your home and hotels.

To access the 'Configuration' menu, click 'Configuration' on the left.



**4-2-10-1 Configuration Tool**

The following setup page will appear:




The description of every setup item is listed as follows:

Item	Description
Backup Settings	Click the 'Save' button to save the current settings to a file on your computer.
Restore Settings	If you want to upload a saved configuration file to this device, please click the 'Browse' button to select a saved configuration file on your computer. Then click the 'Upload' button to replace the current settings.
Reset to Factory Default	To reset all settings of this device to factory defaults, including the password. You'll be prompted to confirm the settings reset:

X

Message from webpage



Do you really want to reset the current settings to default?

Click 'OK' if you really want to restore all settings, or click 'Cancel' to abort.

**4-2-10-2 WEB Upgrade**

The software running on this device (i.e. 'Firmware' ) can be upgraded to improve the functionality of this access point.

You can access our website to look for the latest firmware file. Then download the latest firmware file and save on your computer and upload to this wireless AP.

### WEB Upgrade

This page allows you to upgrade system firmware. It is recommended that upgrading the firmware from wired stations.

Enter the path and name of the upgrade file and then click the APPLY button below. You will be prompted to confirm the upgrade.

No file selected.

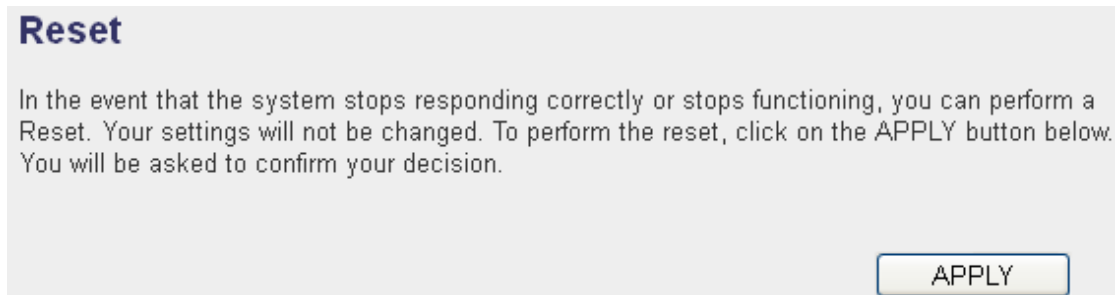
The description of every setup item is listed as follows:

Item	Description
Browse	Select a firmware file saved on your computer.

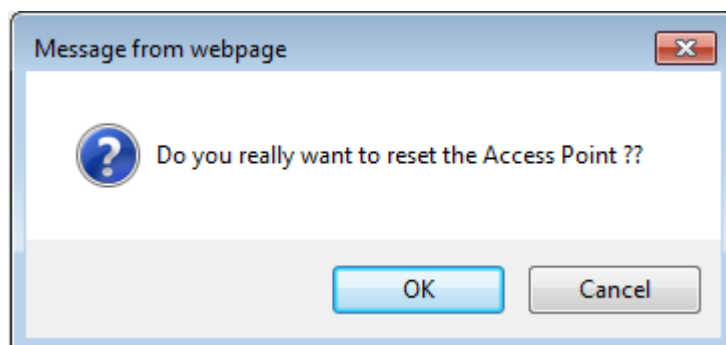
When you are ready, click the 'Apply' button to start the firmware upgrade procedure.

### 4-2-10-3 Reset

When you think this wireless AP is not working properly, resetting it may help.



To reset this wireless extender, click the 'Apply' button. You'll be prompted to confirm the reset:



Click the 'OK' button to reset the wireless extender, or click 'Cancel' to abort.

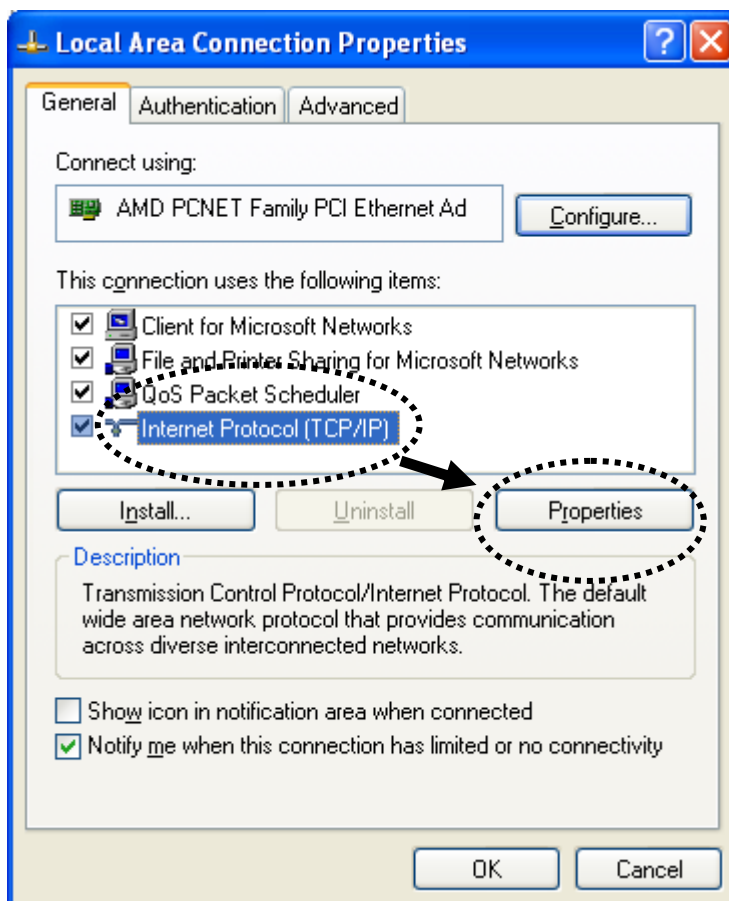


## Chapter 5 Appendix

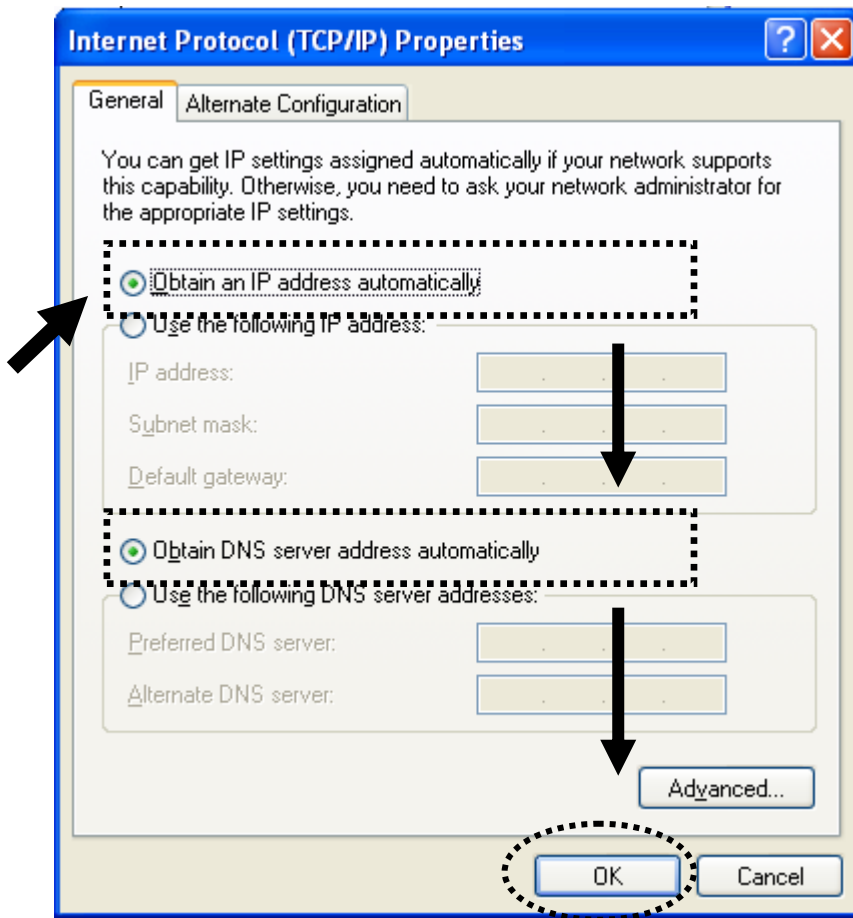
### 5-1 Configuring TCP/IP on PC

#### 5-1-1 Windows XP IP address setup:

1. Click the 'Start' button (it should be located at the lower-left corner of your computer screen), then click control panel. Double-click **Network and Internet Connections** icon, and then click **Network Connections**, then double-click **Local Area Connection**, the **Local Area Connection Status** window will appear, and then click the 'Properties' button.

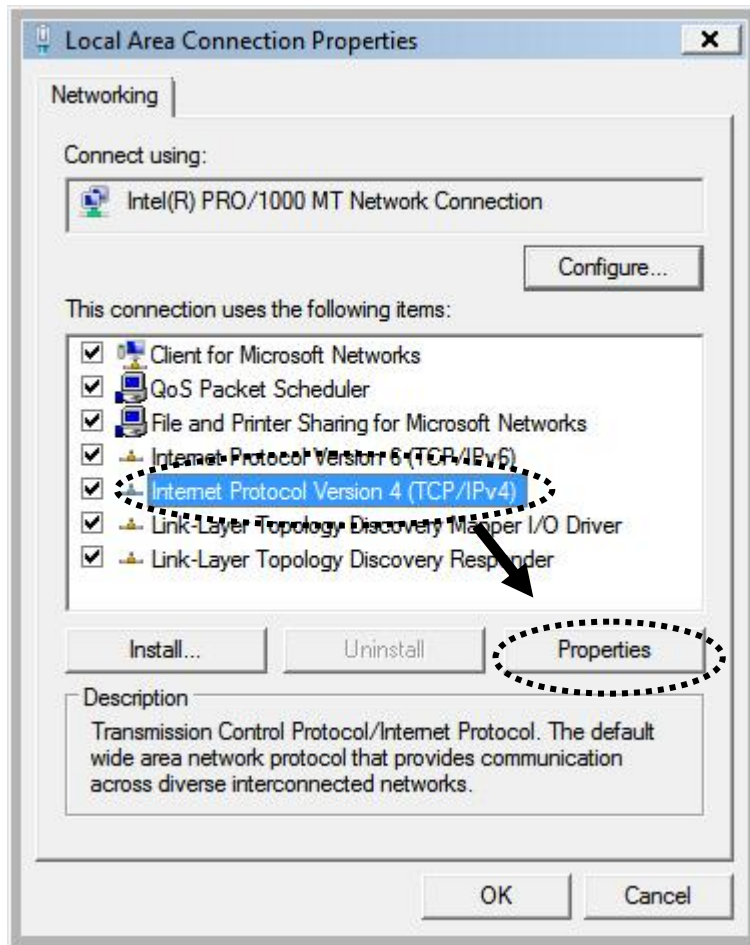


2. Select 'Obtain an IP address automatically' and 'Obtain DNS server address automatically', then click the 'OK' button.



### 5-1-2 Windows Vista/Windows 7 IP address setup:

1. Click the 'Start' button (it should be located at lower-left corner of your computer screen), then click control panel. Click View Network Status and Tasks, and then click Manage Network Connections. Right-click Local Area Network, then select 'Properties'. The Local Area Connection Properties window will appear, select 'Internet Protocol Version 4 (TCP / IPv4)', and then click the 'Properties' button.



2. Select 'Obtain an IP address automatically' and 'Obtain DNS server address automatically', then click the 'OK' button.

