



HWUR54G

Wireless-G
Range Extender



User's Manual

CE MARK WARNING

This is a Class B product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

LIMITED WARRANTY

Hawking Technology guarantees that every HWUR54G Wireless-G Range Extender is free from physical defects in material and workmanship under normal use for two (2) years from the date of purchase. If the product proves defective during this two-year warranty period, call Hawking Customer Service in order to obtain a Return Authorization number. Warranty is for repair or replacement only. Hawking Technology does not issue any refunds. **BE SURE TO HAVE YOUR PROOF OF PURCHASE. RETURN REQUESTS CAN NOT BE PROCESSED WITHOUT PROOF OF PURCHASE.** When returning a product, mark the Return Authorization number clearly on the outside of the package and include your original proof of purchase.

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Chapter 1: Introduction

Thank you for purchasing the Hawking Technologies Wireless-G Range Extender. The HWUR54G is compliant with the IEEE 802.11g/b wireless standards.

The **Wireless-G Range Extender** is an innovative addition to Hawking's Hi-Speed Wireless-G 54Mbps line of wireless 802.11g products. It easily and effectively doubles the operating range of your wireless network. Utilizing the latest in wireless silicon technology the HWUR54G features a plug and play solution for wireless networks that demand a larger operating distance. Whether it's a specific bedroom in a home or the warehouse of a business, the Hawking Range Extender fills the gap in within wireless networks.

The unique Universal Support Technology allows the Range Extender to repeat ANY 802.11b or 802.11g wireless signal, regardless of the brand and make of the product. The HWUR54G solves the compatibility issues that exist in other brands of wireless repeaters. With the Universal Support feature, setup of the HWUR54G is simple. All that is required is the name of your wireless network.

The HWUR54G supports the latest in wireless security. Support for 128-Bit WEP encryption and WPA ensure that your wireless network will be safe and secure.

The Range Extender features a detachable antenna for compatibility with Hawking's complete line of Hi-Gain Wi-Fi Range Extending Antennas and devices.

1.1 Package Contents

The HWUR54G includes the following items:

- One HWUR54G Range Extender
- One Power Adapter
- One Quick Installation Guide
- One Setup CD (Hawking WiFi Locator Software Included)
- One Dipole Antenna

1.2 Features

- Complies with the IEEE 802.11g/b wireless standards.
- Extends the range of any wireless 802.11b or 802.11g network.
- Universal Support Technology – Works with all 802.11b, 802.11g wireless networks.
- 1 Minute installation using the included Setup Wizard.
- High speed data rates: 54, 48, 36, 24, 18, 12, 11, 5.5, 2 and 1Mbps network speeds.
- Auto rate fallback in case of obstacles or interferences.
- Provide 64/128-bit WEP Data Encryption security and the latest WPA Security for protected wireless data transmissions.
- Includes Hawking's Wireless Hot Spot Locator Software
- Supports Web-based configuration.

1.3 Specifications

- Standards: IEEE 802.11g/b (Wireless), IEEE 802.3 (Wired)
- Data Rate: 54/48/36/24/18/12/11/5.5/2/1Mbps auto fallback
- Security: 64/128-bit WEP Data Encryption, WPA
- Frequency Band: 2.400~2.4835GHz (Industrial Scientific Medical)

Band)

- Antenna: External detachable dipole antenna (with RP-SMA connector)
- Connectors: 10/100Mbps RJ-45 x 1
- Power: 12VDC, 0.5A
- Transmit Power: 16dBm (Typical)
- LEDs: Power, LAN Link/Activity, Wireless Activity
- Dimension: 30(H) x 127(W) x 87(D) mm
- Temperature:
 - ◆ Operating: 32~131°F (0~55°C)
 - ◆ Storage: -4~158°F(-20~70°C)
- Humidity: 10-90% (Noncondensing)

1.4 Physical Description

Front Panel

Located on the HWUR54G's front panel are LED status lights that inform you of the unit's current status. Below is an explanation of each LED.

Overview

PWR, LAN, and WLAN LEDs

- A solid light on the PWR LED indicates that the unit is on and operational.
- A solid light on the LAN LED indicates a successful connection between the Wireless Range Extender and a wired Ethernet network or PC.
- A blinking light on the WLAN LED indicates a successful and active data transfer connection between the Wireless Range Extender and a wireless network.



Antenna

- Adjustable for optimal reception.
- Removeable for upgrade to Hawking Hi-Gain Antenna line products.

Power Port

- Connects to supplied AC Adapter



"Reset" Button

- Pressing the reset button with a pencil tip (for less than 5 seconds) will reboot the device, keeping your original configurations intact.
- If problems continue to persist or you have forgotten your password, pressing the reset button for more than 5 seconds will reset the device back to its factory default settings.

10/100M Ethernet Port

- Connects to local network devices such as a PC or Laptop for Setup Purposes.

Front LED Panel

LED	Color	Status	Description
Power	Green	Lit	Power is supplied.
		Off	No Power.
Wireless Activity	Green	Flash	Antenna is transmitting or receiving data.
		Off	Antenna is not transmitting or receiving data.
LAN Link/Activity	Green	On	A valid link is established.
		Flash	It is transmitting or receiving data.
		Off	No link is established.

Back Panel Connectors

1 Antenna Connector

This round connection has a standard Reverse SMA connector where any Reverse SMA-compatible antenna can be connected to the Access Point.

2 DC Adapter Port

Insert the power jack of the power adapter into this port.

3 LAN Port

The Access Point's LAN port is where you connect to your network or local computers.

4 Reset

The Reset button allows you to do one of two things.

- 1) If problems occur with your Access Point, pressing the reset button with a pencil tip (for less than 5 seconds) will reboot the device,

keeping your original configurations intact.

2) If problems continue to persist or you have forgotten your password, pressing the reset button for more than 5 seconds will reset the device back to its factory default settings.

(Warning: your original configurations will be replaced with the factory default settings).

Chapter 2: Plan Your Wireless Network

Before you begin configuring your HWUR54G Wireless Range Extender, it is important that you determine where it fits within your wireless network. A wireless network consists of computers (Desktops or Laptops) with wireless network adapters installed. Computers within a wireless network are connected with a local wireless access point that handles all wireless communications between the computers and the internet.

The HWUR54G Wireless Range Extender must be placed within your wireless network. If it is placed too far from your wireless network it will not receive a strong enough signal to repeat properly. Ensure that the selected placement of the Wireless Range Extender is not too far from the original Access Point. (Indoor: approx 50 – 150 feet)

This diagram may help you determine how the Wireless Range Extender works within a wireless network.

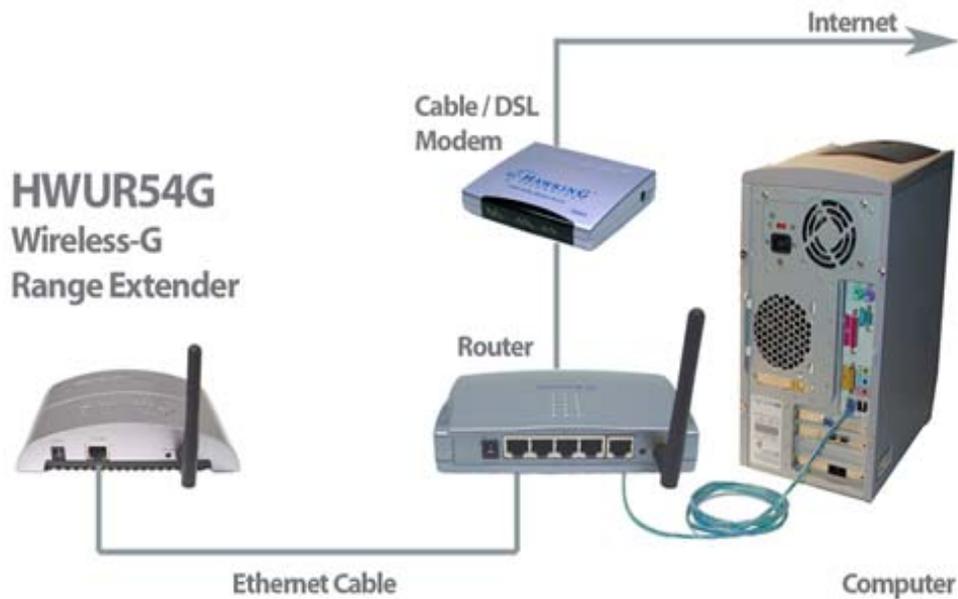


Chapter 3: Connecting the Range Extender

- 1) Remove the HWUR54G and the power adapter from your package. Plug one end of the power into an available power outlet and the other into the "DC 5V" on the Range Extender.

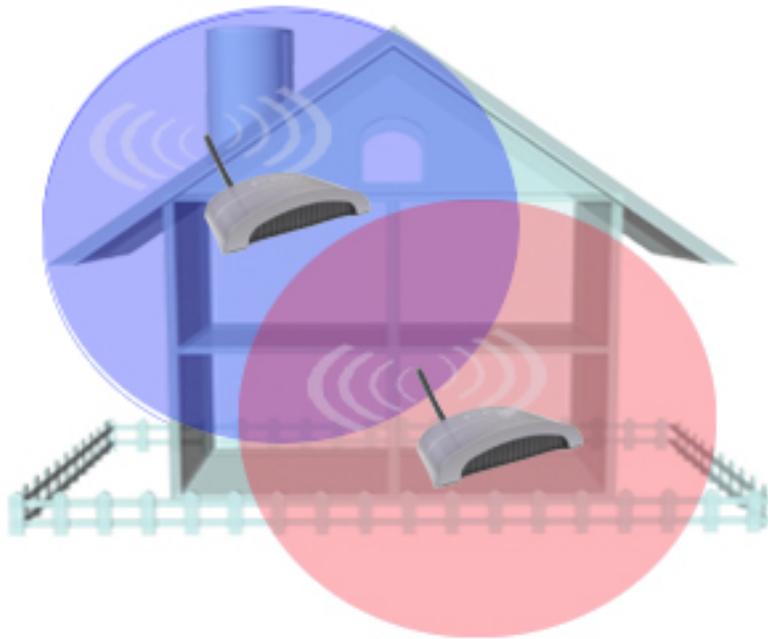


- 2) Connect one end of the included Ethernet cable to an available LAN port on your Router. Plug the other end of the Ethernet cable into the LAN port of the HWUR54G Wireless-G Range Extender. Your setup should look similar to the diagram shown below.



You may also connect the HWUR54G to an open LAN port on your network. After you have finished configuring your Range Extender (the following steps will help you configure your Range Extender) you must disconnect it from your network or PC and place it in any location that requires extended wireless coverage (must still be in wireless proximity of your original wireless network):

Original Wireless Network Radius



***Extended Network Radius
Using the Hawking Range Extender***

Chapter 4: Configuring the Range Extender

4-1 Ensure that your Range Extender is powered on and correctly connected to your PC.

(Note: If you are a more advanced user or you are using a Macintosh computer and wish to skip the Setup Wizard you may do so and use the default IP of the Range Extender to access the Web Based User Interface. The Default IP Address and Login is

(SKIP TO PG 15 AFTER YOU HAVE LOGGED IN) :

<http://192.168.1.235>

User Name: admin Password: 1234

-Power On your PC.

-Use the included setup CD and insert it into your CD-Rom drive once your computer has completely booted up.

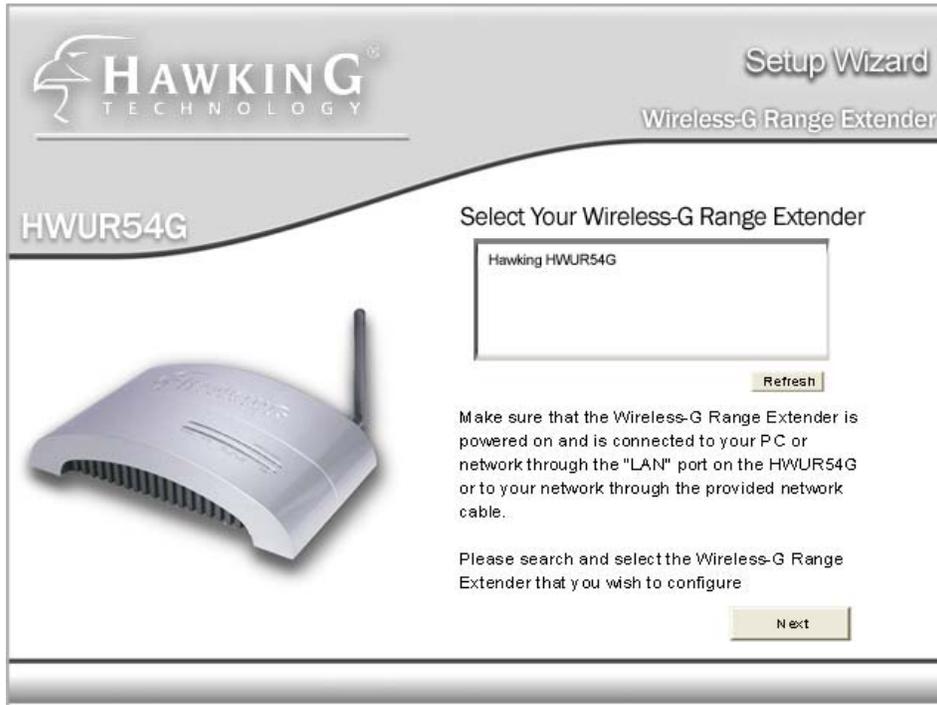
-A menu page should automatically load:



(If the page does not load Click on the START button on the bottom left hand corner of your screen and then select RUN. In the blank field type in D:\setupwizard\hawking.exe to execute to autoload page.)

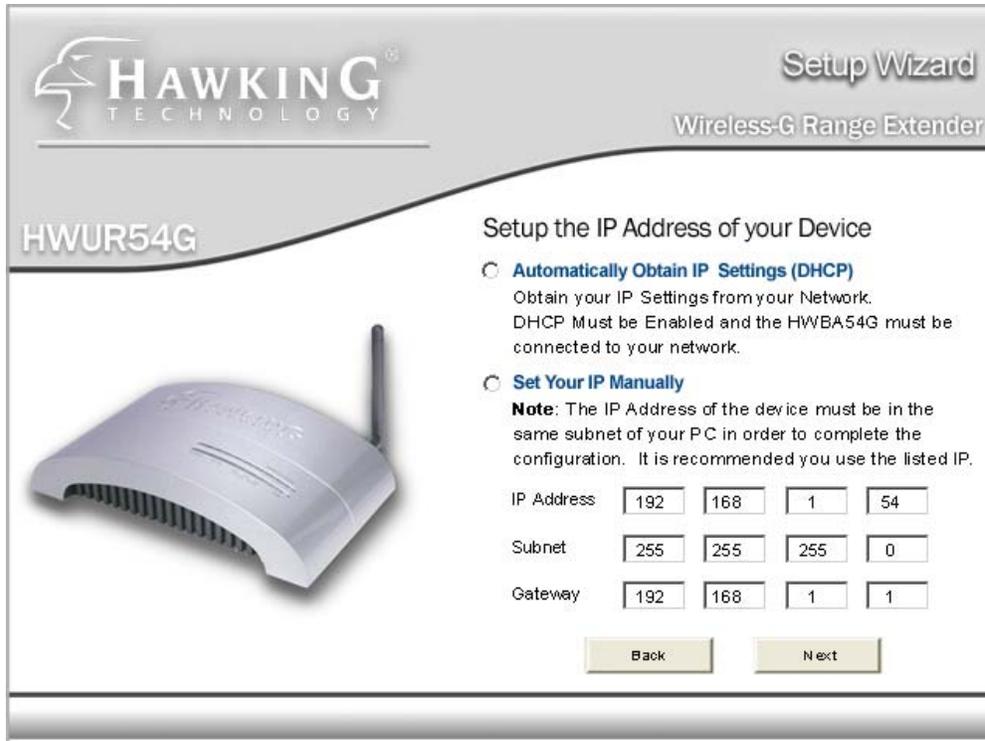
-In the Setup Menu select SETUP WIZARD using your mouse.

4-2 Selecting the Device



-In the empty field you should see the name of the Hawking Range Extender. If you do not, click the REFRESH button to rescan for the Extender. If your Range Extender is not detected, please check to ensure that your device is properly connected to the PC or network.

4-3 Assign an IP Address to the Range Extender



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Setup Wizard
Wireless-G Range Extender

HWUR54G

Setup the IP Address of your Device

Automatically Obtain IP Settings (DHCP)
Obtain your IP Settings from your Network.
DHCP Must be Enabled and the HWUR54G must be connected to your network.

Set Your IP Manually
Note: The IP Address of the device must be in the same subnet of your PC in order to complete the configuration. It is recommended you use the listed IP.

IP Address

Subnet

Gateway

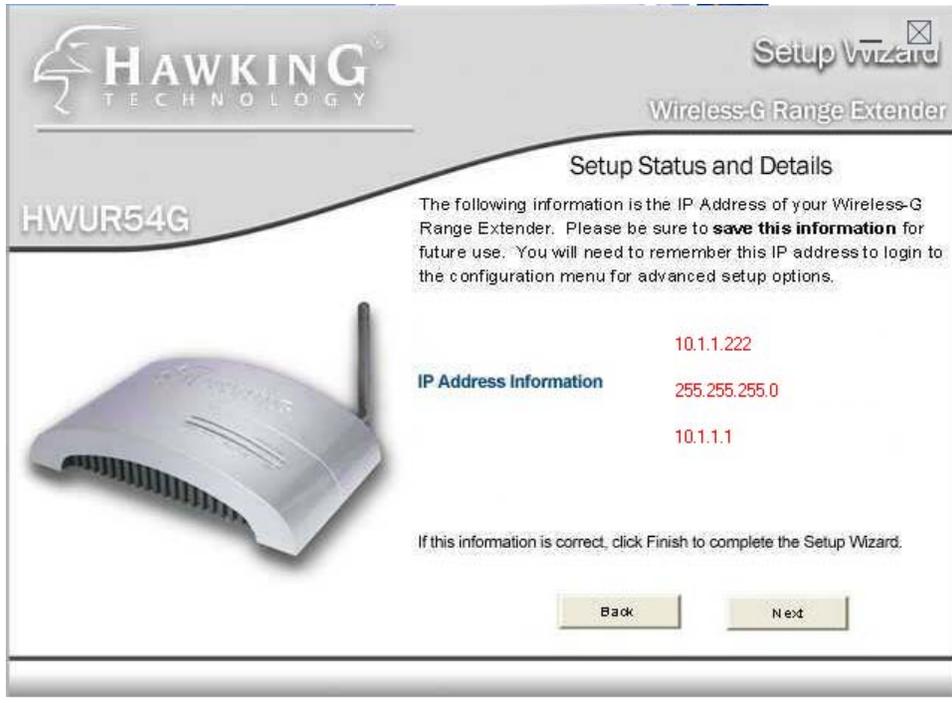
This section allows you to define the specific IP address of your Wireless Range Extender. Please be sure to save the IP address you choose for your Range Extender for future use. You can assign an IP to your Wireless Range Extender using two options:

1: If your network uses DHCP and automatically assigns an IP address to new devices, please select this option (recommended)

2: If your network uses STATIC IP address assignments, select the MANUAL option and enter in your specific IP address.

Select NEXT when you have completed this step.

4-4 Details and Status



This page will display the IP address information of your Wireless Range Extender. Write this information down and save it in a safe place.

You will need it to make any adjustments to the configuration settings in the future.

Click NEXT and the Wizard will load the Web Based Configuration panel.

4-5 SETUP MENU

Before you use the Web Based Configuration Panel you must enter the default login information.



Connect to 10.1.1.222

User name:

Password:

Remember my password

OK Cancel

User Name: admin
Password: 1234

You can change the login information in the ADMIN menu of the Configuration Panel.



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Setup | Status | Admin | LAN

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WIRELESS-G RANGE EXTENDER

SETUP

CONFIGURE THE WIRELESS-G NETWORK RANGE EXTENDER



NOTE Please note that all repeater settings are duplicated from Access Point settings. If you need to make changes please do so below. If these changes are applied, they will also be duplicated when you choose to activate the Access Point.

SSID of Original AP MUST MATCH THE EXACT SSID OF THE ORIGINAL ACCESS POINT

Channel MUST MATCH THE CHANNEL OF THE ORIGINAL ACCESS POINT

MODE 802.11b 802.11g Mixed

SSID of Extender ANY SSID MAY BE CHOSEN FOR THIS FIELD

Broadcast SSID Disable Enable

Security Disable WEP

Advanced Settings

Access Filter

Parameter	Description
Original SSID	You must enter the SSID of the wireless access point that you wish to repeater.
SSID of Extender	This is the name of the new extended wireless network. All computers that connect through the Range Extender must use this SSID.
Mode	<p>802.11b mode: allows for data transfer rates up to 11Mbps</p> <p>802.11g mode: allows for data transfer rates up to 54Mbps</p> <p>Mixed mode: provides the best performance for 11g transmission when multiple standards/client cards are present in the network.</p>
Broadcast SSID	<p>The wireless ID of the Range Extender can be hidden from all wireless computers searching for local wireless networks.</p> <p>Enabling this will make the network ID public. Disabling will hide this information from public users.</p>
Channel	Select the appropriate channel from the list provided to correspond with your network settings. Your channel number MUST match the channel of the original Access Point that you are extending.
Security	<p>Disable: Disable the security function.</p> <p>WEP: WEP is an authentication algorithm, which protects authorized Wireless LAN users against eavesdropping. The Authentication type and WEP key of wireless stations must be the same with the Access Point. This Access Point supports 64/128-bit WEP Encryption function. With this function, your data will be transmitted over the wireless network securely.</p> <p># You can refer to the detail setting from chapter 3.2.6.</p>
Advanced setting	It provides more powerful features for specific configurations of the Range Extender.
Access Filter	The Range Extender allows you to provide a Filter List of MAC addresses that are allowed to associate with the Range Extender.

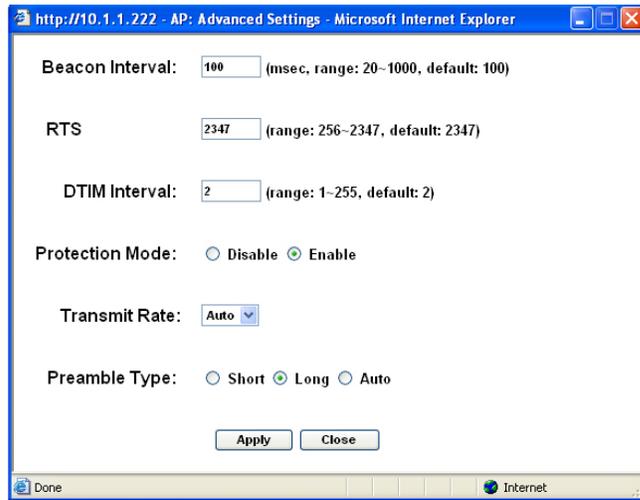
Click **Apply** button at the bottom of the screen to save the above configurations. You can now configure other advance sections or start using the Access Point.

4-6 SECURITY SETTINGS

Parameter	Description
WEP Length	<p>WEP-64: input 10-digit Hex values (in the “A-F”, “a-f” and “0-9” range) or 5-digit ASCII character as the encryption keys.</p> <p>WEP-128: input 26-digit Hex values (in the “A-F”, “a-f” and “0-9” range) or 13-digit ASCII characters as the encryption keys.</p>
Mode	<p>HEX: input Hex values (in the “A-F”, “a-f” and “0-9” range)</p> <p>ASCII: input alphanumeric format.</p>
Passphrase	Enter passphrase and click “Generate”, then the access point will automatically generate WEP keys by the passphrase for you.
Key 1 - Key 4	To entry 10 Hex digits for 64 bit key, 26 Hex digits for 128 bit key.
Default TX Key	Select the WEP key used to encrypt data transmitted in the wireless network.

Click **Apply** button at the bottom of the screen to save the above configurations. You can now configure other advance sections or start using the Access Point.

4-7 ADVANCED SETTINGS



Parameter	Description
Beacon Interval (20-1000)	The period of time that this access point broadcast a beacon. Beacon is used to synchronize the wireless network.
RTS Threshold (256-2432)	When the packet size is smaller the RTS threshold, the access point will not use the RTS/CTS mechanism to send this packet.
DTIM Period (1-255)	This is the interval of the Delivery Traffic Indication Message (DTIM). A DTIM field is a countdown field informing stations of the next window for listening to broadcast and multicast messages. When the Access Point has buffered broadcast or multicast messages for associated stations, it sends the next DTIM with a DTIM Interval value. Stations for the Access Point hear the beacons and awaken to receive the broadcast and multicast messages.
Protection Mode	It provides best performance for 11g transmission when you enable it.
Transmit Rate	When you enable the station mode selection to “802.11b” and it allows you to select the speed of 1-11Mbps. When you enable the station mode selection to “802.11g” and it allows you to select the speed of 1-54Mbps.
Preamble Type	Preamble type defines the length of preamble block in the frames during the wireless communication.

Auto select: It will auto switch to the more suitable method.

Short: It is suitable for high traffic wireless network

Long: It can provide more reliable communication

Click **Apply** button at the bottom of the screen to save the above configurations. You can now configure other advance sections or start using the Access Point.

4-8 ACCESS FILTERING

The HWUR54G allows you to provide a Filter List of MAC addresses that are allowed/denied access associated with this Extender.

MAC Filtering Enable Disable

Filter Mode Only **deny** PCs with MAC listed below to access this device
 Only **allow** PCs with MAC listed below to access this device

Filter List

1	00:00:00:00:00:00	17	00:00:00:00:00:00
2	00:00:00:00:00:00	18	00:00:00:00:00:00
3	00:00:00:00:00:00	19	00:00:00:00:00:00
4	00:00:00:00:00:00	20	00:00:00:00:00:00
5	00:00:00:00:00:00	21	00:00:00:00:00:00
6	00:00:00:00:00:00	22	00:00:00:00:00:00
7	00:00:00:00:00:00	23	00:00:00:00:00:00
8	00:00:00:00:00:00	24	00:00:00:00:00:00
9	00:00:00:00:00:00	25	00:00:00:00:00:00
10	00:00:00:00:00:00	26	00:00:00:00:00:00
11	00:00:00:00:00:00	27	00:00:00:00:00:00
12	00:00:00:00:00:00	28	00:00:00:00:00:00
13	00:00:00:00:00:00	29	00:00:00:00:00:00
14	00:00:00:00:00:00	30	00:00:00:00:00:00
15	00:00:00:00:00:00	31	00:00:00:00:00:00
16	00:00:00:00:00:00	32	00:00:00:00:00:00

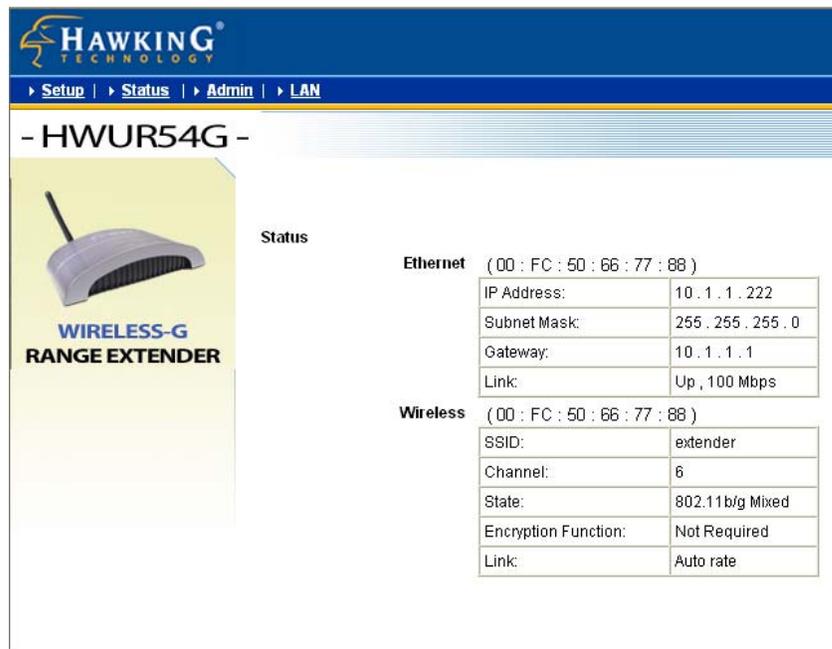
Apply Close

Parameter	Description
MAC Filtering	You can enable or disable the MAC Filtering function.
Filter Mode	If you select “Only deny PCs with MAC listed below to access this device”, then all the PCs in the list will be denied to access and all other PCs will be allowed to access. If you select “Only allow PCs with MAC listed below to access this device”, then all PCs in the list will be allowed to access but all other PCs will be denied to access.
Filter List	Enter the MAC address of PC that will be managed by the MAC Filtering rule.

Click **Apply** button at the bottom of the screen to save the above configurations. You can now configure other advance sections or start using the Access Point.

Chapter 5: STATUS SCREEN

The Status Screen displays the current Ethernet and Wireless settings of the Wireless Range Extender.



WIRELESS-G RANGE EXTENDER

Status

Ethernet (00 : FC : 50 : 66 : 77 : 88)

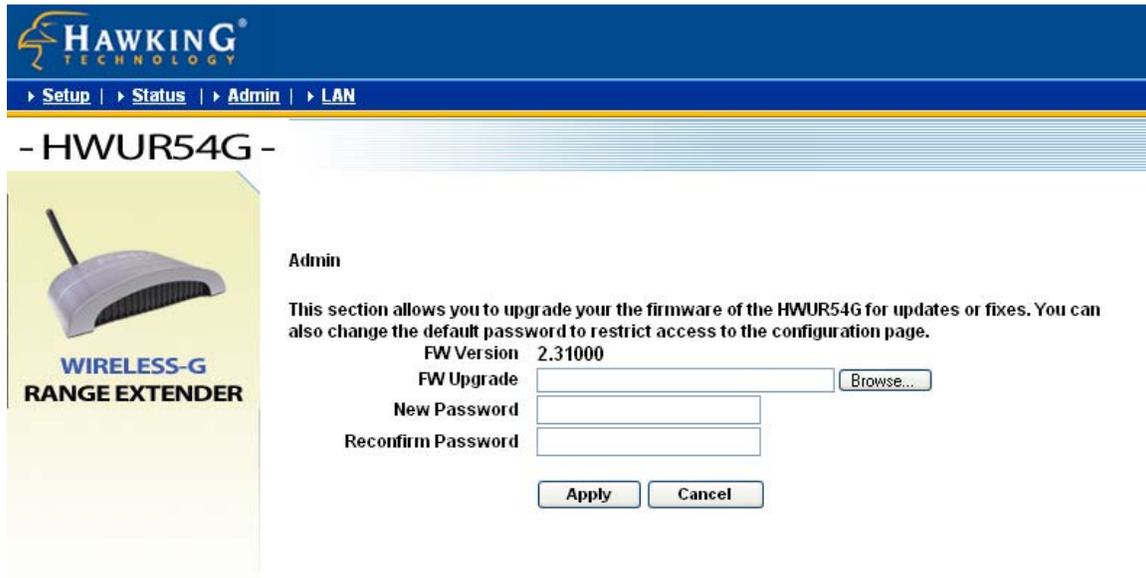
IP Address:	10 . 1 . 1 . 222
Subnet Mask:	255 . 255 . 255 . 0
Gateway:	10 . 1 . 1 . 1
Link:	Up , 100 Mbps

Wireless (00 : FC : 50 : 66 : 77 : 88)

SSID:	extender
Channel:	6
State:	802.11b/g Mixed
Encryption Function:	Not Required
Link:	Auto rate

Parameter	Description
Ethernet	It shows the default IP address, Subnet Mask, Gateway and Link status information.
Wireless	It shows the current Wireless information.

Chapter 6: ADMIN SCREEN



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WIRELESS-G RANGE EXTENDER

Admin

This section allows you to upgrade your the firmware of the HWUR54G for updates or fixes. You can also change the default password to restrict access to the configuration page.

FW Version 2.31000

FW Upgrade

New Password

Reconfirm Password

Parameter	Description
FW Version	It shows current FW version.
FW Upgrade	This tool allows you to upgrade the Access Point's system firmware. To upgrade the firmware of your Access Point, you need to download the firmware file to your local hard disk, and enter that file name and path in the appropriate field on this page. You can also use the Browse button to find the firmware file on your PC. Please reset the Access Point when the upgrade process is complete.
New Password	Enter the password (up to 32-digit alphanumeric string) you want to login to the Access Point. Note that the password is case-sensitive.
Reconfirm Password	Reconfirm the password (up to 32-digit alphanumeric string) you want to login to the Access Point. Note that the password is case-sensitive.

Click **Apply** button at the bottom of the screen to save the above configurations. You can now configure other advance sections or start using the Access Point.

Chapter 7: LAN SCREEN

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WIRELESS-G RANGE EXTENDER

Device Name Range Extender

Automatic IP **Important**

Fixed IP

Specify IP 10 . 1 . 1 . 222

Subnet Mask 255 . 255 . 255 . 0

Gateway 10 . 1 . 1 . 1

Apply Cancel

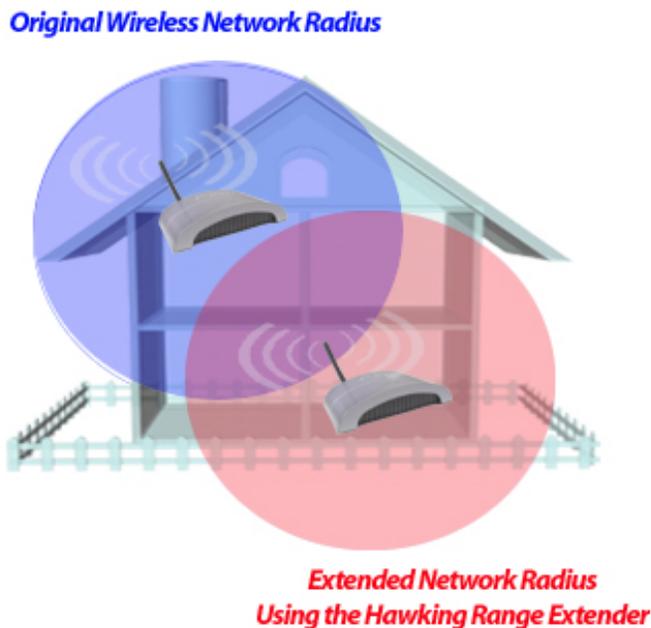
Parameter	Description
Device Name	It shows current name of the device.
Automatic IP	Selecting this option is not advised unless you have direct access to the device that provides the IP address.
Fixed IP	Specify IP: Designate the Access Point's IP Address. This IP Address should be unique in your network. The default IP Address is 192.168.2.1 . Subnet Mask: Specify a Subnet Mask for your LAN segment. Gateway: Specify the default gateway IP of this Access Point.

Click **Apply** button at the bottom of the screen to save the above configurations. You can now configure other advance sections or start using the Access Point.

Chapter 8: FINDING THE RIGHT LOCATION – PLACING THE WIRELESS RANGE EXTENDER WITHIN YOUR NETWORK

1) After you have completely configured your Range Extender you can disconnect the Ethernet cable that connects the Extender to your network or PC for configuration.

2) Take the Range Extender and Power Adapter and place the Extender in a location half way between your original Access Point and the area that you are extending your wireless coverage to. See the image below for more details:



3) Once you have located a good location, plug the power adapter into an available power outlet and view the LEDs on the Range Extender. If the Range Extender is working the WLAN light should be blinking repeatedly and the PWR LED should remain on constantly.

4) Test the Range Extender by connecting to it wirelessly with a wireless enabled computer. Give the computer 15 seconds to obtain information from the Range Extender after associating to the Range Extender's SSID. Open your web browser and enter www.hawkingtech.com into the web address bar. If the page loads your Wireless Range Extender is working correctly. If not please check the troubleshooting section or reconfigure your Wireless Range Extender.

Chapter 9: TROUBLESHOOTING

This chapter provides solutions to problems usually encountered during the installation and operation of the Access Point.

1. How do I manually find the PC's IP and MAC Address?

- 1) In Windows, open the Command Prompt program
- 2) Type **Ipconfig /all** and **Enter**
 - 1 Your PC's IP address is the one entitled **IP address**
 - 2 Your PC's MAC Address is the one entitled **Physical Address**

2. What is BSS ID?

A group of wireless stations and an Access Point compose a Basic Service Set (BSS). Computers in a BSS must be configured with the same BSSID.

3. What is ESSID?

An Infrastructure configuration could also support roaming capability for mobile workers. More than one BSS can be configured as an Extended Service Set (ESS). Users within an ESS could roam freely between BSSs while maintaining a continuous connection to the wireless network stations and the Wireless LAN Access Points.

4. Can data be intercepted while transmitting through the air?

WLAN features two-fold protection in security. On the hardware side, as with Direct Sequence Spread Spectrum technology, it has the inherent scrambling security feature. On the software side, the WLAN series offers the encryption function (WEP) to enhance security and access control.

5. What is WEP?

WEP stands for Wired Equivalent Privacy, a data privacy mechanism based on a 64(40)-bit shared key algorithm.

6. What is a MAC Address?

The Media Access Control (MAC) address is a unique number assigned by the manufacturer to any Ethernet networking device, such as a network adapter, that allows the network to identify it at the hardware level. For all practical purposes, this number is usually permanent. Unlike IP addresses which can change every time a computer logs on to the network, the MAC address of a device stays the same, making it a valuable identifier for the network.

7. I Can't Pull up the Web Menu Screen?

In order to pull up the Web Based Configuration Menu your computer must be in the same IP subnet as your Range Extender. For example, if your PC's IP configuration is the following:

IP: 192.168.0.5 Subnet 255.255.255.0 Gateway: 192.168.0.1

Then your Range Extender LAN IP address must be:

IP: 192.168.0.? (any # except 1 and 5) Subnet 255.255.255.0

Gateway: 192.168.0.1

Once these values match you should be able to pull up the Web Menu.

8. I Can't Connect to the Wireless Repeater or the Internet

Make sure that all your settings are correct on the Range Extender.

Remember that the Original SSID must match the SSID of your original network. The channel number of the extender must also match that of your original network. For example, if your original network had the following settings:

SSID: HawkingAP

LAN IP: 192.168.1.2

Channel: 6

SUBNET: 255.255.255.0

Then the settings of your Range Extender must be:

Original SSID: HawkingAP

Channel: 6

SSID of Range Extender: (any SSID other than HawkingAP)

LAN IP: 192.168.1.x (any number other than 2)

SUBNET: 255.255.255.0

GATEWAY: 192.168.1.2

After you have matched the settings check if you can connect to the internet through the Wireless Range Extender. If you still cannot access the internet please contact our technical support department using the number below.

If you have any further questions please contact our Toll Free Technical Support department at: 800-756-7832 or email

Techsupport@hawkingtech.com

Thank you for purchasing the Hawking Wireless-G Range Extender.