



HRGZ1

WIRELESS HOME AUTOMATION GATEWAY

website www.hawkingtech.com
e-mail techsupport@hawkingtech.com

© COPYRIGHT 2007 HAWKING TECHNOLOGIES, INC. ALL RIGHTS RESERVED.

USER'S MANUAL ►►

Limited Warranty

Hawking Technology guarantees that every HRGZ1 HomeRemote Gateway is free from physical defects in material and workmanship under normal use for two (1) 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.

IN NO EVEN SHALL HAWKING TECHNOLOGY'S LIABILITY EXCEED THE PRICE PAID FOR THE PRODUCT FROM DIRECT, INDIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THE PRODUCT, ITS ACCOMPANYING SOFTWARE OR ITS DOCUMENTATION.

Hawking Technology makes no warranty or representation, expressed, implied or statutory, with respect to its products or the contents or use of this documentation and all accompanying software, and specifically disclaims its quality, performance, merchantability, or fitness for any particular purpose. Hawking Technology reserves the right to revise or updates its products, software, or documentation without obligation to notify any individual or entity. Please direct all inquiries to: techsupport@hawkingtech.com

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 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:

1. Reorient or relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
4. Consult the dealer or an experienced radio technician for help.

FCC Caution

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

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.

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

Table of Contents

Table of Contents	3
1 - Introduction	5
2 - Product Contents.....	5
3 - What is Z-Wave Technology?.....	6
4 - System Requirements	6
5 - System Diagram	7
6 - HRGZ1 – HomeRemote Wireless Internet Gateway Overview.....	8
6.1 - Gateway Front Panel (LEDs)	8
6.2 - Gateway Back Panel.....	9
7 - HomeRemote Handheld Remote Control.....	10
8 - First Time Setup	11
9 - HomeRemote Setup Wizard Walk-Through	12
9.1 - Introduction	12
9.2 - Hardware Setup	13
9.3 - Locate the Gateway	13
9.4 - Network Setup	13
9.5 - Password Setup.....	14
9.6 - Software Update	14
9.7 - Clock Setup.....	14
9.8 - Wireless Home Automation Setup Overview	15
9.9 - Home Layout Setup.....	15
9.10 - Adding Modules and Devices.....	15
9.11 - Transfer Settings to the Gateway.....	16
9.12 - Customizing / Naming Modules and Devices	16
9.13 - Notification Setup.....	16
9.14 - Notification Setup / User Accounts	17
9.15 - Custom Web-Address.....	17
9.16 - Internet Access Setup (Router Configuration)	17
9.17 - Internet Access Setup (Manual Setup)	18
9.18 - Cell Link Setup.....	18
9.19 - TZO DDNS Service.....	18
9.20 - Setup Complete.....	19
10 - Setting Up the Handheld Remote Control.....	20
11 - Using other Z-Wave Remote Controls	21
12 - How to use the HomeRemote Web-Based Interface.....	22
12.1 - Home Status Page.....	22
12.2 - Control Page	24
12.3 - Device Management	25
12.3.1 - Setting up Scenes.....	26
12.3.2 - Alerts and Notifications.....	26
12.3.3 - Linking Devices.....	27
12.4 - Recent Activity	28
12.5 - Setup Page	29
12.5.1 - Clock Setup.....	29
12.5.2 - Creating Rooms / Areas.....	30

12.5.3 - Add / Edit or Remove Devices	30
12.5.4 - Notification Setup.....	32
12.5.5 - Adding Network Cameras	34
12.5.6 - Network Settings / IP Address / Login Setup.....	35
12.5.7 - Firmware Upgrades	36
12.5.8 - Saving and Loading Profiles.....	37
12.5.9 - Resetting the Gateway	38
12.5.10 - TZO/DDNS Configurations	38
13 - Using the HomeRemote Cell Link Service	39
13.1 - Subscription Requirements.....	39
13.2 - Setting up Cell Link (First Time Use).....	39
13.3 - Software Security	40
13.4 - Navigating the Cell Link Customer Web Portal.....	40
13.5 - Launching Cell Link from your Cell Phone	41
13.6 - Activate your Phone and Software	42
13.7 - Navigating Menus and Executing Commands with your Cell Phone	42
13.7.1 - Viewing Cameras using Cell Link.....	43
13.7.2 - Other Devices (Thermostats, Window Shades etc...)	44
13.8 - Cell Link Options Menu and Navigation Tips	45
13.8.1 - Set Cell Link PIN / Disable PIN.....	45
13.8.2 - Reset Cell Link	45
13.8.3 - BlackBerry® Connection Options and Select Button	45
13.8.4 - Connection Options	46
13.8.5 - Select Button.....	46
13.8.6 - Demo/Active Mode	46
13.8.7 - Help	46
13.8.8 - About	46
13.9 - Exiting Cell Link	47
13.10 - Customer Support.....	47
14 - HomeRemote Accessories (Compatible Z-Wave Devices).....	47
14.1 - Lighting	47
14.2 - Electrical Appliances.....	48
14.3 - Climate Control	49
14.4 - Window Shades	49
14.5 - Security.....	49
14.6 - Access Control.....	50
14.7 - Remote Controls.....	50
15 - Frequently Asked Questions.....	51
15.1 - General Questions.....	51
15.2 - Remote Control and Z-Wave Modules.....	51
15.3 - HomeRemote Gateway Installation.....	53
15.4 - HomeRemote Gateway Web Interface	54
15.5 - HomeRemote Cell Link Interface and Web Portal.....	55
16 - HomeRemote Gateway Specifications and Ranges.....	57

1 - Introduction

Thank you for your purchase of the Hawking Technologies HomeRemote™ Home Automation / Control Gateway. This manual will give you detailed instructions on all you need to know to setup, maintain and expand your HomeRemote System. With your HomeRemote Gateway and handheld Remote Control you will be able to control, monitor and secure your home from anywhere in the world. The HomeRemote Gateway connects your Z-Wave™ home accessories to the internet for easy control via a cellular phone or the HomeRemote web-based interface.

With the HomeRemote System you will be able to:

- Customize the HomeRemote interface to match the exact layout of your home
- Customize the names of your rooms and devices
- Control and monitor lights, windows, doors, window shades, air conditioning, electrical appliances and much, much more...
- Keep an eye on your kids and pets while away
- Secure your business and ensure that no lights are on when not needed
- Secure your home while away on vacation
- Schedule lights and appliances to activate on a set interval
- Be alerted when any activity is detected within your home via cell phone text message or E-mail
- Set scenes for the control of multiple devices with the touch of a button (i.e. for romantic mood setting or movie watching lighting schemes)

The possibilities of applications for the HomeRemote system are endless. Customize one for your lifestyle today.

2 - Product Contents

The purchase of your HRGZ1 HomeRemote Wireless Home Automation Gateway includes the following units. Please take the time now to check that your packaging is not missing any items.

- 1 x HomeRemote Gateway
- 1 x HomeRemote Handheld Remote Control (Batteries not included)
- 1 x Ethernet Cable
- 1 x Power Adapter
- 1 x Installation CD
- 1 x Home Planning Guide / Remote Control Quick Reference Guide
- 1 x Getting Started Installation Guide

3 - What is Z-Wave Technology?

Z-Wave is an award-winning home control wireless standard. Using fail-safe wireless mesh technology, Z-Wave provides reliable and secure connections for all Z-Wave devices within the home. The HomeRemote System uses Z-Wave technology to communicate with home control devices and modules. To ensure that the Home Control devices you purchase are compatible with the HomeRemote System, make sure to look for the Z-Wave logo on the module plastic or packaging.

Z-Wave is a next-generation wireless "ecosystem" that lets all your home electronics talk to each other, and to you, via remote control and the HomeRemote Gateway. It uses simple, reliable, low-power radio waves that easily travel through walls, floors and cabinets. Z-Wave functionality can be added to almost any electronic device in your house, even devices that you wouldn't ordinarily think of as "intelligent," such as appliances, window shades, thermostats and home lighting.

Z-Wave unifies all your home electronics into an integrated wireless network, with no complicated programming and no new cables to run. Any Z-Wave enabled device can be effortlessly added to this network, and many non-Z-Wave devices can be made compatible by simply plugging them into a Z-Wave accessory module. In seconds, your device gets joined to the network and can communicate wirelessly with other Z-Wave modules and controllers. Because Z-Wave operates on its own unique frequency, it will not interfere with other wireless equipment in your home, like cordless telephones and Wi-Fi routers. And because Z-Wave is a modular system, you can build your network one device at a time, one room at a time, or the whole house at once. The choice is yours, and the possibilities are nearly endless. Best of all, Z-Wave technology is extremely affordable, giving you powerful home control that you can integrate yourself in moments, at a fraction of the cost of conventional smart home technologies.

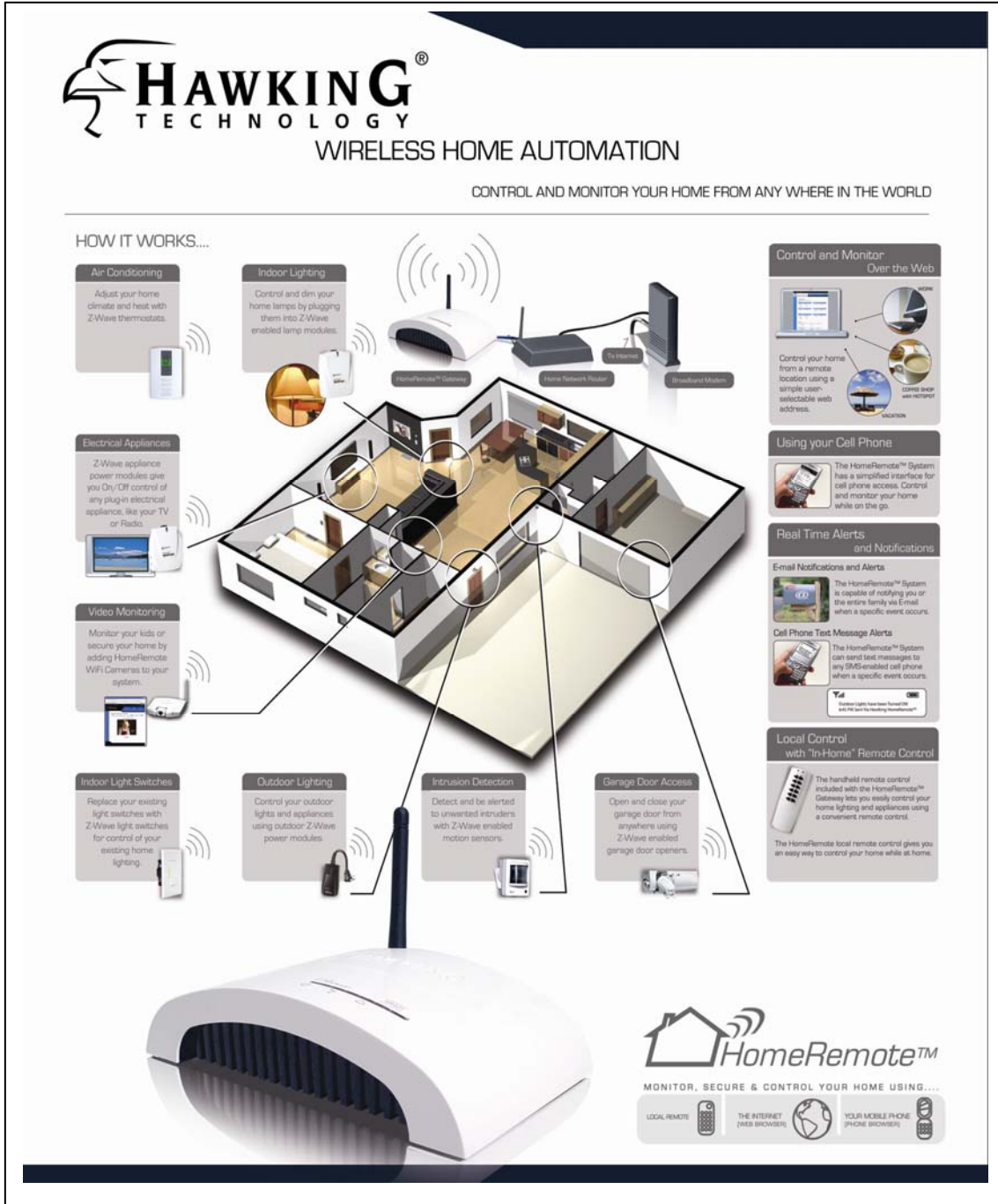
4 - System Requirements

Before you begin the installation you will need to make sure you have the following items:

- Broadband Internet Service (such as Cable Modem or DSL)
- Home Network Router with Available LAN port (802.11b or 802.11g Wireless Router required to connect HomeRemote Wireless Video Camera wirelessly)
- Windows 98SE, 2K, ME or XP or Macintosh OSX 10.2 or later computer with Internet access
- Available CD-Rom or DVD-Rom drive (Setup CD)
- Any Z-Wave Home Automation modules and devices you wish to add to your system
- 4 x AAA Batteries for the Handheld Remote Control
- (Optional) If you plan to use the Cell Link service you will need to have an Internet enabled cellular phone. (If you have not subscribed to a data plan you may be charged per data usage by your cellular carrier)

5 - System Diagram

The HomeRemote System gives you remote control of your home from anywhere in the world. Using Z-Wave technology, the HomeRemote System is customizable to your specific needs and lifestyle.






6 - HRGZ1 – HomeRemote Wireless Internet Gateway Overview

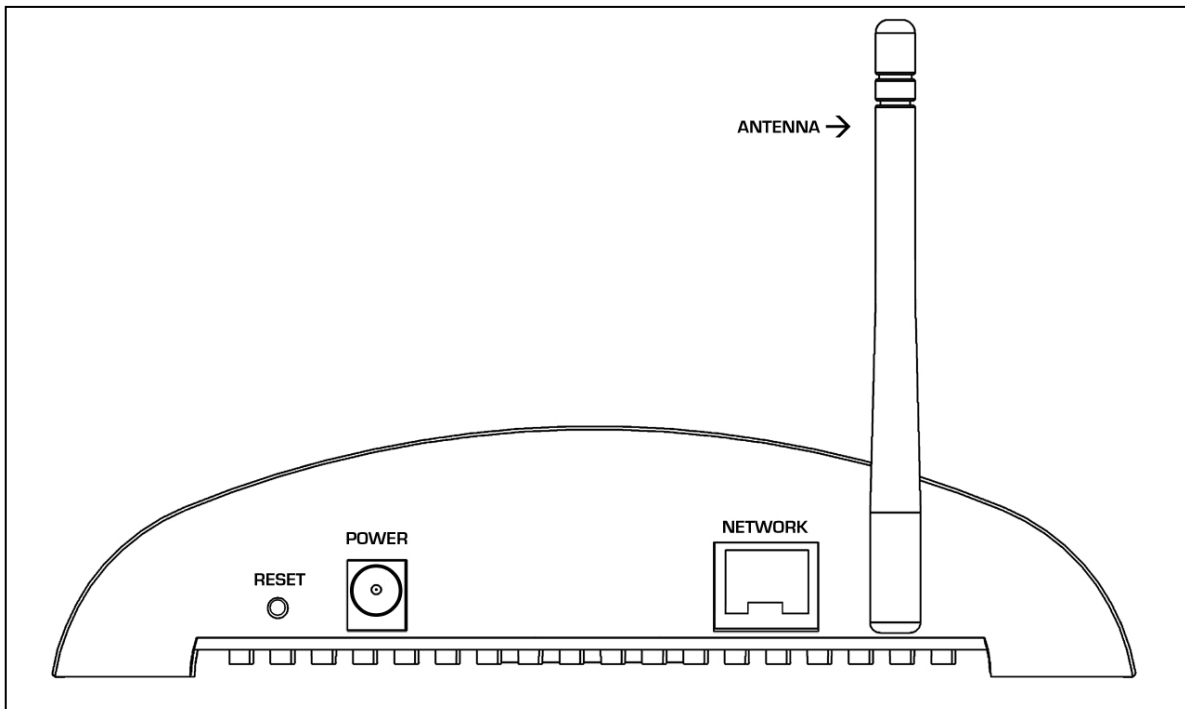
The HomeRemote Wireless Internet Gateway acts as the brain of your home control system. It connects your home to the internet and manages all devices within your system.

6.1 - Gateway Front Panel (LEDs)



-  Power LED – Solid blue light when the power adapter is attached and working.
-  Z-Wave Activity LED – Blinks when activity between home control devices is initiated.
-  Home Network LED – Solid light when a link is established between your home network and the HomeRemote Gateway.

6.2 - Gateway Back Panel

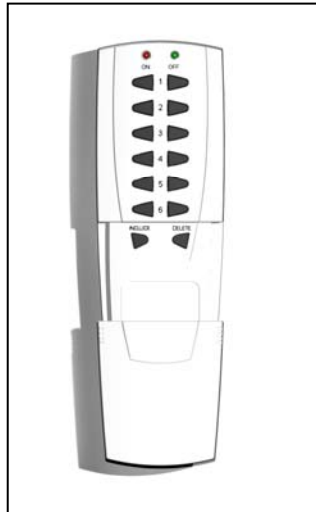


- RESET** – The reset button can reboot (when pressed for 1 second) your HomeRemote Gateway when an error occurs or your HomeRemote Gateway stops functioning for some reason. A small pin or paper clip may be required to access the recessed button. When held for over 10 seconds, the Gateway will reset itself to the original default settings and all prior configurations will be lost.
- POWER** – The power jack is used for connecting your power adapter to.
- NETWORK** – The port is for connecting your HomeRemote Gateway to an available LAN port on your home router. The Network port accepts standard RJ-45 Ethernet cabling.
- ANTENNA** – The antenna on the HomeRemote Gateway is a non-removable antenna used for sending out wireless commands to your Z-Wave home control modules.

7 - HomeRemote Handheld Remote Control

The Handheld Remote Control is used to add and remove Z-Wave devices from your home control system. The remote is also used for convenient control your home appliances and lights while at home.

Front Panel



Back Panel



The remote control is organized by 'Channels' which are the buttons ranging from 1 through 6 and each Channel has a single ON button and OFF button. A 'Channel' can be associated with a single wireless device or multiple devices. By pushing the ON or OFF button will turn ON all devices in the Channel or OFF all devices in the Channel. The 'Include' button is used for configuring the remote control and the 'Delete' button is used for removing devices from the remote control.

Preparing to use your Handheld Remote Control

Before you begin your initial setup you will need to place 4 AAA batteries into the battery compartment on the back of the remote as shown below.

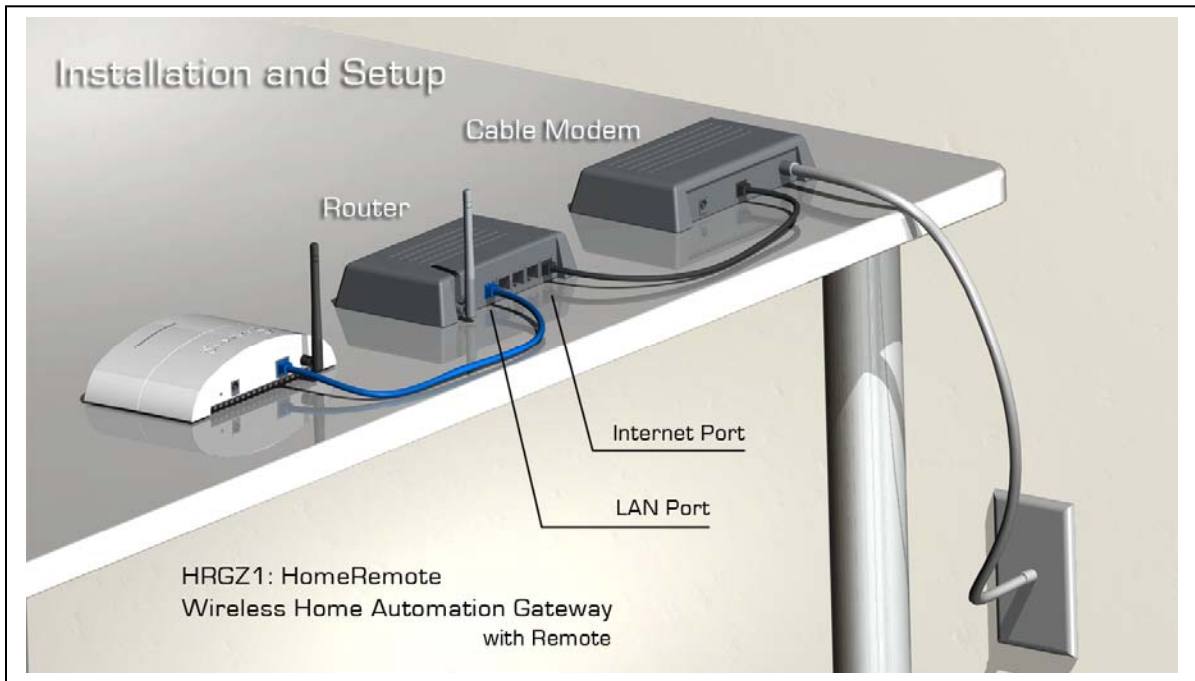


(Batteries are not included)

8 - First Time Setup

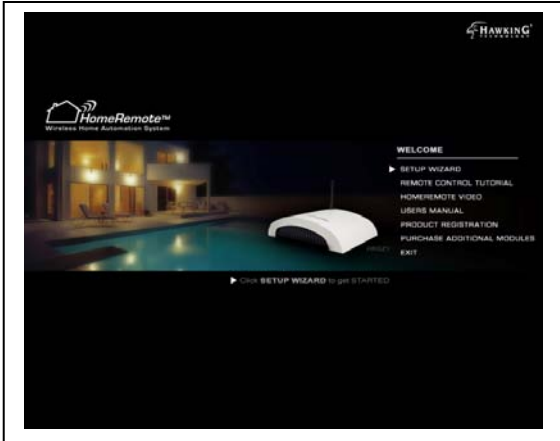
The first time you setup your HomeRemote system you will need to locate the included Setup CD and the HomeRemote Gateway. Make sure that you have all the requirements before installing the Gateway (see System Requirements).

Before placing the CD into your CD-Rom drive you will need to connect the hardware. Locate the HomeRemote Gateway, Power Adapter and Ethernet Cable from your packaging. Connect the HomeRemote Gateway to your home router as shown below.



When you have verified that there is power to the Gateway and the connection to the router has been made locate the Setup CD and place it into your PC.

A menu page should load automatically. If it does not, locate your CD-Rom or DVD-Rom drive icon to browse the contents on the Setup CD and click "autoload."



Autoload Menu Page

Select “Setup Wizard” from the menu page and follow the steps to begin the setup process.

The Autoload menu page also gives you the option to view video tutorials on how to setup and use your remote control, view the User’s Manual, register your product and purchase extra modules from Hawking Technologies.

9 - HomeRemote Setup Wizard Walk-Through

(Also in the Getting Started guide)



The Setup Wizard will first check that the Internet connection to your computer is working. The Wizard will not allow you to continue until it confirms that Internet access is OK.

Once your Internet connection has been confirmed click NEXT to continue.



9.1 - Introduction

The Introduction page gives you an overview of the installation process. You will need to register your product before continuing with the installation process. Registering your product gives you Software Updates and free Technical Support.

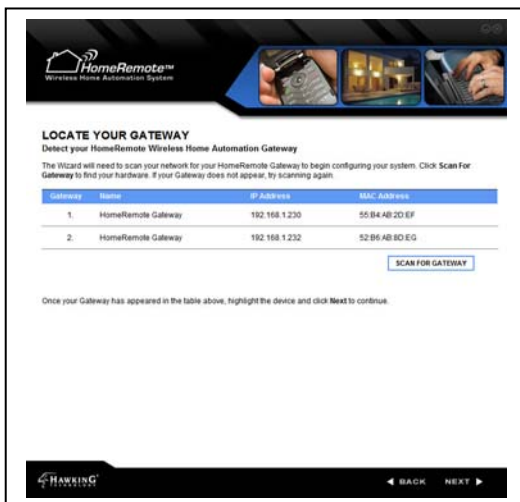
Click Next to continue after you have registered your product.



9.2 - Hardware Setup

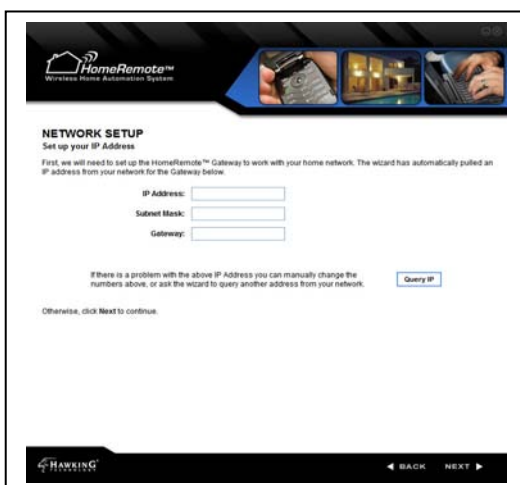
The Hardware setup page will guide you through the correct setup of your HomeRemote Gateway to your home router. Follow the diagram to correctly connect your Gateway and then click Next.

If there is something wrong with your hardware setup, the Setup Wizard will let you know and give you instructions on how to correct your setup.



9.3 - Locate the Gateway

The Locate the Gateway page will scan your network for your Gateway. If your hardware connections have been setup correctly the Gateway should appear in the table on the page. Highlight the Gateway and click NEXT to continue.



9.4 - Network Setup

The Network Setup page will go over your current network settings. The Setup Wizard will pull an IP Address from your router's DHCP server or your computers IP address (in the case that you are using a Static IP network) and assign itself an IP in the same subnet. If the IP address does not automatically appear you may click Query IP to have the wizard select another IP Address. Click Next to continue.

9.5 - Password Setup

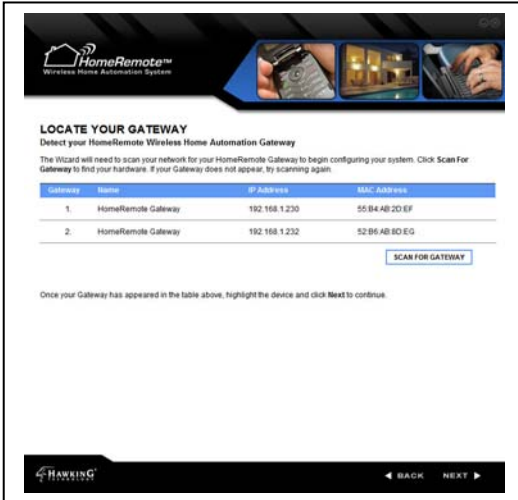
The HomeRemote Gateway uses your Email address as your username and a password that you create to access the interface. Select a password that is easy to remember, but hard for someone to guess. A combination of letters and numbers is recommended (up to 15 characters). After you have selected your Username and Password click Next.

9.6 - Software Update

The Setup Wizard will now automatically check for the latest software for the HomeRemote Gateway. The software updates contain new features and more reliable software for your HomeRemote Gateway to run on. The upgrade may take a few minutes so be patient. Click NEXT when the update has completed.

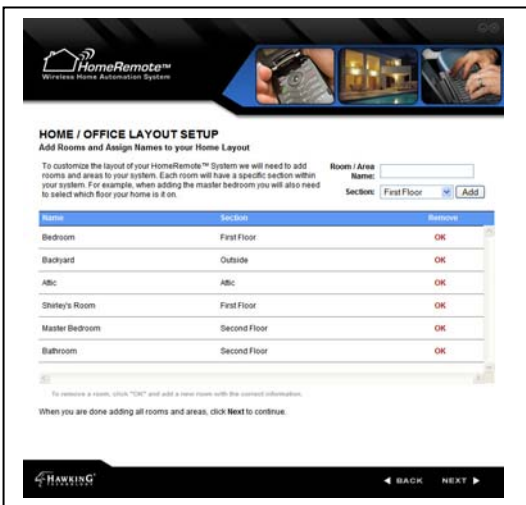
9.7 - Clock Setup

The Clock Setup page will customize the HomeRemote clock to your current time zone. Select the Time Zone from the drop down menu and click Next, or manually input your time and click Next.



9.8 - Wireless Home Automation Setup Overview

After you have successfully completed the setup of your Gateway to your home network, the Home Control setup will begin. This page gives you an overview of the steps necessary to customize the HomeRemote system to your home.



9.9 - Home Layout Setup

The Home Layout setup page lets you customize the system with the specific rooms within your house. The HomeRemote Gateway organizes your home with your custom room names along with the section of your home that each room is in. For example, a sample room would be Living Room. The section of the Living Room would be the 1st Floor. When you are finished adding in the rooms, click Next to move on.



9.10 - Adding Modules and Devices

After you have setup the rooms in your home, you will need to add devices and modules to these rooms. Click the link to watch the Video Tutorial for detailed instructions on how to do this.

You will need to use the included Home Planning Guide here to document each module that you add to your home. (This will be used later for organizing and naming your devices and modules)



9.11 - Transfer Settings to the Gateway

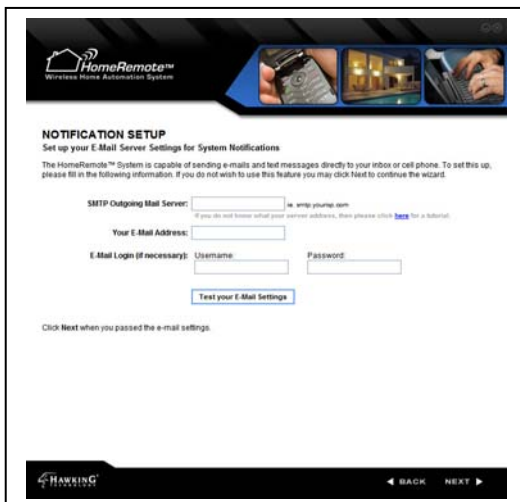
After you have finished adding your modules and devices to your Handheld Remote Control, the Transfer Settings page will add the settings to your Gateway. Click the link to watch the Video Tutorial for detailed instructions on how to do this.

Place the Remote Control next to the Gateway and hold the INCLUDE button down until the LEDs begin to flash. Next push the Channel 1 ON button and release (the Green LED should remain solid) Click the Detect Remote button on the Wizard page to begin the transfer.



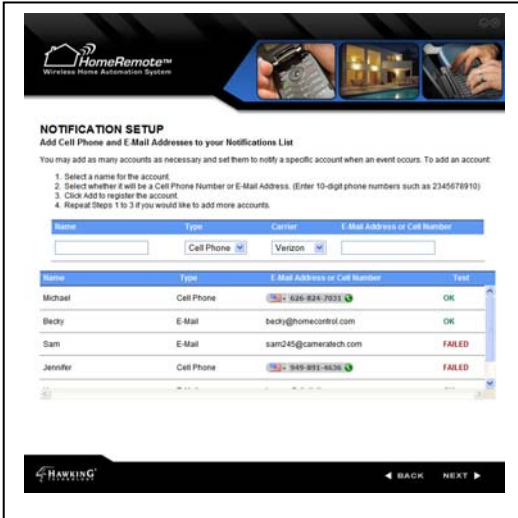
9.12 - Customizing / Naming Modules and Devices

When the Setup Wizard finishes transferring the settings to your Gateway from your Handheld Remote, the modules will be listed in the order that they were added in the Setup Wizard customizing modules page. For each module you will need to create a custom name (i.e. Floor Lamp), select a Room that the module is installed in and select a graphical Icon for the module. When you have finished click Next to move on.



9.13 - Notification Setup

The Notification Setup page guides you through the setup of your outgoing mail server for use with the HomeRemote Alerts and Notifications feature. If you do not know what your Internet Service Provider's Outgoing Mail Server is click the link on the Wizard page to see the online tutorial. Next you will need to enter any Email address (this will be the "From" Email address used when sending text messages and E-mails) that you have as well as a login and password if necessary. Test your Email settings to confirm that are correct, then click Next.



9.14 - Notification Setup / User Accounts

Notification accounts are used to determine where the Alerts and Notifications from your HomeRemote system get delivered to. There are two types of accounts to setup: Email and SMS Text Message. To setup an account, enter a name for the account (i.e. Sidd's Cell Phone) select the type of account (i.e. Cell Phone), select the cellular carrier of the cell phone (i.e. Verizon) and enter the 10-digit cell phone number without dashes. After you have finished adding your Notification user accounts click Next to move on.

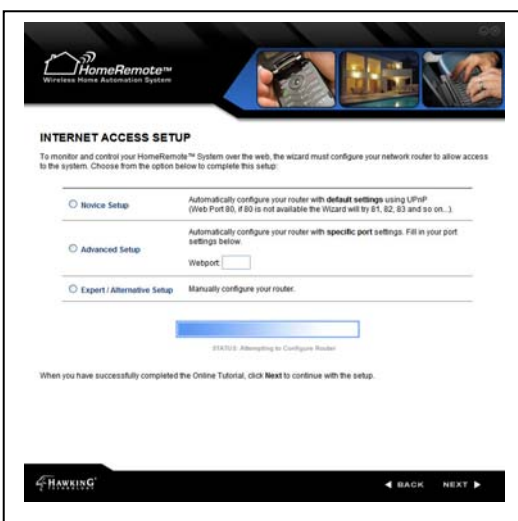


9.15 - Custom Web-Address

The Internet Setup page is where you will select a custom web address for accessing your HomeRemote system from when using an Internet web browser (i.e. Internet Explorer)

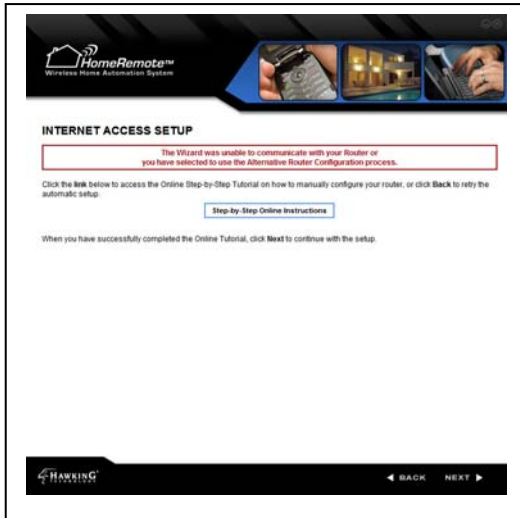
Select a name such as, “myhome” and click Next to continue.

Note: If the name you have selected is already taken the Setup Wizard will notify you and ask for another name.



9.16 - Internet Access Setup (Router Configuration)

The Internet Access Setup page will configure your router to allow Internet access of your HomeRemote System. It is recommended that you select the Novice setup to allow the Setup Wizard to automatically attempt to configure your router. If you are a more advanced user and wish to customize your router settings you may click Advanced setup to enter your own web port or Manual to see instructions on how to manually configure your router.



9.17 - Internet Access Setup (Manual Setup)

In the event that the Router configuration fails the Wizard will display help page letting you know that the configuration has failed. If this happens, simply click on the link to view the Step-by-Step tutorial on how to manually configure your home Router. The tutorial will provide step-by-step instructions with pictures on how to easily open a port on your router.



9.18 - Cell Link Setup

The Cell Link Setup page will guide you through the initial installation of your cellular phone. Your purchase of the HomeRemote Gateway gives you a free trial of the service which allows you to control your HomeRemote system from your cellular phone. If you have HomeRemote Cameras installed on your network you will be able to view them on your cell phone as well. Click the Set Up Cell Link button to continue. (View the Cell Link Setup portion of this Manual for more instructions)



9.19 - TZO DDNS Service

The HomeRemote Gateway uses TZO's award winning DDNS service to allow you to select your custom domain. TZO's DDNS service also helps keep track of your Internet IP Address so that you do not have to. Your purchase of the HomeRemote Gateway gives you a free trial of this service. You may choose to pre-pay for this service to avoid any interruption in your service. Click the Pre-Pay button to do so.



9.20 - Setup Complete

Your Setup is now complete. The final Wizard page gives you the links you will use to access your HomeRemote System from your home, the Internet as well as your Cellular phone.

Note: When using a web-browser to access your HomeRemote System from your home, you will need to enter the local IP address of the Gateway instead of your custom domain name. When viewing from the internet remotely, you can use your custom domain name that you selected earlier.

10 - Setting Up the Handheld Remote Control

The HomeRemote Handheld Remote Control is a powerful and convenient tool for use around your home to control a single device or multiple devices with the touch of a single button. The remote is capable of dimming lights, raising window shades or turning off electrical appliances all at once.

The instructions below will give you detailed instructions on how to customize the remote towards your preferences.



Adding Modules to a Network

1. On the Remote Control: press + release **INCLUDE**. Green LED will flash. ●
2. On the Module: press + release **PROGRAM**. LED will turn solid green. ●

Associating Modules to Channels

On the Remote Control:

1. Simultaneously, press + hold **ON** and **OFF** buttons of desired channel. Both red and green LEDs will flash. ● ● Release ON and OFF buttons.
2. Press + hold **INCLUDE**.
3. While holding **INCLUDE**, press **PROGRAM** on the module.
4. Release **INCLUDE** on the remote controller. Green LEDs on the controller and module will flash. ● ● The module LED will turn solid green. ●



Removing Modules from Network

1. On the Remote Control: press + release **DELETE**.
2. On the Module: press + release **PROGRAM**.

Removing Modules from Channel

1. On the Remote Control: press + hold **ON** and **OFF** of the desired channel. Both red and green LEDs will flash. ● ● Release ON and OFF buttons.
2. Press + hold **DELETE**.
3. While holding **DELETE**, press **PROGRAM** on the module.
4. To remove additional devices, repeat step 1-3.



Resetting Network and Channels

1. Press + hold **INCLUDE** and **DELETE** for 10 seconds.
2. Hold Channel 1 **ON + OFF** until green LED turns solid. ●

Resetting Channels

1. Press + hold **INCLUDE** and **DELETE** for 10 seconds.
2. Hold Channel 2 **ON + OFF** until green LED turns solid. ●



Replicating the Network and Channel Settings

Original Remote Control

1. Press + hold **INCLUDE** for 5 seconds. Both red and green LEDs will flash. ● ● Release **INCLUDE**.
2. Press + release Channel 1 **ON** on primary controller. Green LED will flash. ●

New Remote Control

1. Press + hold **INCLUDE** for 5 seconds. Both red and green LEDs will flash. ● ● Release **INCLUDE**.
2. Press + release Channel 1 **OFF** on secondary controller. Green LED will flash. ●



Transfer your 'Included' Modules from your Handheld Remote Control to your Gateway

(During initial installation and when adding new modules to your system)

1. Place the remote control next to your HomeRemote Gateway.
2. Press + hold the **INCLUDE** button until the Green and Red LEDs begin to flash. ● ●
3. Press Channel 1 **ON** button until the Green LED turns solid. ●
4. Press the 'Detect Remote' button on the Setup Wizard screen or web-interface menu of the Gateway.

11 - Using other Z-Wave Remote Controls

There are many Z-Wave capable / HomeRemote Compatible remote controls on the market. Most Z-Wave capable remote controls are compatible with the HomeRemote System. Remote controls, such as those from Logitech Harmony, Monster Central and GE SmartHome will all work with your HomeRemote System. You will need to carefully read the user's manual that came with your 3rd party remote control and find the section that guides you through setting up a secondary controller or replicating your controller.

To add the settings from your 3rd party remote control to the HomeRemote Gateway you will need to find the 'Replicating' feature on your remote. During the Setup Wizard step that asks you to transfer settings from your HomeRemote Handheld Remote Control to the Gateway you will instead use your 3rd party remote control and put it into replicating mode. Then push the Detect remote button on the wizard and the transfer should begin. You can also do this to replicate the settings from your 3rd party remote to your HomeRemote Handheld Remote Control and vice versa.

12 - How to use the HomeRemote Web-Based Interface

This section of the manual will guide you through using your web browser to access the HomeRemote System. To access the HomeRemote System from a web-browser from a computer within your home, you will need to type the IP Address of your Gateway into the address bar of the browser. For example, if your Gateway was setup on 192.168.1.230 then you would type <http://192.168.1.230> into your web browser. If you are trying to access your HomeRemote System remotely over the web, you would type in your custom web address. For example, www.myhome.homeremote.net. After you have accessed your Gateway you will be prompted for your username and password.

The HomeRemote Web-Based Interface is your central control panel to your home. From the Web Interface you will be able to adjust your configurations, add and remove Z-Wave devices, control and monitor your appliances and cameras, as well as setup your alerts and notifications. The Web-Based interface gives you total control over your features and records all activity within your home.

12.1 - Home Status Page

The screenshot displays the HomeRemote web interface. At the top left is the HomeRemote logo with the tagline 'Wireless Home Automation System'. At the top right is the Hawkings Technology logo. A navigation bar contains three main sections: 'HOME STATUS', 'SETUP', and 'MOBILE VIEW'. Below these are sub-sections: 'CONTROL', 'DEVICE MANAGEMENT', and 'RECENT ACTIVITY'. The main content area is titled 'HOME STATUS' and shows the date and time as 'Fri Feb 16 17:54:05 2007' with an 'Auto refresh' button. The interface is organized into two main sections: 'FIRST FLOOR' and 'SECOND FLOOR'. Under 'FIRST FLOOR', there are two panels. The 'Living Room' panel includes a thermostat with 'Current Temp: 73°', 'Cool Set Temp: 85°', and 'Heat Set Temp: 62°', along with buttons for 'Cool', 'Heat', 'Auto', 'On', and 'Fan'. It also shows a 'Lamp' (OFF) and a 'Television' (OFF). The 'Front Entrance' panel shows 'Lights' (ON) and a 'Lamp' (ON), with a 'View' button for the 'Front Entrance Camera'. Under 'SECOND FLOOR', there are two panels. The 'Master Bedroom' panel shows 'Lights' (ON) and a 'View' button for the 'Master Bedroom Camera'. The 'Sarah's Room' panel shows 'Lights' (ON) and a 'Radio' (OFF).

OUTSIDE

Backyard		Front Yard	
Lights	<input type="checkbox"/> OFF <input type="checkbox"/> ON	Lights	<input type="checkbox"/> OFF <input checked="" type="checkbox"/> ON

SCENES

Name	Scheduling	Quick Control	Activity
All Lights	ACTIVE <input type="button" value="BYPASS"/>	<input type="button" value="ON"/> <input type="button" value="OFF"/>	
Movie Time	ACTIVE <input type="button" value="BYPASS"/>	<input type="button" value="ON"/> <input type="button" value="OFF"/>	

ALERTS AND NOTIFICATIONS

Name	Alerts	Activity
Front Entrance	ACTIVE <input type="button" value="BYPASS"/>	

RECENT ACTIVITY

Fri Dec 31 19:23:55 1999 First Floor - Front Entrance - Lamp Dim Level set to 50%

Fri Dec 31 19:23:53 1999 First Floor - Front Entrance - Lamp Dim Level set to 99%

Fri Dec 31 19:23:50 1999 First Floor - Front Entrance - Lights Dim Level set to 99%

Fri Dec 31 19:23:35 1999 First Floor - Living Room - Lamp Dim Level set to 99%

Hawking Technologies, the Hawking Technology Logo and HomeRemote are trademarks of Hawking Technologies, Inc. All other trademarks herein are the property of their registered owners. © Hawking Technologies, Inc. 2006

The Home Status page is a snapshot of your home’s current status. This is the first page you will see each time you logon to your HomeRemote Web Interface. The Web Interface is the portal to your home from any internet enabled web browser. From here you are able to control any modules and monitor all devices within your system. You can view HomeRemote Wireless Video Cameras that you have setup, control Scenes (a group of devices with specific settings controlled by a single button), Alerts and Notifications and view Recent Activity within your system.

The Home Status page is organized by the Rooms you previously setup using the Setup Wizard as well as the devices placed within those Rooms. Each device is given a custom name and graphical icon. Each Room is placed in a Section (such as 1st Floor). The Room settings and Devices names can be re-edited in the “Setup” page if something changes within your system later on. The Home Status page also gives you the option to Activate or Bypass any Scenes or Alerts that you have setup. This features lets you easily change when you wish to be notified of changes within your home (such as when you leave your home).

When controlling lights with dimming capabilities you will be able to set the dim level by using your mouse to select your specific dim level. Clicking the mouse will activate that module to the setting you specified (i.e. Lights to 50%) Standard appliances will have a basic ON/OFF control. Thermostats are controlled from the Web Interface are controlled similarly to how you would on a normal thermostat. Select the mode and the desired temperature setting and HomeRemote will change your thermostat accordingly.

12.2 - Control Page

The Control Page gives you full Control of all Devices in your HomeRemote network. In addition to simple control, the Control page gives you the option to set “Timers” on all devices. The Quick Timers can be set in intervals from 1 minute to many hours. Quick Timers are great for turning lights or appliances Off before leaving your home or going to bed.

You can control your thermostats, set temperatures and modes using “Timers” from the Control page. Scenes can also be set using “Timers” from the Control page. Say for example you are leaving your home and you wish to turn off all lights after you’ve left your home to avoid walking around in the dark. You would scroll down to the Scene you have created for All Lights, set the action to OFF and pick however many minutes you think it will take for you to leave you home and then click SET.

HomeRemote™
Wireless Home Automation System

HAWKING
TECHNOLOGY

HOME STATUS **SETUP** **MOBILE VIEW**

CONTROL DEVICE MANAGEMENT RECENT ACTIVITY

CONTROL Fri Feb 16 17:53:48 2007 Auto refresh

Manually control any ON/OFF device in your Home Network.
To do so, find your specific device, select ON or OFF and set a timer if needed.
Click OK to execute the action.

FIRST FLOOR

Living Room		
Name	Quick Control	Timer
Thermostat		
Current Temp: 73°	Cool Heat Auto	AUTO in Minutes Set
Cool Set Temp: 85°	Heat	Off
Heat Set Temp: 62°	Fan	
Lamp	OFF 25 50 75 ON	ON in Minutes Set
Television	OFF ON	OFF in Minutes Set
Front Entrance		
Name	Quick Control	Timer
Lights	OFF 25 50 75 ON	OFF in Minutes Set
Lamp	OFF 25 50 75 ON	OFF in Minutes Set
Front Entrance Camera	View	

SECOND FLOOR

Master Bedroom

Name	Quick Control	Timer
Lights	OFF 25 50 75 ON	OFF in Minutes Set
Master Bedroom Camera	View	

Sarah's Room

Name	Quick Control	Timer
Lights	OFF 25 50 75 ON	OFF in Minutes Set
Radio	OFF ON	OFF in Minutes Set

OUTSIDE

Backyard

Name	Quick Control	Timer
Lights	OFF ON	ON in Minutes Set

Front Yard

Name	Quick Control	Timer
Lights	OFF ON	OFF in Minutes Set

SCENE CONTROL

Name	Quick Control	Timer
All Lights	ON OFF	OFF in Minutes Set
Movie Time	ON OFF	OFF in Minutes Set

Hawking Technologies, the Hawking Technology Logo and HomeRemote are trademarks of Hawking Technologies, Inc. All other trademarks herein are the property of their registered owners. © Hawking Technologies, Inc. 2006

12.3 - Device Management

HomeRemote™
Wireless Home Automation System

HOME STATUS SETUP MOBILE VIEW

CONTROL DEVICE MANAGEMENT RECENT ACTIVITY

DEVICE MANAGEMENT Fri Feb 16 17:53:29 2007

Scenes
Group multiple devices together with specific settings for custom scenarios (i.e. Sleep - All Lights Off or Movie Time - Specific lighting settings for the Living Room)

Name	Scheduling	Quick Control	Actions
All Lights	ACTIVE BYPASS	ON OFF	Edit/View Remove
Movie Time	ACTIVE BYPASS	ON OFF	Edit/View Remove

[Add New Scene](#)

Alerts and Notifications
Be notified through text messages or e-mails when activity occurs in your home

Room	State	Notification	Actions
Front Entrance	ACTIVE BYPASS	Jason's Cell	Edit/View Remove

[Setup a New Room for Alerts](#)

Linking Devices
Link activity from one device to trigger activity in another device (i.e. When Light A turns on, Light B automatically turns on)

Name	State	Master Device	Actions
Living Room Wall Switch	ACTIVE BYPASS	Lights	Edit/View Remove

[Add a New Link](#)

Hawking Technologies, the Hawking Technology Logo and HomeRemote are trademarks of Hawking Technologies, Inc.

The Device Management Page lets you customize Scenes, Alerts and Notifications as well as Link Devices. The Device Management Page allows you to:

Set “**Scenes**” to control multiple devices with the push of a single button

Set “**Alerts and Notifications**” for security alerts from the HomeRemote System to your Email or Cell Phone

Link Devices to one another so there is a chain reaction when one device is activated

12.3.1 - Setting up Scenes

A Scene is a single or group of Devices set to custom levels that is activated with one button, or single mouse click. Scenes can be used for many applications such as, turning off all lights before going to bed, setting a lighting scene for watching a movie or settings a dinner scene for mood lighting. To setup a Scene click “Create a New Scene” on the Device Management Page.

The screenshot shows the 'SCENE MANAGEMENT' interface. At the top right, it displays the date and time: 'Fri Feb 16 17:51:09 2007' and an 'Auto refresh' button. The main content is divided into several sections:

- Select a scene to view or edit:** A dropdown menu currently shows 'Movie Time'. Below it are fields for 'Edit scene name:' and 'Movie Time'.
- Devices in the Scene:** A table with columns 'Name', 'Location', 'Action', and 'Actions'. The table is currently empty with the text 'There are no devices in the scene.' below it.
- Add a new Device:** Fields for 'Room:' (set to 'Sarah's Room'), 'Device:' (set to '--Select Device--'), and 'Action:'.
- Notification List:** A table with columns 'Name', 'Type', and 'Address/Number'. It contains one entry: 'Account: Jason's Cell, Type: SMS'. There is an 'Add' button.
- Schedule:** A table with columns 'Type', 'Date', 'Time', 'Repeat', and 'Action'. It contains one entry: 'Repeat at Time' set to '06:00 AM' with checkboxes for days of the week and an 'ON' action.

At the bottom of the page, there is a small copyright notice: 'Hawking Technologies, the Hawking Technology Logo and HomeRemote are trademarks of Hawking Technologies, Inc. All other trademarks herein are the property of their registered owners. © Hawking Technologies, Inc. 2006'.

- 1) Name the Scene that you will be creating. (i.e. Movie Time)
- 2) Add the devices and settings for the devices into your Scene. To do this click the Room and then select the Device from the right drop down bar. Once the device has been added select the action and setting you wish the device to be in when you activate your scene.
- 3) Add more devices if needed to complete your “Scene”

The Scene Management page allows you to be notified when a Scene has been activated in your home. To do this you can select a Notification account from your Notification List. If you do not have any Notification accounts see the Notification and Alerts Setup section of this manual.

The Scene Management page also allows for scheduling of your “Scenes” For example, if you are away from vacation you can set up an Outdoor Lighting scene to turn ON everyday at a given time and OFF at a given time to make it appear like somebody is home.

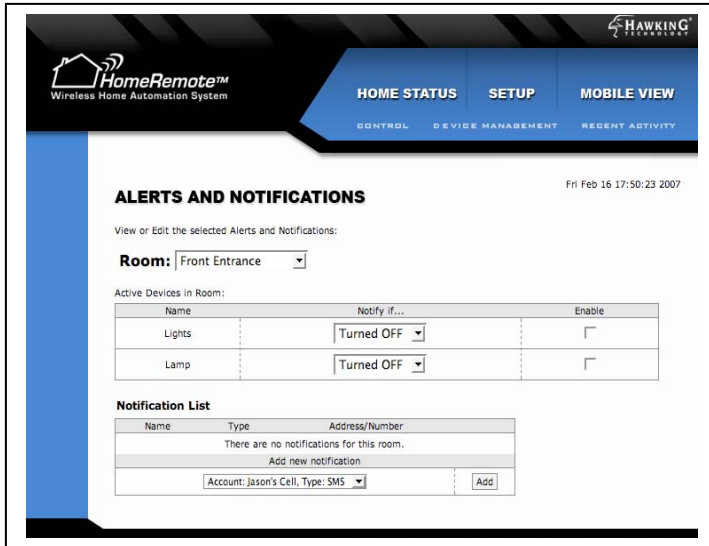
You can create multiple Scenes with many devices in each Scene.

Note: Scenes created on your Gateway will not be transferred to your Handheld Remote Control or vice versa. You will need to create your Scenes individually for the Remote Control and the HomeRemote Gateway.

12.3.2 - Alerts and Notifications

Before you begin using the Alerts and Notifications page you will need to setup your Notification Settings in the Setup page. If you have not done so, please do so first before continuing.

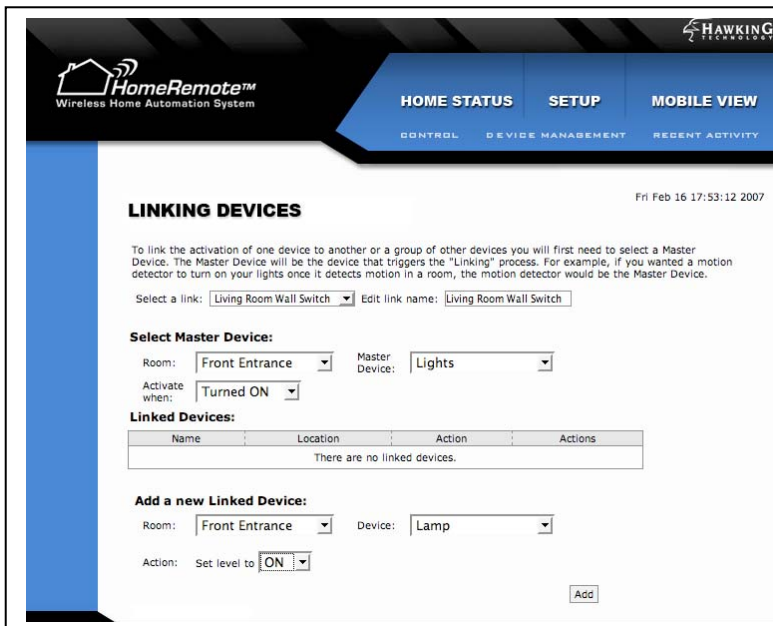
The HomeRemote System is capable of sending a text message or an E-mail to you when a specific event occurs. You can customize which events you wish to be notified of and you can choose who gets notified. The Alerts and Notifications page is organized by Room.



- 1) Select the Room
- 2) The devices within that room will appear below. Select which events you wish to be notified of and then click Enable to activate the device for notifications
- 3) Select the Notification accounts you wish authorize to receive alerts regarding these events.

You may add Alerts and Notifications for every Room within your home. You will be able to easily Bypass or turn off these alerts from the Home Status in the case that you do not wish to receive them at a given time.

12.3.3 - Linking Devices



In the case that you wish to have one device activate another device in a chain reaction the Linking Devices feature will allow you to do so. This feature is used for many different applications. For example, if you have a Z-Wave Wall Switch installed in your home and you wish to have the wall switch control other devices such as a lamp that you have attached to a Z-Wave Lamp Module, the Linking Devices feature can be easily setup to do this. Or if you wish to have a Z-Wave Wall Switch turn on or off all lights within your home you can do so as well.

The Linking Devices feature is organized by a single MASTER DEVICE and a single or multiple LINKED DEVICES. The MASTER DEVICE is the catalyst to activate or deactivate your LINKED DEVICES.

- 1) Choose a name for your Link
- 2) Select the Room that your Master device is located in
- 3) Select the Master Device from the drop down list to the right
- 4) Select the Activity of your Master Device that will initiate the Linking
- 5) Select the Room of your first Linked Device from the bottom table
- 6) Select the device to be linked from the drop down list to the right

- 7) Select the Activity that you wish to occur when the Master Device has been activated, then click ADD

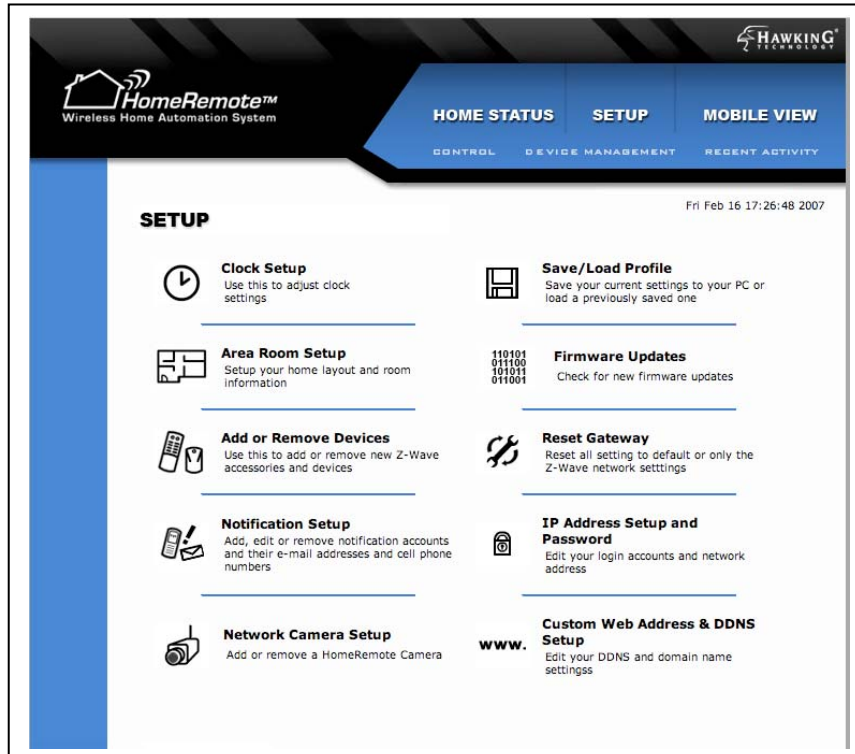
- 8) After you have added the first Linked Device you can repeat steps 5 to 7 to add as many Linked Devices as you wish. (Note: the more Linked Devices you have the longer it will take to execute all links)

12.4 - Recent Activity

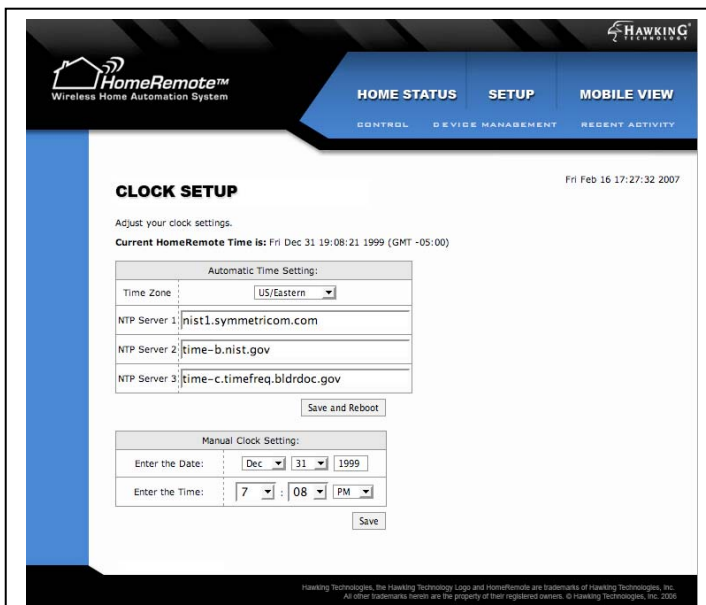
The Recent Activity records all activity and events that occur within your HomeRemote System. For example, if a light module was turned on, the Recent Activity page would have a record of it and when it happened. View this page to troubleshoot something from the past or see events that have happened within your home while you were away. The Recent Activity page also records system events such as a change in your network settings or configurations. This is used for troubleshooting network issues.

12.5 - Setup Page

The Setup Page used to adjust your Gateways internal settings. From here you are able to adjust your local network settings, add or remove rooms, add new devices, change the clock time, reconfigure your notification settings, save and load profiles, update your firmware, reset the entire Gateway and change your DDNS settings and Web-address settings. It is highly recommended that you do not change these settings unless understand the effects of your changes.



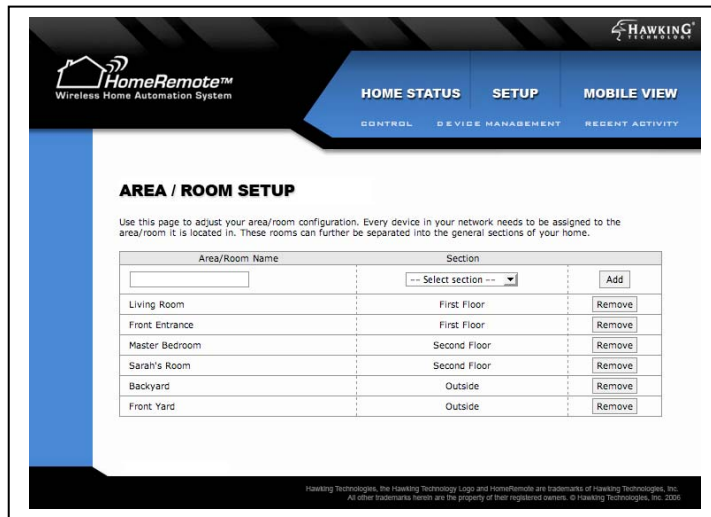
12.5.1 - Clock Setup



The internal Clock of your HomeRemote Gateway is set to automatically update itself using the Internet. You have the choice to manually set your time, however it is recommended that you use the time servers set in the Gateway.

If you see that your time is incorrect and you are using the time servers in the Gateway you may want to choose your correct Time Zone to have it reflect your current time. The Clock is used for your Scheduled events and time stamping the events that occur within your system.

12.5.2 - Creating Rooms / Areas



The Setup Wizard will guide you through the initial setup of your home and rooms, however if you wish to make any changes to your initial configuration you may do so here.

To add a new room type the name of your room in the box and select the section of your home the room is in. Then click Add.

To remove a room, click the Remove button next to the room you wish to remove.

Note: If you remove a room that devices are currently listed under, you will need to assign the devices to another room in order to continue using them.

12.5.3 - Add / Edit or Remove Devices

The Add/Edit or Remove Devices page gives you information on all devices currently within your system. This page allows you to change the name of your current devices as well as remove devices that are no longer used. You can edit the name and location of any device any time.

Expanding your System with new devices

The Setup Wizard will guide you through the initial setup of your new devices, however in the case that you add new devices to your system at a later time you will need to use this page to do so. When adding additional devices to your system you will first need to Include them into your Handheld Remote Control. If you do not know how to do this, see the section in the manual that goes over Adding Devices using your Remote Control.

After you have added the new devices into your remote control, place the Handheld Remote Control physically next to the Gateway. On the remote control press and hold the Include button until the Red and Green LEDs begin to flash simultaneously. Next press the Channel 1 ON button on the Remote Control and the Green LED should begin to blink.

On the Adding Devices page scroll to the bottom and click Detect Remote while the Green LED on the Remote Control is still blinking. You will have to do this rather fast to ensure a connection. The interface should give you the status of the transfer. If the transfer fails try these steps again.

When successful, the list of all your devices, including your old devices will appear in the page.

HomeRemote™
Wireless Home Automation System

HAWKING™
TECHNOLOGY

HOME STATUS SETUP MOBILE VIEW

CONTROL DEVICE MANAGEMENT RECENT ACTIVITY

ADD / EDIT OR REMOVE DEVICES

EDIT CURRENT Z-WAVE™ DEVICES AND ACCESSORIES

This section allows you to edit the name and location of a Z-Wave device on your system. Click **Save Changes** after editing your configuration to apply the new changes.

Devices in your system:

node id	type	Name	location	icon
7	dimmer	Lights	Master Bedroom	Bulb
8	dimmer	Lights	Sarah's Room	Bulb
9	Thermostat	Thermostat	Living Room	-Select Icon-
10	dimmer	Lamp	Living Room	-Select Icon-
11	switch	Television	Living Room	-Select Icon-
12	dimmer	Lights	Front Entrance	-Select Icon-
13	dimmer	Lamp	Front Entrance	-Select Icon-
14	switch	Lights	Backyard	-Select Icon-
15	switch	Lights	Front Yard	-Select Icon-
16	switch	Radio	Sarah's Room	-Select Icon-

ADD NEW Z-WAVE™ DEVICES AND ACCESSORIES

To add new Z-Wave devices and accessories to your HomeRemote system follow the steps below:

- 1) Physically place your new Z-Wave devices within your home.
- 2) Use the handheld remote control to "include" them into your network.
- 3) Place your handheld remote control directly next to the HomeRemote Gateway.
- 4) Click the "Detect Remote" button below.
- 5) Additional instructions will appear to help you.
- 6) When successful, new devices will appear in the device list above.
- 7) Enter a name for each of the devices you add.
- 8) Select the room/area of the device from the drop down menu.
- 9) Select a graphical icon to represent the new device.
- 10) When you have completed your customizations click **Save Changes**.

The detect operation completed successfully.

Hawking Technologies, the Hawking Technology Logo and HomeRemote are trademarks of Hawking Technologies, Inc. All other trademarks herein are the property of their registered owners. © Hawking Technologies, Inc. 2006

Reset Z-Wave Controller

To clear all devices from your Gateway, in the event that you wish to install your devices all over again, or when performing maintenance on your system you can select the Reset Z-Wave Controller button. However, it is recommended that you do not do this if your system is

currently functioning normally. The Reset Controller feature will remove all devices, device settings, scenes, notifications and alerts, linked devices and controls from your Gateway.

12.5.4 - Notification Setup

The Notification Setup page shows your current notification settings that were originally setup during your initial Setup Wizard run. This page will allow you to change the settings of your mail server and add, edit or remove your notification accounts.

The HomeRemote Gateway uses your Outgoing E-Mail Server to send out alerts and notifications to your cell phone and E-mail account. The use of your Internet Service Provider's Outgoing E-Mail Server is highly recommended (i.e. Cox, Comcast, Time Warner etc...). Using your Yahoo, Hotmail, Gmail, or other public free mail services' Outgoing mail servers may not work since these companies regularly block the use of their Outgoing Mail Servers. If you are not familiar with your Internet Service Provider's Outgoing Mail Server you can check with your Service Provider or view the tutorial on the Hawking website on how to do so.

www.hawkingtech.com/mailservertutorial

The SMTP Port normally used by Outgoing Mail Servers is 25. However, in the case that your Service Provider's mail server does not use 25 you may change this in the field listed on the page.

The Email address may be any Email address you choose. This can be your Yahoo, Gmail or any other Email address you currently have.

Some Mail Servers will require that you login (rarely). In the case that your mail server requires this, you may enter the information in the corresponding fields.

HOME STATUS **SETUP** **MOBILE VIEW**

CONTROL DEVICE MANAGEMENT RECENT ACTIVITY

NOTIFICATION SETUP Fri Feb 16 17:44:15 2007

This section shows your current notification settings. The HomeRemote Gateway uses your "Outgoing E-Mail Server" to send out text messages and E-Mail alerts. Configure your Outgoing Mail Server below.

Note: If you do not know your Outgoing Mail Server settings it can help to look at the account settings on your E-Mail Client Software, such as Outlook and copy the information.

SETTINGS

Field	Data
SMTP Server (Outgoing E-Mail Server)	smtp.west.cox.net <i>Example: smtp.mail.yahoo.com</i>
SMTP Port	25 <i>Example: 25</i>
From E-Mail Address	john@doe.com <i>Example: john@doe.com</i>
Login Required	No
Username	 <i>Example: John</i>
Password	

EDIT NOTIFICATION ACCOUNTS

This section lets you add or edit notification accounts to use with your HomeRemote system

To add an account, follow these instructions:

1. Enter the name of the account.
2. Choose either E-Mail or SMS (Text Messaging).
3. For E-Mail accounts, make sure to enter a full e-mail address.
4. For SMS accounts, enter the 10 digit cell phone number with no spaces, dashes or anything (i.e. 2555548797) then choose your cell phone carrier from the drop down menu.

To test your account, click the test button next to the account name and the HomeRemote system will send out a test notification to that account.

Name	Type	Address/Number	
<input type="text"/>	E-Mail	<input type="text"/>	<input type="button" value="Add"/>

Hawking Technologies, the Hawking Technology Logo and HomeRemote are trademarks of Hawking Technologies, Inc. All other trademarks herein are the property of their registered owners. © Hawking Technologies, Inc. 2006

Adding Notification Accounts

Notification Accounts are used to determine where the Alerts and Notifications are sent to. For example, when you setup an Alert you will choose the Notification Accounts that will receive those alerts. To add a new Notification Account simply type the name of the account such as, Bob's Cell Phone, select the notification type (either Email or Text Message) and then enter the Email address or cell phone number (when entering a cell phone number you will need to select the cell phone carrier as well). When entering in a cell phone number do not use a 1 before the number or any dashes. Simply type the 10 digit phone number. When entering in an E-mail address, type the full E-mail address.

Click Add when you are done with the first account and then repeat these steps to add more accounts. You will now be able to select these accounts in the Device Management / Alerts and Notifications page when configuring your Alerts.

Note: If a user has both a cell phone and E-mail that you wish to enter you will need to create a separate account for each (i.e. Bob's Cell Phone and Bob's E-mail)

12.5.5 - Adding Network Cameras

When adding a Network Camera to your HomeRemote System, the Setup Wizard that is included with the HomeRemote Camera is used to setting up your Camera. In the event that the Camera requires maintenance or you wish to manually setup a HomeRemote Video Camera you can use the Network Camera Setup page to do so. When adding a camera, you will need to assign it a name, a location (i.e. Living Room) from your list of assigned Rooms as well as a web port number that is setup for the use of your camera through your router (typically 82 or 83 etc...). The Mobile View Extension is used for web based snapshots viewed from a cellular phone web browser or standard web browser. From this page you are also able to adjust the settings of previously installed cameras. You can change the Room location or name of the camera as it appears on your HomeRemote web-based interface.

HomeRemote™
Wireless Home Automation System

HAWKING
TECHNOLOGY

HOME STATUS SETUP MOBILE VIEW

CONTROL DEVICE MANAGEMENT RECENT ACTIVITY

NETWORK CAMERA SETUP

Edit or Add a new HomeRemote Camera to your system

Current Cameras:

Name	Location	MAC Address	Local IP Address	Port	Mobil View Extension	Remove
Mater Bedroc	Master Bedroom	00:00:00:00:00:00	192.168.1.241	80		<input type="checkbox"/>

Definitions:

Mobile View Extension: The web extension used to view the camera from a cell phone web browser
Local IP Address: The IP address of the network camera on your local network
Port: The web port the camera uses to access the Internet through your router
MAC Address: The unique hardware identification number of your network camera

Add a new Camera:
It is recommended that you use the Setup Wizard included with the HomeRemote Camera to setup your camera. However, if you choose to manually add a network camera to your system you may do so here.

Name:

Location:

IP Address:

Port:

Mobile View Extension:

12.5.6 - Network Settings / IP Address / Login Setup

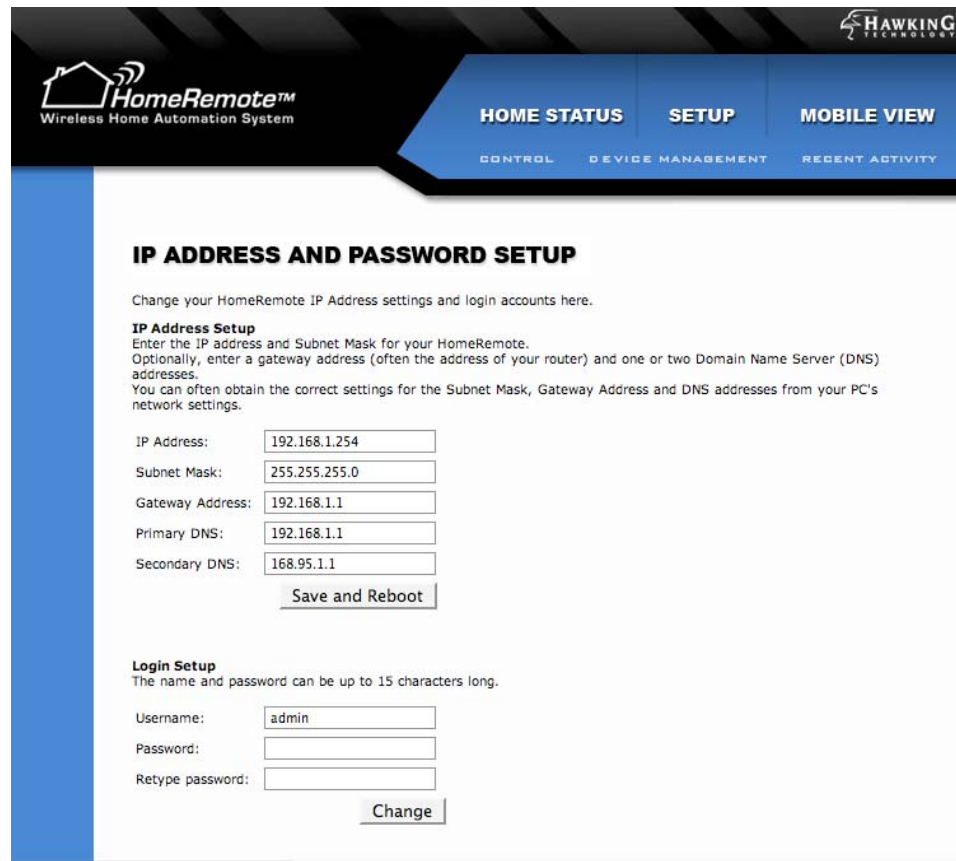
The network IP Address of your HomeRemote Gateway can be adjusted here. It is recommended that you do not change these settings unless you understand the effects of your change.

IP Address: This is the local IP address of your HomeRemote Gateway. The IP Address of your Gateway needs to be in the same subnet as your home network/router. If it is in a different subnet you will not be able to access the Gateway. The IP address of your Gateway is what you will use to access your Gateway from your home using a web browser (i.e. <http://192.168.1.230> - the default IP Address of the HomeRemote Gateway)

Subnet Mask: The Subnet Mask is the range of logical addresses within the address space that is assigned to an organization. In order for your Gateway to work within your home network, this setting **MUST** be the same as your home router. The default Subnet Mask of the HomeRemote Gateway is 255.255.255.0

Gateway Address: The Gateway Address is the address of your home router. This address tells the HomeRemote Gateway where to look for your home router to access the internet. If you do not know the IP address of your home router, you can contact Technical support to find out.

Primary/Secondary DNS: The Domain Name Server setting is used to help the HomeRemote Gateway navigate the internet and translate IP addresses. To find your DNS settings you will need to locate the DNS used by your home router. DNS settings usually come with a primary DNS and a secondary DNS address.



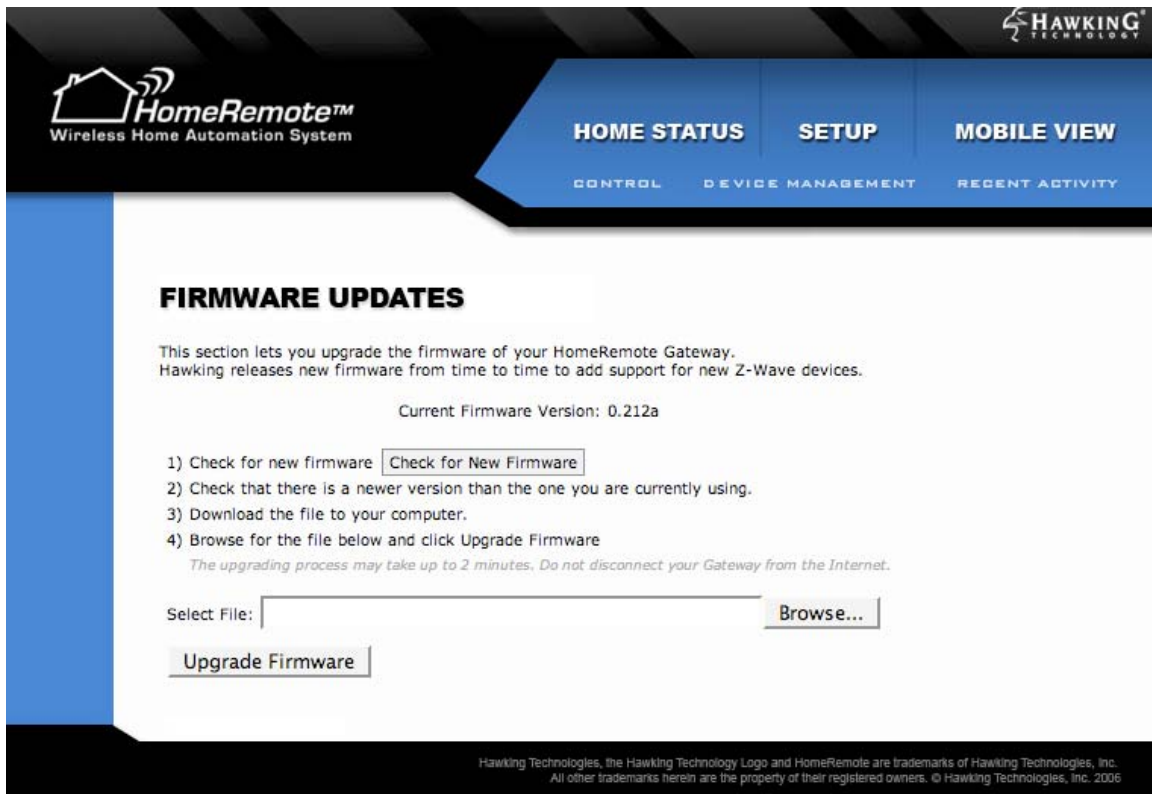
The screenshot shows the HomeRemote web interface. At the top, there is a navigation bar with the HomeRemote logo on the left and the HAWKING TECHNOLOGY logo on the right. The navigation bar contains three main tabs: HOME STATUS, SETUP, and MOBILE VIEW. Below these tabs are three sub-tabs: CONTROL, DEVICE MANAGEMENT, and RECENT ACTIVITY. The main content area is titled "IP ADDRESS AND PASSWORD SETUP". Below the title, there is a brief instruction: "Change your HomeRemote IP Address settings and login accounts here." The "IP Address Setup" section includes instructions to enter the IP address and Subnet Mask for the HomeRemote device, and optionally, a gateway address and DNS addresses. It also notes that settings can be obtained from a PC's network settings. There are five input fields: IP Address (192.168.1.254), Subnet Mask (255.255.255.0), Gateway Address (192.168.1.1), Primary DNS (192.168.1.1), and Secondary DNS (168.95.1.1). A "Save and Reboot" button is located below these fields. The "Login Setup" section includes instructions that the name and password can be up to 15 characters long. There are three input fields: Username (admin), Password, and Retype password. A "Change" button is located below these fields.

Login Setup

To change your password on your HomeRemote Gateway you will need to type in your new password and then retype the same password. Click Change and you will be required to use your new password to login.

12.5.7 - Firmware Upgrades

Every so often, Hawking Technologies will release a new firmware to add new features and benefits to your HomeRemote Gateway. The firmware is a file that is downloaded and installed to your Gateway that the Gateway uses to operate. The Firmware Updates page shows you your current firmware version as well as a location to upgrade your existing firmware. To check for new firmware, simply click the Check for New Firmware button, download the firmware file to your computer's hard drive, Select Browse on the interface and locate the downloaded file. Click Upgrade Firmware to confirm the upgrade. Note: the upgrade may take several minutes. DO NOT remove any plugs or adjust any settings during this time. Doing so may damage the Gateway and cause to stop working.



The screenshot shows the HomeRemote Gateway's web interface. At the top left is the HomeRemote logo with the tagline 'Wireless Home Automation System'. At the top right is the Hawking Technology logo. A navigation bar contains three main sections: 'HOME STATUS' (with a sub-link 'CONTROL'), 'SETUP' (with a sub-link 'DEVICE MANAGEMENT'), and 'MOBILE VIEW' (with a sub-link 'RECENT ACTIVITY'). The main content area is titled 'FIRMWARE UPDATES'. It contains the following text: 'This section lets you upgrade the firmware of your HomeRemote Gateway. Hawking releases new firmware from time to time to add support for new Z-Wave devices.' Below this, it states 'Current Firmware Version: 0.212a'. A numbered list of instructions follows: 1) Check for new firmware (with a 'Check for New Firmware' button), 2) Check that there is a newer version than the one you are currently using, 3) Download the file to your computer, and 4) Browse for the file below and click Upgrade Firmware. A note states: 'The upgrading process may take up to 2 minutes. Do not disconnect your Gateway from the Internet.' Below the instructions is a 'Select File:' label, an empty text input field, and a 'Browse...' button. At the bottom of the form is an 'Upgrade Firmware' button. The footer contains a copyright notice: 'Hawking Technologies, the Hawking Technology Logo and HomeRemote are trademarks of Hawking Technologies, Inc. All other trademarks herein are the property of their registered owners. © Hawking Technologies, Inc. 2006'.

12.5.8 - Saving and Loading Profiles

The Save and Load Profile page lets you save your current settings (Rooms, devices, Alerts, Notifications, Scenes etc...) to a single file on your computer's hard drive. At a later time you may reload this file to restore the settings saved to the Profile file. This feature is used as a back up feature in the case that something goes wrong with your Gateway. It is recommended that you save a Profile after you have setup your home settings for the first time.

The screenshot shows the 'SAVE / LOAD PROFILES' page in the HomeRemote web interface. The interface has a dark blue header with the HomeRemote logo on the left and the HAWKING TECHNOLOGY logo on the right. Below the header is a navigation bar with three main sections: 'HOME STATUS', 'SETUP', and 'MOBILE VIEW'. Under 'HOME STATUS' are links for 'CONTROL', 'DEVICE MANAGEMENT', and 'RECENT ACTIVITY'. The main content area has a blue vertical bar on the left. The title 'SAVE / LOAD PROFILES' is centered at the top of the main area. To the right of the title is the date and time 'Fri Feb 16 17:46:53 2007' and an 'Auto refresh' button. Below the title is a paragraph explaining that a profile is a file saved to the computer with current configurations, and it can be loaded later to revert settings. There are two main sections: 'Save Current Settings and Configurations' with a 'Save Profile' button, and 'Load a Previously Saved Profile' with a 'Load Saved Profile' button. At the bottom of the page is a small copyright notice: 'Hawking Technologies, the Hawking Technology Logo and HomeRemote are trademarks of Hawking Technologies, Inc. All other trademarks herein are the property of their registered owners. © Hawking Technologies, Inc. 2006'.

HomeRemote™
Wireless Home Automation System

HAWKING TECHNOLOGY

HOME STATUS **SETUP** **MOBILE VIEW**

CONTROL DEVICE MANAGEMENT RECENT ACTIVITY

SAVE / LOAD PROFILES Fri Feb 16 17:46:53 2007

A profile is a file saved to your computer with the current configurations of your HomeRemote Gateway. You may load this file at a later time to revert back to the settings saved on your profile.

Save Current Settings and Configurations

Load a Previously Saved Profile

Hawking Technologies, the Hawking Technology Logo and HomeRemote are trademarks of Hawking Technologies, Inc. All other trademarks herein are the property of their registered owners. © Hawking Technologies, Inc. 2006

12.5.9 - Resetting the Gateway

In the Reset Gateway page you can reset your Gateway to default settings or reset only your Z-Wave network settings to remove all modules within your network. It is recommended that you do not use this feature unless you understand the effects of your changes. Resetting the Z-Wave Home Network will remove all modules, module names and settings from your Gateway. You will need to re-add these modules in from your remote control. The Reset HomeRemote Gateway feature will reset your Z-Wave Network settings along with all other settings on your Gateway. The HomeRemote Gateway will be reset to the original settings when you first purchased the product. All information will have to be reconfigured in order for the Gateway to work.

HomeRemote™
Wireless Home Automation System

HAWKING™
TECHNOLOGY

HOME STATUS **SETUP** **MOBILE VIEW**

CONTROL DEVICE MANAGEMENT RECENT ACTIVITY

RESET GATEWAY Fri Feb 16 17:47:23 2007

This section will let you reset your HomeRemote Gateway to default settings.

Reset your Z-Wave Home Automation network.. All added devices, room layouts and configurations will be deleted!
Resetting the Z-Wave Home Automation network will not delete your Gateway settings (IP, Password etc...)

[Reset Z-Wave Home Network](#)

Reset your HomeRemote Gateway to default the IP addresses, the default username and password, and the default time zone.
Note that the room layout and the Z-Wave Home Automation network will not be changed. Your HomeRemote Gateway will reboot.

[Reset HomeRemote Gateway](#)

Hawking Technologies, the Hawking Technology Logo and HomeRemote are trademarks of Hawking Technologies, Inc.
All other trademarks herein are the property of their registered owners. © Hawking Technologies, Inc. 2006

12.5.10 - TZO/DDNS Configurations

The TZO Dynamic Domain Name Server configuration page shows you your current DDNS and custom domain name settings. The HomeRemote Gateway uses TZO's award winning DDNS service to constantly monitor your Internet IP address for changes so you do not have to worry about it. You simply need to remember your custom domain name created during the Setup Wizard process.

13 - Using the HomeRemote Cell Link Service

The Cell Link Service is a premium service offered by HomeRemote that allows for control and monitoring of your HomeRemote system from your cellular phone. The configurations from your HomeRemote Gateway are transferred to the web and sent to your cell phone via an installable application on your cell phone. This section will go over the setup of the Cell Link Service as well as instructions on how to use the program on your cell phone.

13.1 - Subscription Requirements

Cell Link requires that you subscribe to a prepaid service that provides cellular connectivity to your home automation system and delivers live video to your cell phone. The subscription service will be billed to you when you register your Cell Link software to as many cellular phones as you wish without incurring additional Cell Link subscription costs. Your purchase of the HomeRemote Gateway will give you a free trial of the Cell Link Service for a predefined amount of time.

13.2 - Setting up Cell Link (First Time Use)

At the end of the Setup Wizard, the Cell Link setup page will guide you to a web site to setup your Cell Link service (www.cell-link.homeremote.net)



Enter your Email Address (Username) and the Password that you defined when completing the Setup Wizard to log in to the site.

You will be directed to a New User page that will help you select which cell phone you current have.

First you will need to select your current cellular carrier. If you're carrier is not listed in the list, select "My Carrier is not Listed."

After you have selected the carrier you will need to select the manufacturer of your phone. You can check this by looking at the brand name on your cellular phone. If your cell phone's manufacturer is not listed select 'My manufacturer is not listed.'

Next you will select the model number of your cellular phone. If you do not know the model number you can check by removing the battery from your phone and looking at the manufacturer's label behind the battery. There will be a section that states the model number of your phone. If you do not know or cannot find the model number select "My model is not listed,"

Lastly, if you have selected that your carrier, manufacturer or model is not listed or if you've completed the setup thus far, you will need to enter your cell phone number and click Continue. The Cell Link Service will send a text message to your phone. This text message will contain a link that you can use to download Cell Link and will look similar to this.



When you have received the text message, follow the link in the message by selecting the *Go* option on your phone to download the application. (Depending on your phone model, it may be located under the Options menu, and may be titled *Use URL*, *Get Link*, or *Download* instead of *Go*)

A tutorial on how to do this for your cell phone should appear after you enter your cell phone number and click 'Continue.'

Your purchase of the HomeRemote Gateway gives you a free trial of the Cell Link service. This trial period requires that you select a future subscription

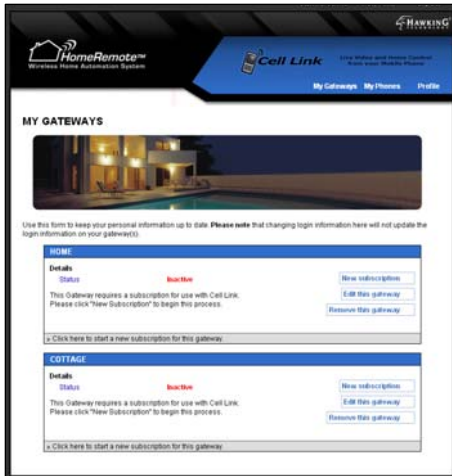
plan and enter your credit card information below. Your credit card will not be charged until your free trial period is over. You may cancel your free trial at any time by logging into your Cell Link account. If you continue using Cell Link after your free trial period, your credit card will be automatically charged at the beginning of each cycle.

13.3 - Software Security

Cell Link is designed to allow your phone (and other phones on your account) to securely access your HomeRemote system. This is accomplished by assigning a unique passkey to your phone such that the Cell Link network can properly verify that your phone is authorized to control your HomeRemote System. This unique passkey is assigned to your phone when you activate the Cell Link Service you have downloaded. The activation process automatically assigns your unique passkey; you only need to follow the instructions in the Cell Link customer portal and on your phone to complete this process. This step only needs to be completed one time for each phone on which you load the Cell Link software. If your phone gets reset or you need to reinstall the Cell Link software, you will need to activate your software again. Please go to www.cell-link.homeremote.net and log into your account to add phones or reinstall the Cell Link application.

13.4 - Navigating the Cell Link Customer Web Portal

After you have completed the setup procedure for your Cell Link service you can access www.cell-link.homeremote.net to manage your account, add more cell phones, manage additional HomeRemote Gateways (for multiple homes) and change your profile.



The ‘My Gateway’ page lists all HomeRemote Gateways that you have associated to your Cell Link account. You can edit the names of your Gateway here and make adjustments to your current subscription or add a new subscription to a new Gateway.



The ‘My Phones’ tab gives you a list of all cell phones added to your Cell Link service. Here you can add more cell phones to your account, change the names of your cell phones and Activate new cell phones. When adding a new cell phone to your HomeRemote Cell Link service you must Activate it before you can use it. To do this click the ‘Activate Phone’ link and follow the instructions on that page.



The ‘Activation’ page will give you detailed instructions on how to activate your phone. You will need to first make sure the Cell Link software is installed on your phone correctly. Open the application from your phone (section 13.5) and click the menu button to access the menu list. Click on Activate and enter the activation code provided on the Activation page. You only need to do this once for each phone you add to the system. This step is also explained in detail in section 13.6.

13.5 - Launching Cell Link from your Cell Phone

Cell Link is launched through the “Applications” menu on your cell phone. The menu can have different titles depending on the model of your phone. Some common names are “Games and Applications,” “Games,” or “Java Applications.”

Once the Cell Link application is downloaded to your phone it should appear in the list of applications in this menu. Some phones allow you to assign ‘Soft Keys’ to certain applications via the setup or customization menus. For example, the Cell Link application can be setup to start by selecting the Right or Left ‘Soft Key’ on your phone. Once you have found the

application in the menu, it can be launched as any other application, by scrolling to the application name and selecting 'OK' or 'Select.'

13.6 - Activate your Phone and Software

After you have loaded the application you will need to **Activate** your software from the 'Options' menu. If 'Activate' does not appear in the Options menu then your software has already been activated and does not need to be activated again unless you have problems accessing your HomeRemote System from your phone. When you select 'Activate' your phone will prompt you for your 12-digit activation code. Your phone will then send this code to the Cell Link database for verification and notify you that "Activation was successful." This code can only be provided via the Cell Link customer portal website. If you do not have an activation code you may acquire one by logging into your account at www.cell-link.homeremote.net and clicking on the 'My Phones' tab to reinstall your software. This will send a message to your phone, as well as generate a new activation code. If the Cell Link software is already on your phone and you are just activating it, you do not need to follow the message link on you phone to download the software again. Just enter the new 12-digit activation code on your phone. (Note: Activation codes are only valid for one activation, and they expire after 24 hours)

The HomeRemote Gateway constantly updates your Cell Link application with the latest changes to your system. This means that if you add a new module to your system the next time you load your Cell Link application the new module will be included in your Cell Link application. Here is a quick walk through of how to navigate the Cell Link interface.

13.7 - Navigating Menus and Executing Commands with your Cell Phone

Selecting Functions Using Your Phone Controls

There are generally three methods of controlling the functions of Cell-Link.

- 1) Most modern cellular phones have navigation keys (up, down, left, right) as well as an 'OK' or select button. These navigation keys can be used to highlight and select icons within Cell-Link application.
- 2) Another method of selecting icons and executing functions within the Cell-Link application is to utilize the alphanumeric keypad (number buttons) on your cell phone. (2 – Up, 4 – Left, 6 – Right, 8 – Down)
- 3) Lastly, you can activate "Short Cut Keys" within Cell-Link by selecting the "Enable Shortcuts" option from the Cell-Link main menu. These shortcuts are assigned to the most commonly used functions within Cell-Link, and instructions are displayed on your phone when you activate this feature.



Once you locate the Cell Link application on your cell phone press 'Select' to run the program.

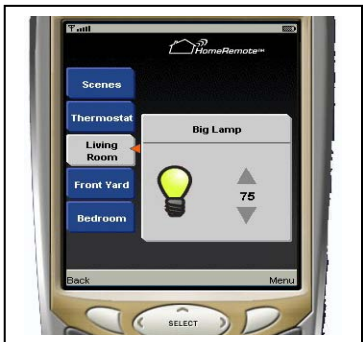
During the initial boot up, Cell Link will establish a connection with your HomeRemote Gateway to retrieve any changes in your home layout.

Note: You may incur charges for Internet Access from your cellular carrier if you currently do not have a data plan on your cell phone service.



When the application loads you will see your Room layout on the left navigation bar. Use your keypad to scroll up and down through your Rooms, Scenes and Cameras. As you go over each Room with your cell phone the list of devices in each Room will appear on the right.

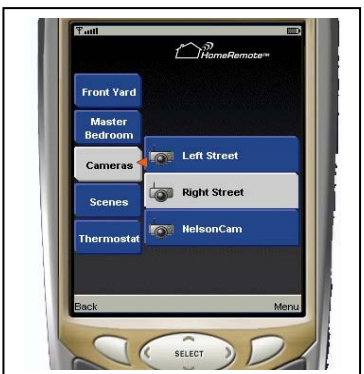
To select these devices simply push the right arrow key on your cell phone to navigate through your devices.



When scrolling through your devices, push the Select button on your phone to access the specific device. This will load the screen to adjust the setting on your device.

For example, the “Big Lamp” in the phone to the left can be adjusted using the up and down arrow pads to change the light dim level from OFF to 50% to ON. When the setting has been set, push the Select button to confirm and the Cell Link service will execute the command.

13.7.1 - Viewing Cameras using Cell Link



If you have a HomeRemote Video Camera setup on your system you will be able to view live video from your cell phone. Navigate using your arrow keys to find the Cameras selection or locate your camera under the Room you have it installed in. Use the arrow keys on your phone to go to the devices menu (by pushing right) and select the camera you wish to view

The Cell Link application will create a secure connection to your camera and begin feeding live video from your camera. You



can view this screen full sized by selecting the 'Large' button on the bottom right using your cell phone buttons.

Note: Video quality and speed will vary depending on your cellular carrier broadband technology offering, cell phone model, geographical location and cellular data plan. It is recommended you use a 3G phone with broadband Internet access for the best quality video on your cell phone.



Installation and setup of HomeRemote Video Cameras for your Cell Link account is very simple. Simply run the Setup Wizard included with your camera. This will configure the camera to your current HomeRemote Gateway. Once this is completed, the Cell Link application will automatically update itself with your latest settings the next time you run the program from your phone. Cell Link will automatically create a 'Cameras' tab to view all cameras in your system. Additionally you will be able to find your cameras by navigating the menus of each room.

13.7.2 - Other Devices (Thermostats, Window Shades etc...)



The Cell Link service is capable of controlling virtually any device installed on your HomeRemote System. Navigation of each is the same as turning on and off a light in a Room.

In the Thermostat menu, current status is shown. To change mode, select Current Mode with the OK key, then choose the new mode by highlighting and using the OK button. To adjust the set point, select Current Set Point. Adjust the temperature by using the up and down navigational keys, and set using the OK key. Select Fan to adjust the fan setting to either Auto or On by using the up and down navigational keys, and set using the OK key.



Window Shade operation is similar to turning lights on and off. Use the up and down arrows to select a height that you wish the window shade to be set to and click 'Select' when the desired height is reached.

13.8 - Cell Link Options Menu and Navigation Tips

The Cell Link Main Menu contains functions that you can use to customize the setup of your phone. Items such as a Personal Identification Number (PIN) or activation of short cut codes can be turned on or off to fit your needs. Depending on the model of your phone, these menu options may appear in a different order than listed below, but they will function as described.

13.8.1 - Set Cell Link PIN / Disable PIN

For security purposes, you can setup a PIN that will prevent unauthorized people from accessing the Cell Link software on your phone. It is important to note that no personal information is contained within the Cell Link application, and at no time is personal information transmitted from your phone or the Cell Link application. (Please visit www.cell-link.homeremote.net for details about our privacy policy)

The default configuration of Cell Link has the PIN feature disabled. If you would like to set a PIN code that you must enter each time you use Cell Link, you must select 'Set PIN' from the Cell Link Main Menu. When you select 'Set PIN' you will be prompted to enter a 4-digit number code. You must then verify this code by entering it a second time. Your phone will display the message "Your PIN has been set." Please remember your PIN or write it down and keep it in a safe place. (If you forget your PIN, you must call customer service at 888-202-3344).

When you select 'Disable PIN' your phone will display the message "Your PIN has been disabled." The next time that you open Cell Link you will not be prompted to enter your PIN. Your phone will display the Cell Link Main Menu. (Note: If you disable the PIN feature, an unauthorized user that has access to your cellular phone may be able to utilize the Cell Link software to access your HomeRemote System.

13.8.2 - Reset Cell Link

Cell Link can also be reset to its default configuration by selecting the 'Reset' command from the Options Menu. This selection requires your confirmation and you will be prompted to select 'Yes' to continue. **YOU SHOULD ONLY DO THIS WHEN INSTRUCTED TO DO SO BY CUSTOMER SERVICE.** This option will delete the configuration file from your phone and you will need to re-activate your software. You will not be able to control your HomeRemote system until you have re-activated.

13.8.3 - BlackBerry® Connection Options and Select Button

There are some Options Menu commands that are specific to BlackBerry® devices.

These commands enable the Cell-Link application to properly send commands over the internet as well as make use of the ‘thumb wheel’ navigation control on the BlackBerry® device.

13.8.4 - Connection Options

If you have a BlackBerry® device, it is necessary to set the connection settings of your BlackBerry® so Cell-Link can access the internet to communicate with your home automation system. You may set these connection settings by selecting the ‘Connection Options’ command in the Options Menu. You will then be prompted to select your cellular carrier. If you do not see your cellular carrier, you can try the ‘Direct TCP’ option. If you are still having issues controlling your home automation system with your BlackBerry®, please contact customer service at 1.888.202.3344.

13.8.5 - Select Button

For a BlackBerry® device, the ‘Select’ command is always located at the top of the Options Menu. This allows you to use the thumb wheel to navigate through the Cell-Link menus. You may make a selection by depressing the thumb wheel. This brings up the Options Menu. Since ‘Select’ is at the top, depressing the thumb wheel a second time will navigate the menus and execute functions.

13.8.6 - Demo/Active Mode

Demo Mode may be activated if you wish to temporarily show someone the Cell-Link menus. In this mode, no signals will be sent over the network to your home automation system. You can activate this mode by selecting the ‘Demo Mode’ command from the Options Menu. You can enter Active Mode again for normal home automation system control by selecting the ‘Active Mode’ command from the Options Menu.

13.8.7 - Help

Cell-Link’s on-screen help describes the basic function of the software and can be used as a reference if you need a reminder on how to navigate the screens. These help screens can be accessed via the ‘Help’ command on the Options Menu.

13.8.8 - About

This command displays the current software version of Cell-Link, as well as some information that may be useful to customer care if you are experiencing issues with your system. You can access this information by selecting the ‘About’ command from the Options Menu.

13.9 - Exiting Cell Link

There are two methods by which you can exit the Cell-Link application.

1) From any screen or menu the application will exit if the red “hang-up” or “End” button is pressed.

2) From the Main Menu, there is ‘Soft Key’ option for the “EXIT” function. Pressing the ‘Soft Key’ associated with this function will exit the application. The Cell-Link application will also close if you receive a phone call while using Cell-Link.

13.10 - Customer Support

Network Outages: Cellular networks occasionally experience periods of ‘service outage’ or abnormally high amounts of traffic that hinders the ability to send data over periods of time. Because your Cell-Link system utilizes these cellular networks, in rare occasions it may not be able to send commands to your HomeRemote system due to cellular network outages or busy network traffic. The Cell-Link system is designed to minimize these instances, and will ‘try’ three times to send your command if for some reason it cannot contact your HomeRemote system. In the case of three consecutive failed attempts to contact your HomeRemote system, the Cell-Link system will notify you that your command was unsuccessful. There will be a delay in the response from when you push the Select button and when the response is received as the service attempts to connect to your HomeRemote System.

Customer Support: The customer portal should be able to walk you through any difficulties with downloading the application to your phone and activation. For further assistance, please contact Hawking Technology Tech Support at 1.888.202.3344.

14 - HomeRemote Accessories (Compatible Z-Wave Devices)

The HomeRemote Wireless Home Automation System from Hawking Technologies is compatible with any Z-Wave enabled wireless home control, home automation device, sensor or module. There are hundreds of accessories from many manufacturers in the market to expand your HomeRemote solution with. This section of the manual will guide you through a few of these product categories and products. Installation of these accessories will vary from one manufacturer to another, however there will always be a ‘Program’ or ‘Discovery’ button for each of these devices. This button is used to ‘Include’ the Z-Wave enabled device into your network. For more information on any of the products and categories listed below, please visit the HomeRemote website at www.homeremote.net.

14.1 - Lighting

Wireless Light Switches – Z-Wave enabled Wireless Light Switches replace your current indoor light switches to allow for control of pre-wired lights within your home. These high

quality light switches come in different designs, colors, wiring configurations and sizes to fit your home's specific needs. When used with the HomeRemote Device Linking feature, a Wireless Light Switch can be linked not only to control your pre-wired home lighting, but also any other Z-Wave enabled device in your home, such as a lamp in another location. Installation of a Wireless Light Switch is just like any other light switch. Simply turn off the power going into your home from an outside breaker box, remove the original light switch, install the Z-Wave light switch and restore the power to your home. (Note: If you are unfamiliar with installing light switches, it is highly recommended you do not do this without support from a certified electrician) After the unit has been installed use your HomeRemote Handheld Remote Control to Include the switch into your network by pressing the 'Program' button on the light switch (usually just the ON/OFF toggle of the light switch) together with the 'Include' button on your remote control.

Wireless Plug-In Lamp Modules – Wireless Plug-In Lamp Modules give you convenient control your existing plug-in lamps and plug-in lights. To install them, simply plug the Lamp module into an available power outlet and plug the power cord from your lamp into the outlet on the Lamp Module. Use the 'Program' on the Lamp Module to 'Include' the module into your network. Most Plug-In Lamp Modules can support dimming of your lights as well.

Wireless Outdoor Lighting Module – The Outdoor Light Module is similar to the Plug-in Lamp Modules except that they are designed for use with your plug-in outdoor lights. Outdoor Light Modules are typically used with Christmas lights, floor lighting, outdoor lamps and any other outdoor electrical appliance. They have weather proof enclosures made to withstand outdoor conditions. Installation and setup is the same as with the Lamp Modules. Simply plug them into an available power outlet, plug in your outdoor lights to the outlet on the Outdoor Lighting Module, then use the 'Program' button on the module to 'Include' it into your network. Outdoor Lighting Modules typically do not support the dimming feature.

14.2 - Electrical Appliances

Electrical Appliance Power Module – Similar in design and function as the Wireless Lamp Module, the Electrical Appliance Power Module supports electrical appliances up to a specified wattage (usually on the packaging). The Electrical Appliance Power Module is typically used for controlling radios, kitchen appliances, irons and any other appliance that you would want remote control of. Installation and setup is as simple as plugging the module into an available power outlet and plugging your electrical appliance into an the available power outlet on the Electrical Appliance Power Module. The 'Program' button should be located somewhere on the outside of the enclosure.

Power Outlet – Z-Wave enabled Power Outlets function similarly to Electrical Appliance Power Modules however they provide a look that you are accustomed to in your home. Z-wave power outlets replace your current in home power outlets for instant control using your HomeRemote remote control, web browser interface or cell phone. Installation of a Power Outlet is similar to a Wall Switch. You will need to first turn off the power coming into your home to avoid electrical shock. Remove the existing power outlet from the wall. Install the Z-Wave enabled Power

Outlet and use the 'Program' button located in the middle of the outlet to 'Include' it into your network. Z-Wave Power Outlets are typically used to control any electrical appliance or plug in lamp.

14.3 - Climate Control

Thermostat – Remotely control your home temperature and climate with Z-Wave enabled Wireless Thermostats. The HomeRemote System, when used with a Z-Wave thermostat, gives you the ability to control your home temperature before you leave your work, or heat up your home from your bed using your cell phone. Installation of Z-Wave Thermostats is just like installing a standard thermostat. It is recommended that you carefully read the instructions included with your Z-Wave Thermostat before installing. The 'Program' button on Z-Wave thermostats is usually a button on the thermostat such as the 'Hold' button. However you should check your user's manual to be sure. Include the thermostat into your network works like any other device. Use your HomeRemote Remote Control next to the thermostat; push the 'Include' button on the remote then the 'Program' button on the thermostat.

14.4 - Window Shades

Window Shades – Z-Wave enabled Window Shade motors allow for control of custom made window shades using your Handheld Remote Control, the HomeRemote Web Interface or your cell phone. Imagine controlling ambient daylight in your home as easily as you can control your electrical lights. Installation of Z-Wave enabled Window Shades is normally done by dealers specialized in custom window shades. The 'Program' button is normally located on the receiver module of the motor.

14.5 - Security

Motion Detector – Z-Wave enabled Wireless PIR (Motion) Sensors allow for remote scene control based on detected motion. When paired with a Motion Detector the HomeRemote System is capable of notifying you when motion is detected within a room trigger devices to turn on when motion is detected or sound an alarm. Motion Detectors can be set as Master Devices for linking the activation of other modules using the Device Linking feature. Installation of Z-Wave Wireless Motion Sensors is plug-and-play. The 'Program' button is normally on the back of the unit.

Hawking HomeRemote Cameras – The addition of a Hawking HomeRemote Wireless Video Camera gives you access to live video from anywhere in the world via your cell phone or web browser. Record playback or view live video using the included management software and utilities. The Hawking HomeRemote Wireless Video Cameras integrate seamlessly with the HomeRemote System. Installation is simplified with a step-by-step Setup Wizard.

14.6 - Access Control

Garage Door Opener – Z-Wave enabled Garage Door Openers give you control of your garage door from anywhere in the world using the HomeRemote Gateway. Installation of these units depends on the manufacturer and model. It may require professional installation.

14.7 - Remote Controls

Remote Controls – There are many Z-wave enabled remote controls in the market ranging from simple, small and convenient remotes to universal remotes that not only control your lighting but also your television and media centers. In the case that you wish to upgrade the remote or add another remote to your HomeRemote System, you will have a large selection to choose from. Manufacturers such as Intermatic®, GE®, Logitech®, Monster Cable®, UEI® and many more create a complete line of intelligent Z-Wave remote controls for your home. Configurations from your current HomeRemote Remote Control are easily transferred to your new remote control with the touch of a few buttons.

For more information on additional Z-Wave devices to customize your HomeRemote System with please visit www.hawkingtech.com/hrstore.php.

15 - Frequently Asked Questions

15.1 - General Questions

Question: What is home automation and home control?

Answer: Home automation and home control is the use of technology in the home to make life more comfortable by automating normal home appliances and activities. Home automation and home control allows you to control features of your home, including lighting, audio equipment, heating/air conditioning and appliances.

Question: What is meant by a “Scene”?

Answer: HomeRemote and your Handheld Remote Control allow you to set a particular “scene” triggering several actions. For example, one scene may raise the lights at a specific time in the morning and another scene may dim the lights in the evening. Each scene can be custom programmed to fit your lifestyle.

Question: Is Z-Wave Wireless Technology secure?

Answer: Z-Wave wireless technology used with your HomeRemote System creates a unique identification code for your home network called a Home ID. Anybody without this secure code cannot access your system or control your home devices.

Question: Does the HomeRemote System cause interference with my other wireless appliances?

Answer: No. The HomeRemote System runs on a special 900Mhz frequency that does not interfere with cordless phones, Wi-Fi or any other communication device.

Question: What is the product warranty

Answer: Yes, Hawking provides a 1-year limited warranty on all materials and workmanship.

Question: What is meant by lighting controls?

Answer: Lighting controls refer to turning lights on and off or dimming lights from a convenient location throughout the home. Light controls allow you to control all types of lighting, including low voltage, fluorescent and incandescent lights.

Question: How far will a signal travel?

Answer: With an open field or no interference, the radio frequency signal will travel 250 feet. The average distance that signal will travel in a house is between 75 to 125 feet.

Question: What if I want my wireless signal to go further?

Answer: Most Z-Wave devices feature a built in repeater. If there is signal interference from the controller to a device, the controller will route the signal to bounce off of or repeat to other Z-Wave devices until it successfully finds a path to the desired device.

15.2 - Remote Control and Z-Wave Modules

Question: How do I move a module from one location to another?

Answer: You will need to first Delete the module from your network using the remote control. Then add the module in it's new location. Last you will need to transfer the new module from your remote to your Gateway. (see the manual for instructions on how to do this)

Question: How many devices can I control with the remote control?

Answer: The Handheld Remote Control can hold a total of 96 devices and each Channel can control up to 16 devices.

Question: What if the light or appliance that I'm trying to control does not turn on?

Answer: Check to see if the device is turned on. Check to see if the bulb has failed. Try replacing the batteries on the remote control.

Question: I had a power outage and my dimmer module didn't automatically turn on.

Answer: It's normal for the dimmer modules to remain off after a power interruption. Press the ON/OFF button on the unit or controller to turn the module ON again. If the module is programmed to turn ON again, on the next program cycle it will properly respond to that command.

Question: If my lights are on and I have a power outage, will the lights come back on when the power is restored?

Answer: Some modules will turn back on to the previous state. Others will not turn back on unless you manually turn them on, use a remote control or Gateway web interface to turn on the device.

Question: I am trying to include a module and it keeps coming up unsuccessful. What am I doing wrong?

Answer: Delete the module from the network by pressing the PROGRAM button on the module and the delete button on the primary controller. If the controller shows that the delete was successful, follow the procedure to include the module.

Question: I have several channels programmed to turn on at sunset and off at individual times. The first channel will turn on, but not the others. Why?

Answer: It is recommended that when programming ON times, you use only one channel with sunset selected as the ON time. Then assign all the modules to that channel, thus turning all of them on at sunset. Each channel can be turned off at various times by using additional events for off settings.

Question: How do I set the dim level of a light module and associate it to a button on the remote?

Answer: While adding the module to a channel on your remote control by pressing the ON and OFF buttons of the desired channel, hold the INCLUDE button on the remote. With your other hand press and hold the PROGRAM button on the module until your dim level is set. Make sure your lamp is on the ON position so you can see the dim level. Once the dim level has been reached release the INCLUDE button on the remote.

Question: What if I lose my Handheld Remote controller?

Answer: Your HomeRemote Gateway will still function normally, however if you wish to add more modules and expand your system you can purchase another controller and delete all modules from the previous network. Just follow the deleting the network instructions in the manual.

15.3 - HomeRemote Gateway Installation

Question: I have added a lot of devices with my remote control and transferred them to my Gateway with the wizard. There are too many being displayed and I don't know which one is which?

Answer: You forgot to use the Home Planning Guide while adding in your modules. When you add a network with a lot of devices, things tend to get messy. The Home Planning Guide is used to organize your network so you know which module is which. Go back and reset your remote control and delete the modules on your network. As you are adding the modules in again use the Home Planning Guide to note the location and name of each module so you can use this to figure out which module is which when transferring them to the Gateway. It is important you write them down on the HPG in the order they are added as the module numbers on the left of the HPG will correspond to the module numbers when you transfer them to the Gateway.

Question: The Setup Wizard is not detecting my Gateway. What do I do?

Answer: Check to see that your hardware connection is ok. Make sure the Power LED on the Gateway is on and the Network LED on the Gateway is on (located on the right of the led bar). If not make sure that the power adapter of the Gateway is plugged in and the Ethernet cable from the Gateway to your home router is plugged in securely. There should be a light on the router corresponding to the LAN port number you are using that will light up when the connection is detected. Try the detection again with the wizard.

Question: The Setup Wizard didn't query an IP address for me. What do I do?

Answer: Click on the Query IP button on the IP address wizard page. If this does not work you will need to enter your own IP address manually. From a Windows PC, click START, click RUN, type CMD in the field and click OK. A black terminal screen should appear. In the terminal screen type IPCONFIG and hit enter. An IP Address, Subnet Mask and Gateway number should appear. For example:

IP Address: 192.168.0.2 Subnet Mask: 255.255.255.0 Default Gateway: 192.168.0.1

On the IP Address page in the Wizard use the same IP address except for the last digit (2 in the example) Choose a number higher than 200 (In the example you would choose 192.168.0.201 as the IP address for the Gateway) Use the same Subnet Mask and Default Gateway and type it into the Wizard. Click NEXT.

Question: I have two bedrooms on the same floor. How do I set this up in the Wizard?

Answer: You will need to create two unique names for each room. Try the name of the person the room belongs to, such as Bob's Room

Question: The video tutorial for adding devices and transferring settings to the remote control do not work for me. What do I do?

Answer: The video files on the Setup Wizard are AVI video files. You will need a media player installed on your computer that can play these file formats. Download and install Windows Media Player or any other media player software that supports AVI video files. Click the link again to play the videos.

Question: When I transfer the settings from the remote control to the Gateway using the Wizard the detection fails. What do I do?

Answer: Try placing the remote control directly next to the Gateway. For security reasons the wireless signal is reduced to close proximity connections only to avoid your signal being detected outside your home. Try the detection again with the remote less than 1 foot from the Gateway. Press and hold the INCLUDE button on the remote until both the red and green LEDs on the remote control blink. The press the Channel 1 ON button until the green LED remains solid. Press the Detect button on the Wizard to begin detection.

Question: After the Setup Wizard has detected my remote control network and transferred the settings over, the modules listed are not in the order that I have installed them. How do I tell which module is which?

Answer: This sometimes happens when the remote control you are using has been previously used to install another network. If you have previously used your remote control for installing other modules you will need to reset your remote control and try the detection and transfer to the Gateway again after you've re-added all your modules. Or you may continue with the Wizard installation and test each module by turning them ON and OFF with the HomeRemote Web Interface to figure out which module is which and name them accordingly. (You can adjust the names and test which module is which in the SETUP tab of the HomeRemote Web Interface. In the SETUP page go to ADD/REMOTE DEVICES and name your devices here)

Question: How do I setup my Notification settings? My Email test always fails.

Answer: You are probably using a SMTP Outgoing Mail server that is incorrect. To view the tutorial on how to find the correct SMTP Outgoing Mail Server go to www.hawkingtech.com/mailservertutorial.php

15.4 - HomeRemote Gateway Web Interface

Question: I can't access my HomeRemote Gateway Web Interface from a home computer. What's wrong?

Answer: This likely because you are trying to use your custom web address to access the Gateway. This will not work if you are using a computer that is connected to your home network. To access the interface from your home network you will need to enter the IP address into the address bar of your internet web browser. If you do not know what your IP address is, you can run the Setup Wizard CD and click next a few times until you get to the Gateway detection page. Once the Wizard detects your Gateway it will list an IP address next to it. Copy this IP address and use it when accessing your Gateway from within your home.

Question: The Home Status page is responding very slowly. How do I fix this?

Answer: If you have many Z-Wave modules in your network or one is out of reach or no longer working, this can cause lag in your network speed as the network continuously tries to contact the module. Figure out which module is causing problems and delete it from your network using the remote control. If you wish to add it in a new location (if it is in functioning condition) you can do so with your remote control. You will need to access the 'Setup' page on the web interface to re-add the module to your home layout.

Question: I forgot my login to my Gateway. What do I do?

Answer: Go to www.cell-link.homeremote.net, on the login page there should be a link that says: 'Forgot Password.' Click this link, enter your Email and your password will be emailed to you shortly.

Question: Device Linking takes a long time to adjust all devices. Why is this?

Answer: Device Linking works in a chain reaction fashion. The Master device will send a command to the next device and so on. If you have a large Linking setup it may take awhile to change all modules successfully. The less modules you have the faster the feature will work.

Question: How do I create a Scene, Alert or Device Link?

Answer: Go to the Device Management page on the web interface and click on the link that will add the feature you wish to add.

Question: How do I set schedules for single modules or a group of modules?

Answer: Setting schedules for your HomeRemote system is done through your Scenes. If you wish to only schedule one module to turn on or off you would need to create a Scene with only a single module in it. To set the schedule for this Scene, use the scheduling menu in the Scene setup page.

Question: How do I schedule or turn my alerts off?

Answer: From the 'Home Status' page there is the option of 'BYPASSING' any Scene or Alert you have previously created. Bypassing will basically turn off this feature. For Scenes 'bypassing' will bypass a previously scheduled event for the Scene. For Alerts, 'bypassing' will bypass the alert and the user will not receive the alert while the notification is bypassed.

Question: Where do I go to add more devices to my system?

Answer: If you are planning on expanding your system with more modules, you will need to use the web interface to do so. First add the new modules into your remote control. Next access the Setup page of the web interface, go to 'Setup,' then go to Add / Remove Devices and transfer your settings from your remote to your Gateway. Name the new devices as they are added in.

Question: How do I set a one time schedule?

Answer: Under the Control page you can set Quick Timers. Quick Timers allow your system to set a ON/OFF activity for single use. For example, if you are leaving the house and you want all lights off after you leave so you don't fall in the dark. You can do so by using a 5 minute Quick Timer.

Question: Can more than one person access the HomeRemote Web Interface at the same time?

Answer: Yes. Multiple instances of the interface running is not a problem. However you may want to be careful how many people you give access to for security purposes.

15.5 - HomeRemote Cell Link Interface and Web Portal

Question: What is Cell-Link?

Answer: Cell-Link allows you to control your Hawking HomeRemote home automation system through a graphical interface on your cellular phone. Cell-Link provides virtually unlimited range for the customer to monitor and control their HomeRemote home automation system including monitoring of IP cameras.

Question: How do I get Cell-Link software on my cell phone?

Answer: Cell-Link software can be downloaded over the air, similar to how ringtones, pictures and games are downloaded to cell phones. A text message is sent to the phone with a link that can typically be followed by "Go", "Go To", "Follow URL" or a similar command. Goto www.cell-link.homeremote.net for specific instructions on how to download Cell-Link to your phone.

Question: With which cellular carriers is Cell-Link compatible?

Answer: Cell-Link works with most phones on the Cingular, Sprint, Nextel and T-Mobile networks. Cell-Link does not currently work on phones for Verizon or Alltel, but check back often to see if these carriers are added. To help us get approved with Verizon or Alltel, submit your feedback here.

Question: Do I need an internet data plan associated with my cellular voice plan?

Answer: Yes, because Cell-Link uses the internet to send data back and forth between your phone and your home, an internet data plan is necessary. Some cellular carriers offer 'a la carte' data plans that allow you to send data over the internet and pay for each usage rather than a fixed monthly fee for a fixed amount of data usage. However, it may be more cost effective to add a data plan to your voice plan in order to use the Cell-Link system. If you do not have a data plan and your carrier does not offer an 'a la carte' method of sending data, you will have to contact your cellular carrier to add a data plan to your phone.

Question: What do I do if I change cellular service providers?

Answer: Go to the “My Phones” tab to add your new phone to your subscription and remove the old one. If you change cellular carriers, you may not be able to carry-over your Cell-Link subscription if the new carrier is not compatible

Question: What do I do if I change my phone number?

Answer: If your phone number changes then you must download the Cell-Link software to your phone again to update our records and allow your new phone number to be recognized by our system. You must also change your primary mobile phone number in the ‘My Account’ section of the Cell-Link Customer Portal. . Go to the “My Phones” tab to add your new phone to your subscription and remove the old one.

Question: I lost my phone. How do I disable Cell-Link on my old phone?

Answer: Log into the Customer Portal at www.cell-link.homeremote.net, select the “My Phones” tab. Select “Remove This Phone” in the information box for the phone you want to remove.

Question: What do I do if I get a new phone?

Answer: If you get a new phone then you must download the Cell-Link software to your new phone and get a new activation code through the Customer Portal to allow your new phone to control and monitor your home automation system. Go to the “My Phones” tab to add your new phone to your subscription and remove the old one.

Question: Do I need a special cell phone to make Cell-Link work?

Answer: Cell-Link works with most modern cell phones that are capable of connecting to the internet. Most phones with color displays have this capability, but it depends on the make and model of your phone as well as your cellular carrier. Most cellular carriers have this information available through their website. You may also test your phone’s compatibility by downloading the Cell-Link demo and selecting Test Connection from the Menu.

Question: Can more than one phone control my home? How do I add another phone to my Cell-Link system?

Answer: Multiple phones can control one home automation system! Login to the Cell-Link Customer Portal to add another phone to your Cell-Link account. Select the “My Phones” tab and “Add Phone” to add a phone. Follow the steps in the wizard to complete the addition.

16 – HomeRemote Gateway Specifications and Ranges

Management Software Ranges:

- Maximum Z-Wave modules that can be added to the Gateway: 232
- Maximum Cameras that can be added to the Gateway: 32
- Maximum Scenes that can be added to the Gateway: 64
- Maximum Thermostats that can be added to the Gateway: 16
- Maximum amount of modules that can be added to Scenes: 1024
- Maximum amount of Rooms/Areas that can be added to the Gateway: 64
- Maximum amount of Schedules that can be set: 128
- Maximum amount of Notification User Accounts: 16
- Maximum Login Password length: 16

Network Specifications:

- 100T Base-TX Fast Ethernet
- Z-Wave US Operating Frequency

Hardware Interface:

- LAN Port: (1) RJ-45, 10/100M, Auto-sensed
- One non-removable antenna (Z-Wave)
- External Power Supply Connector
- LEDs: Power, Z-Wave activity and Network connection
- Reset Button

HTTP/Utility:

- Web Management Interface
- CD based Setup Wizard
- Web based cellular management utility (Cell Link)

Dimensions:

- Gateway: 6.6" x 3.75" x 1.6" (L x D x H)
- Giftbox: 10.5" x 3.5" x 7.5" (L x D x H)
- Remote: 6" x 2.25" x 0.75" (L x D x H)

Operating Environment:

- Temperature: 0 - 40o C / 32 - 104o F
- Humidity: 85% RH

Certifications:

- FCC, CE