

IMW-C870W

User Manual

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4G Information	錯誤! 尚未定義書籤。
Firewall.....	錯誤! 尚未定義書籤。
Router.....	錯誤! 尚未定義書籤。
System	錯誤! 尚未定義書籤。
Device Log.....	錯誤! 尚未定義書籤。
Help	錯誤! 尚未定義書籤。

Chapter 1. Attention

- Don't use in high humidity place.
- Use in the clean place.
- Install on the safe place without dropping.
- Don't use and keep around electromagnetic waves.
- Don't put the goods on heavy things.
- Don't install and use in the Sun lights directly.
- Don't throw or dismantle the goods.
- Don't heat the goods and battery.
- Protect the goods from pets and children.
- Don't put the goods and battery in the water.
- Don't hold power adaptor in the wet hands.

Chapter 2. Introduction & Requirements

Introduction of goods

What is the IMW-C870W ?

- ⇒ IMW-C870W is a mobile WiMAX iPod4G Jacket Router device and a very inventive product for Portable Mobile WiMAX & WiFi Dual CPE(Customer Premises Equipment) enabling solution of the problem of lack in user terminals possible to use Mobile WiMAX service. When IMW-C870W is left in pocket or bag with its power on in the area where Mobile WiMAX service is available, user can make concurrent connection to many WiFi terminals by using WiFi transmitted by IMW-C870W , so it enables free use of wireless internet in any area.
- ⇒ IMW-C870W included WiFi AP support Mobile WiMAX Service through WiFi can be supported portable devices (Laptop, Desktop, PDA and Smart Phone etc.)

System Requirements.

- ⇒ User's device will be installed WiFi (IEEE 802.11b/g) LAN Card or module.
- ⇒ The PC will be Installed USB port.

Specification

	Items	Description
WiMAX	WiMAX Standard Compliance	IEEE 802.16e-2005
	Air Interface	Internal Antenna(0dBi)
	Max output Power	23dBm
WiFi	Network Standard	IEEE 802.11 b/g
	Frequency/Channels	2.4GHz/5Ch.
Power	Battery	Built-in Li-Ion(3.7V/1390mA)
	Adaptor	5V / 2A
Dimension / Weight		113.4.0mm(L)×63.3mm(W)×16.2mm(T)

Application

All device including WiFi 802.11b/g such as;
Personal computer (Desktop and Note PC)
Smart Phone
Tablet PC and iPad
Game palyer

The points of name & Components list

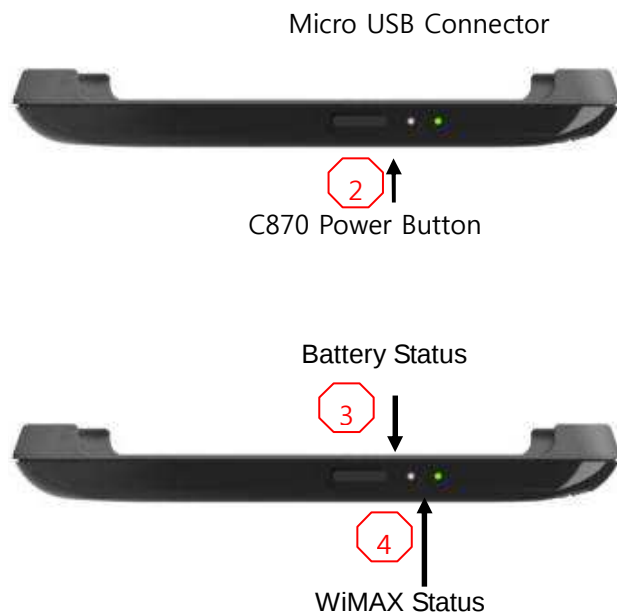
Components List in the package.



- ① IMW-C870W
- ② Adaptor [5V / 2A] (Optional)
- ③ User's Manual
- ④ Plug
- ⑤ USB Cable

Points of name & Function





- ① USB Port : Battery charging and Tethered operation
- ② Power button
Press : Power on & off
- ③ Battery Status : battery status and power (Color : Orange / Green / Red)
- ④ WiMAX Status: WiMAX Signal strength (Color : Orange / Green / Red)

LED Status Scenario

WiMAX Signal LED

Off	Power Off
Orange LED On and Off	Frequency scanning or ready
Red LED On and Off	Connecting with WiMAX network
Red LED On	WiMAX signal level 1
Orange LED On	WiMAX signal level 2 ~ 3
Green LED On	WiMAX signal level 4 ~ 5

Power LED

Remained battery (100% ~ 50%)	Green color
Remained battery (50% ~ 20%)	Orange color
Remained battery (20% ~ 0%)	Red color
Battery charging	Red color
Battery full charging	Green color

Chapter 3. How to use the IMW-C870W

Power ON/OFF

Power ON : Press the power switch for 3 Seconds.

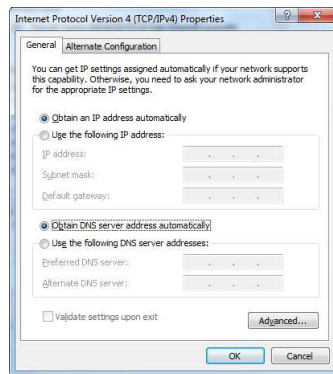
Power OFF : Press the power switch for 5 Seconds.

How to charge battery

The built-in battery can be charged from either USB cable or wall Charger (Optional)

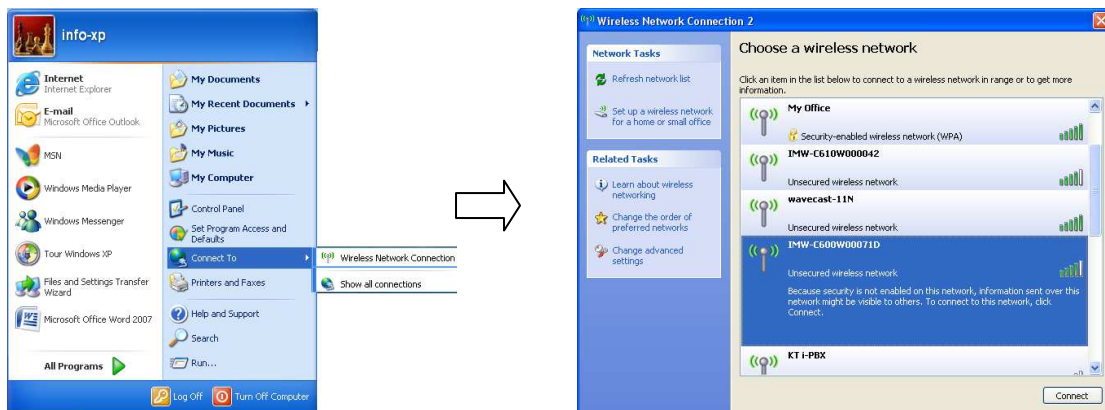
Setting of the WiFi AP

Notice : Configuration of WiFi AP has to be set to “Obtain IP address and DNS sever address automatically”.



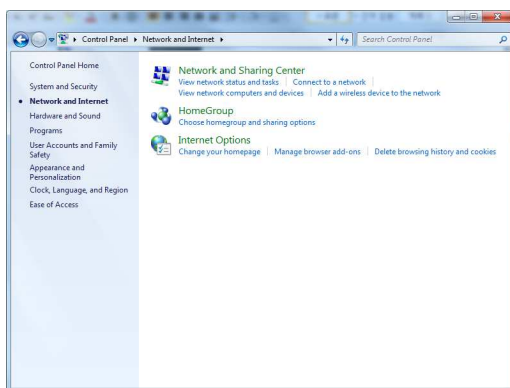
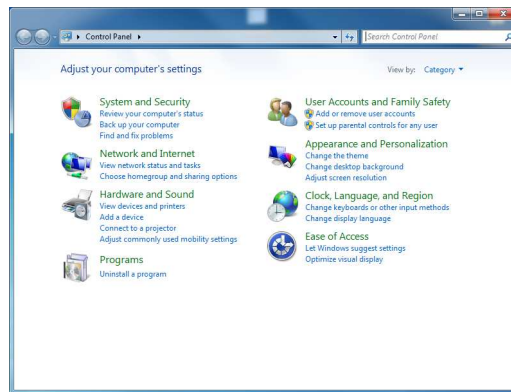
Setting with Window XP

- <Start> → <Connect to> → <Wireless Network Connection> → Choose WiFi AP of IMW-C870W in the list



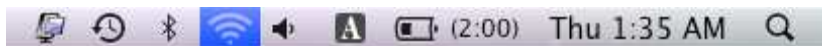
Setting with Window 7

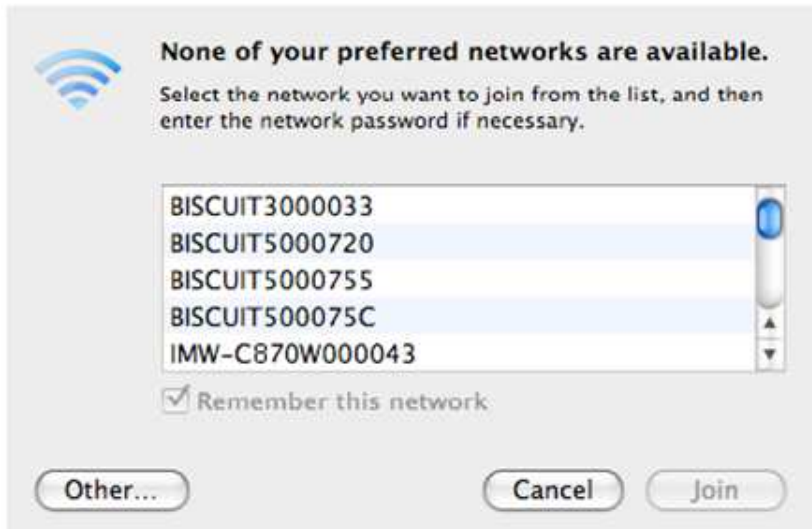
- <Start> → <Control Panel> → <Network and Internet> → <Connect to Network>
→ Choose the WiFi AP of IMW-C870W in the list



Setting with Mac OS

- Click the wireless Icon on the menu → Choose the WiFi AP of IMW-C870W in the list





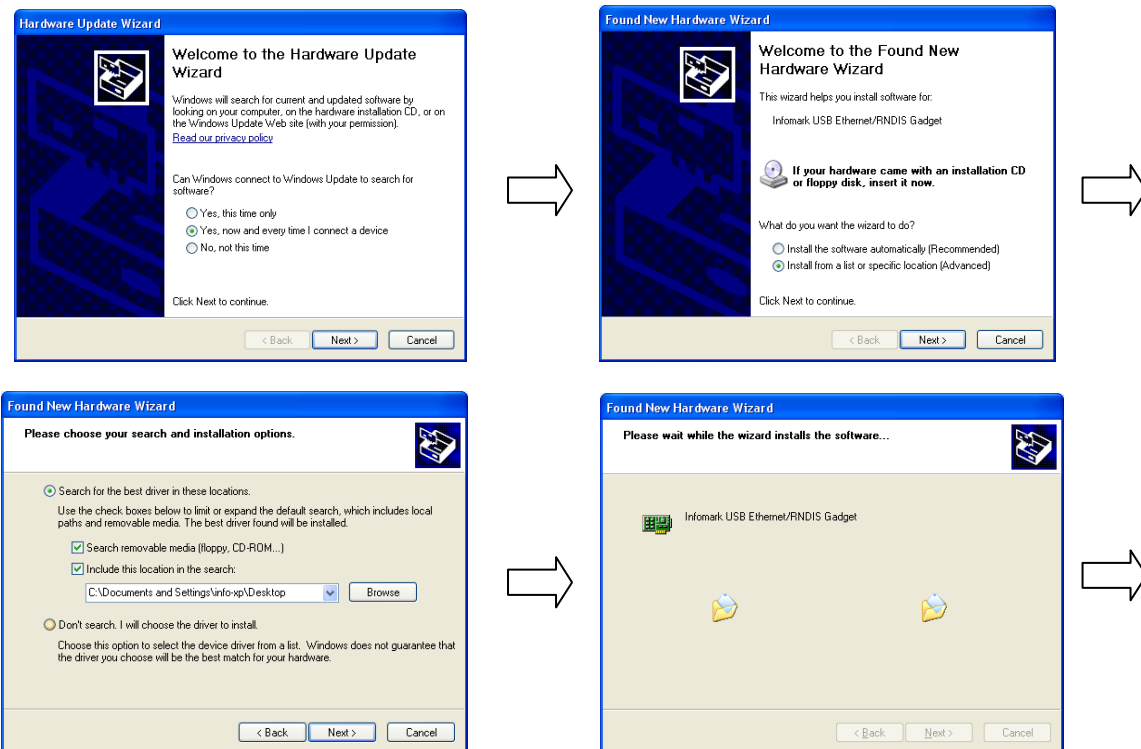
Setting of USB (RNDIS)

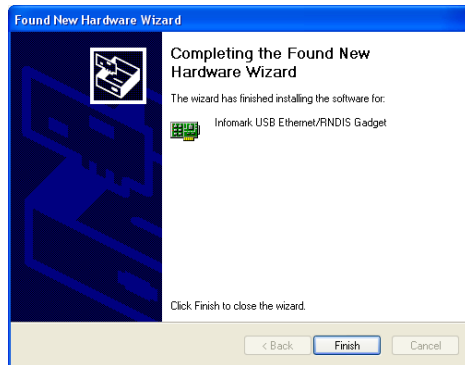
Notice :

1. Your PC connected to web server of IMW-C870W through WiFi.
2. Driver of RNDIS can down load from web sever of IMW-C870W .
3. Refer to USB Driver Page No. XX for download.

Setting with Window XP

1. IMW-C870W should be connected with PC by USB cable.
2. Below is each step of RNDIS installation.

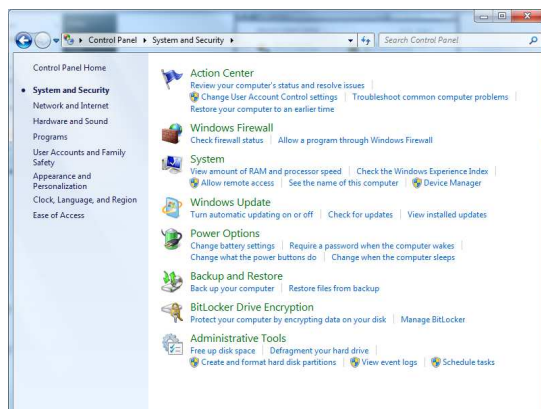
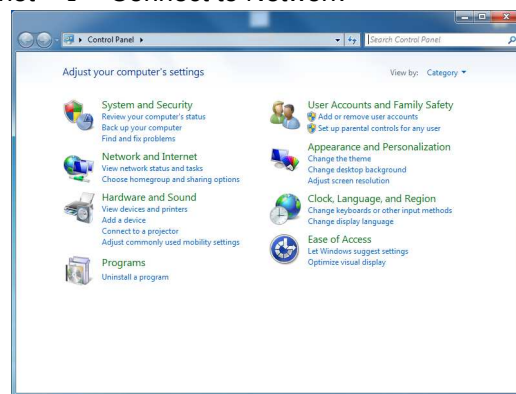




Setting with Window 7

1. IMW-C870W should be connected with PC by USB cable.
2. Below is each step of RNDIS installation.

<Start> → <Control Panel> → <Network and Internet> → <Connect to Network>

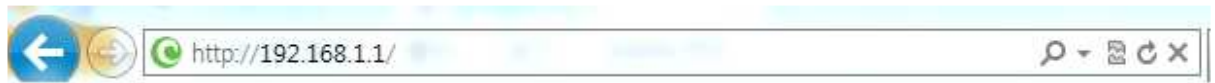


Chapter 4 Configuring CM

Connect to Web CM (Web Connection Manager)

Start CM

- Use web browser to connect Web CM
- Type Address 192.168.1.1

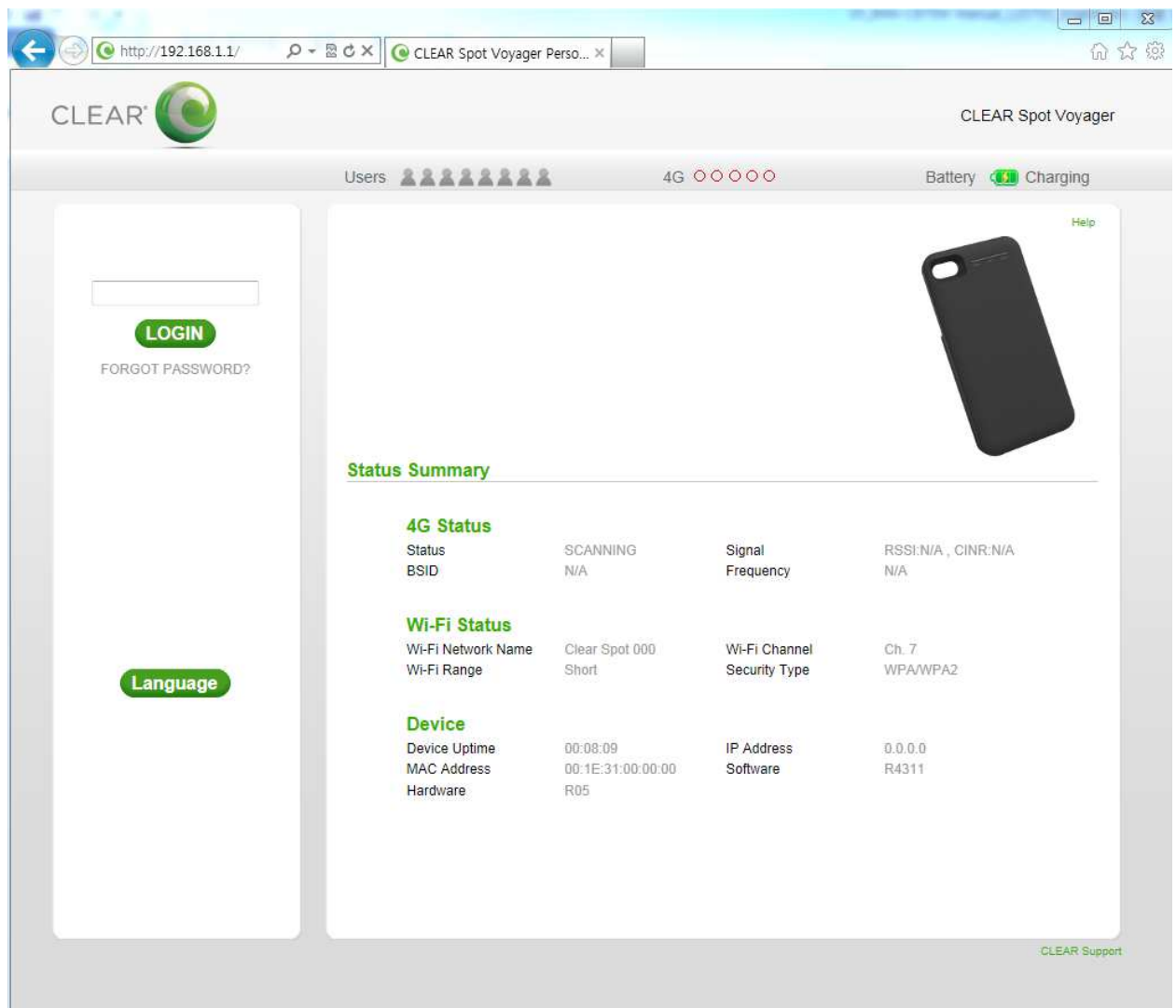


※ Microsoft Internet Explorer is recommended

Input ID

- A Pop-up window will requests for specific ID to enter into Web CM

ID : admin



■ Description of Web User Interface

- **Status**

Display device information and basic configuration of device.

The screenshot displays the CLEAR Spot Voyager web interface in a browser window. The address bar shows the URL `http://192.168.1.1/`. The page header includes the CLEAR logo and the title "CLEAR Spot Voyager". Below the header, there is a status bar with "Users" (represented by icons), "4G" status (with five red circles), and "Battery" (with a green charging icon and the text "Charging").

The main content area is divided into two columns. The left column contains a sidebar with a "LOGOUT" button and a menu with the following items: "Summary" (highlighted in green), "Device Setup", "Device Update", "Wi-Fi Settings", "Advanced Settings", and "Help".

The right column displays the "Status Summary" page. At the top right of this section is a "Help" link and an image of a black smartphone. Below the image, the "Status Summary" is organized into three sections:

- 4G Status**

Status	SCANNING	Signal	RSSI: N/A , CINR: N/A
BSID	N/A	Frequency	N/A
- Wi-Fi Status**

Wi-Fi Network Name	Clear Spot 000	Wi-Fi Channel	Ch. 7
Wi-Fi Range	Short	Security Type	WPA/WPA2
- Device**

Device Uptime	00:09:53	IP Address	0.0.0.0
MAC Address	00:1E:31:00:00:00	Software	R4311
Hardware	R05		

The bottom right corner of the page features a "CLEAR Support" link.

■ Device Setup

● Setup Wizard

Setting Web CM Password, Time Zone and SSID/WPA security code

The screenshot shows a web browser window with the URL <http://192.168.1.1/>. The browser tab is titled "CLEAR Spot Voyager Perso...". The web interface has a header with the CLEAR logo and the text "CLEAR Spot Voyager". Below the header, there is a status bar showing "Users" with 8 user icons, "4G" with 5 signal strength indicators, and "Battery" with a charging icon and the text "Charging".

On the left side, there is a sidebar menu with a "LOGOUT" button at the top. Below it, the menu items are: "Summary" (highlighted in green), "Device Setup", "Device Update", "Wi-Fi Settings", "Advanced Settings", and "Help".

The main content area is titled "Status Summary" and features a large image of a black smartphone. Below the image, there are three sections of status information:

- 4G Status**

Status	BSID	Signal Frequency	RSSI: N/A, CINR: N/A
SCANNING	N/A		
- Wi-Fi Status**

Wi-Fi Network Name	Wi-Fi Range	Wi-Fi Channel/ Security Type	Ch. 7 WPA/WPA2
Clear Spot 000	Short		
- Device**

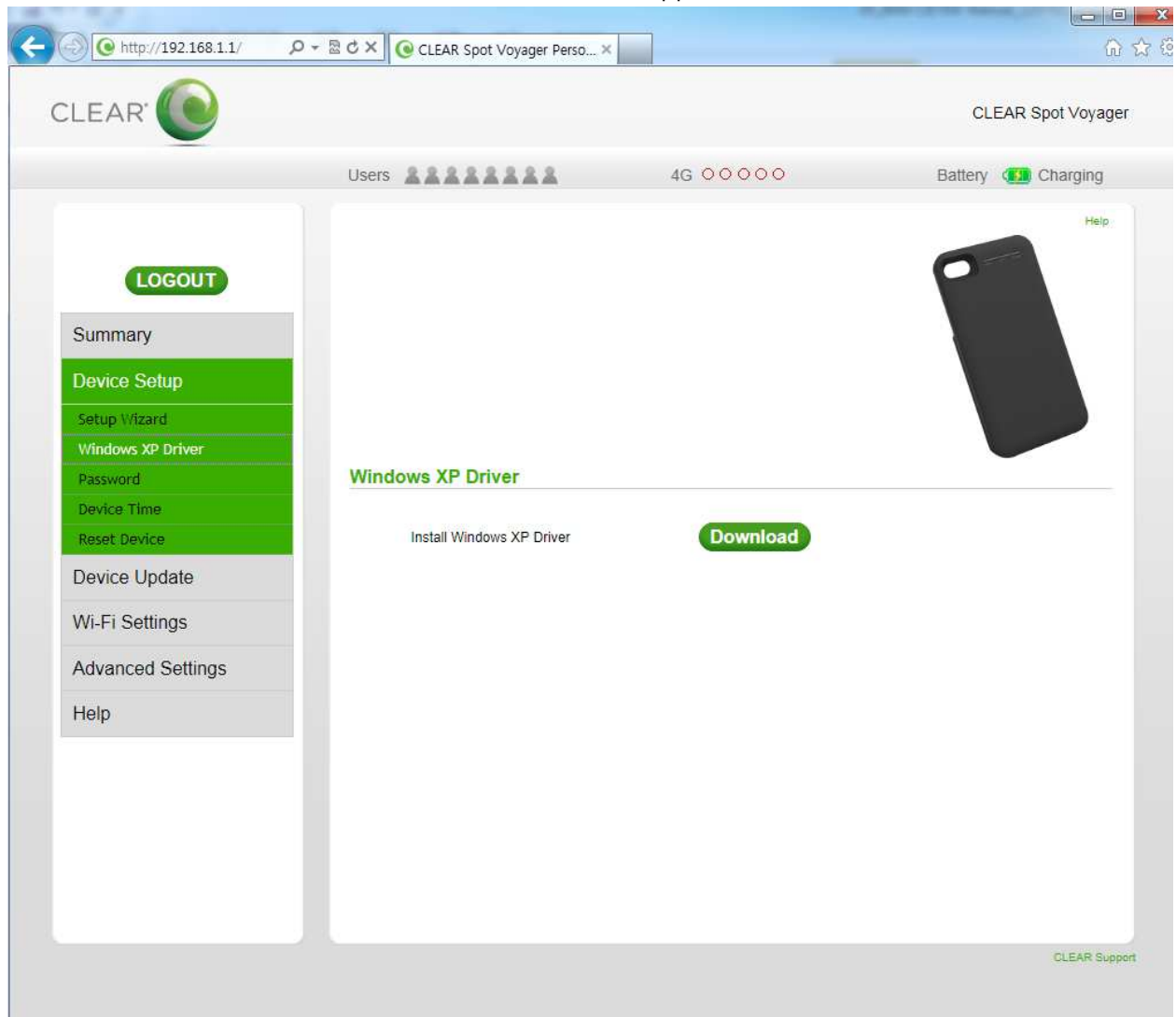
Device Uptime	MAC Address	Hardware	IP Address	Software
00:09:53	00:1E:31:00:00:00	R05	0.0.0.0	R4311

At the bottom right of the page, there is a link for "CLEAR Support".

- **Windows XP driver**

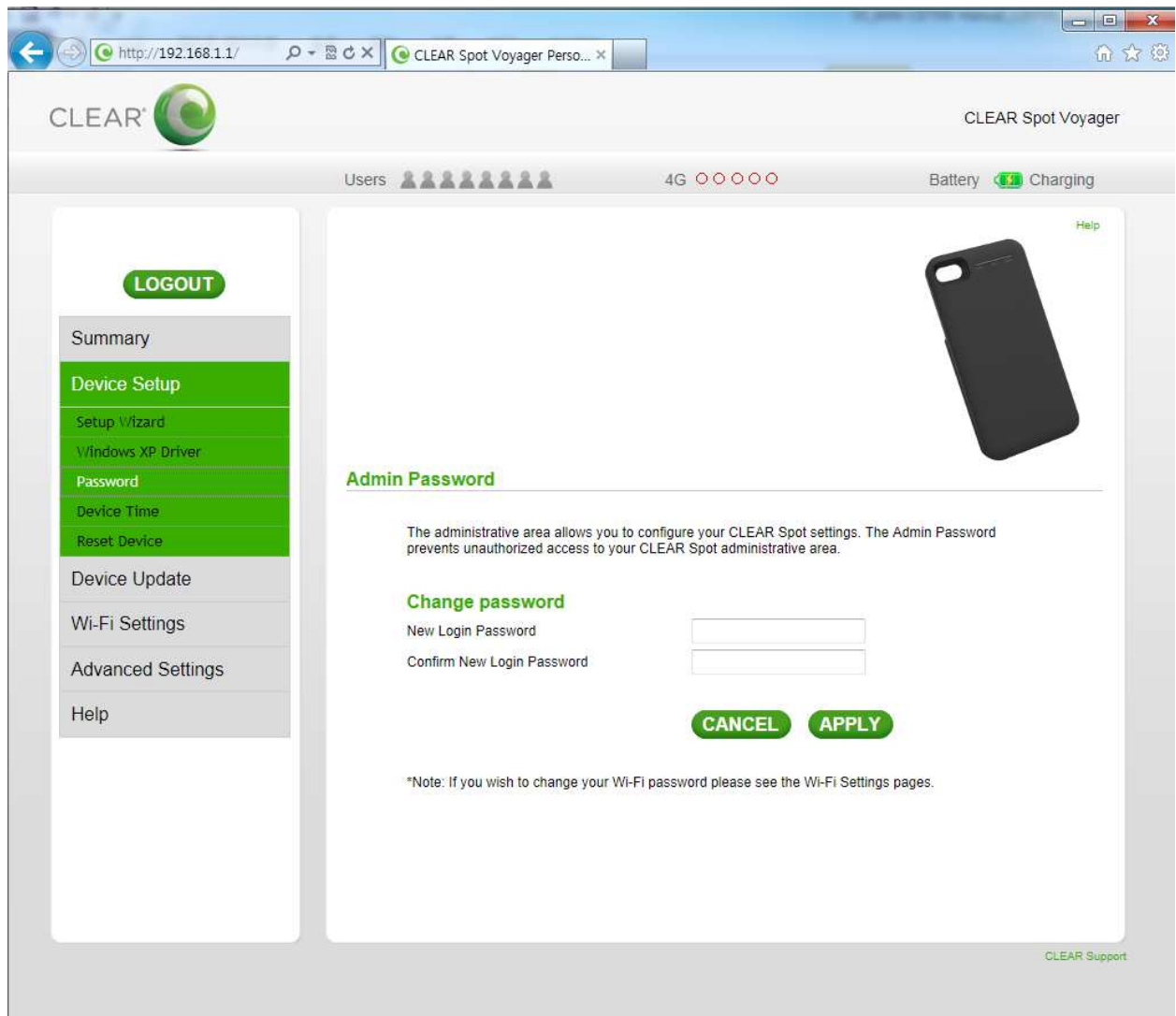
The RNDIS driver can download on this page for Windows XP.

In case of Windows Vista and Windows 7, the driver is supported.



- **Password**

The password can be changed.



The screenshot shows a web browser window with the address bar displaying `http://192.168.1.1/` and the page title "CLEAR Spot Voyager Personal". The interface features a top navigation bar with the CLEAR logo, the title "CLEAR Spot Voyager", and status indicators for "Users" (6 icons), "4G" (5 signal strength icons), and "Battery" (charging icon). A left sidebar contains a menu with options: "LOGOUT", "Summary", "Device Setup" (highlighted), "Setup Wizard", "Windows XP Driver", "Password", "Device Time", "Reset Device", "Device Update", "Wi-Fi Settings", "Advanced Settings", and "Help". The main content area is titled "Admin Password" and includes a description: "The administrative area allows you to configure your CLEAR Spot settings. The Admin Password prevents unauthorized access to your CLEAR Spot administrative area." Below this, there is a "Change password" section with two input fields: "New Login Password" and "Confirm New Login Password". At the bottom of this section are "CANCEL" and "APPLY" buttons. A note at the bottom states: "Note: If you wish to change your Wi-Fi password please see the Wi-Fi Settings pages." The bottom right corner of the page has a "CLEAR Support" link.

CLEAR Spot Voyager

Users 4G Battery Charging

LOGOUT

Summary

Device Setup

Setup Wizard

Windows XP Driver

Password

Device Time

Reset Device

Device Update

Wi-Fi Settings

Advanced Settings

Help

Admin Password

The administrative area allows you to configure your CLEAR Spot settings. The Admin Password prevents unauthorized access to your CLEAR Spot administrative area.

Change password

New Login Password

Confirm New Login Password

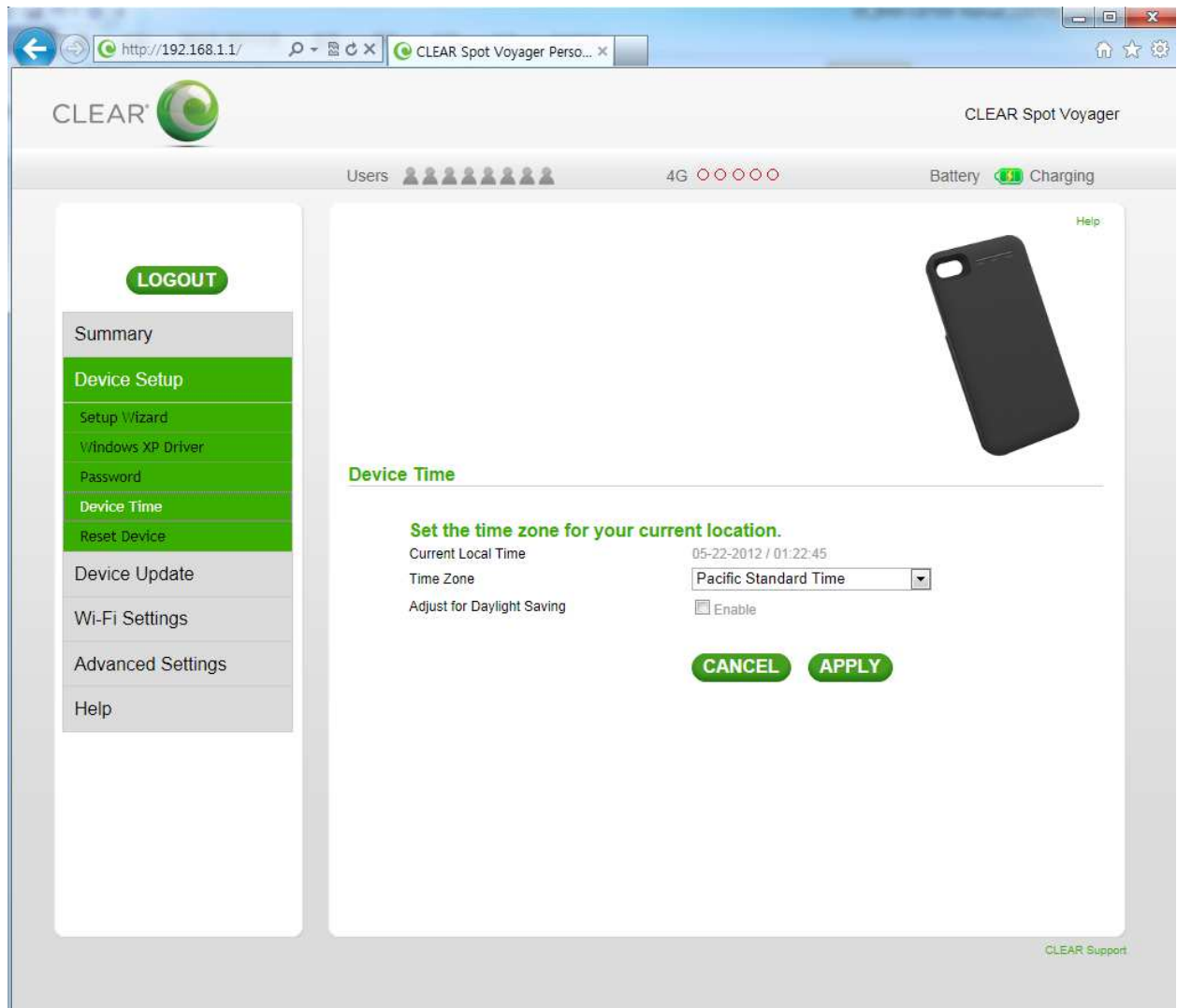
CANCEL APPLY

*Note: If you wish to change your Wi-Fi password please see the Wi-Fi Settings pages.

CLEAR Support

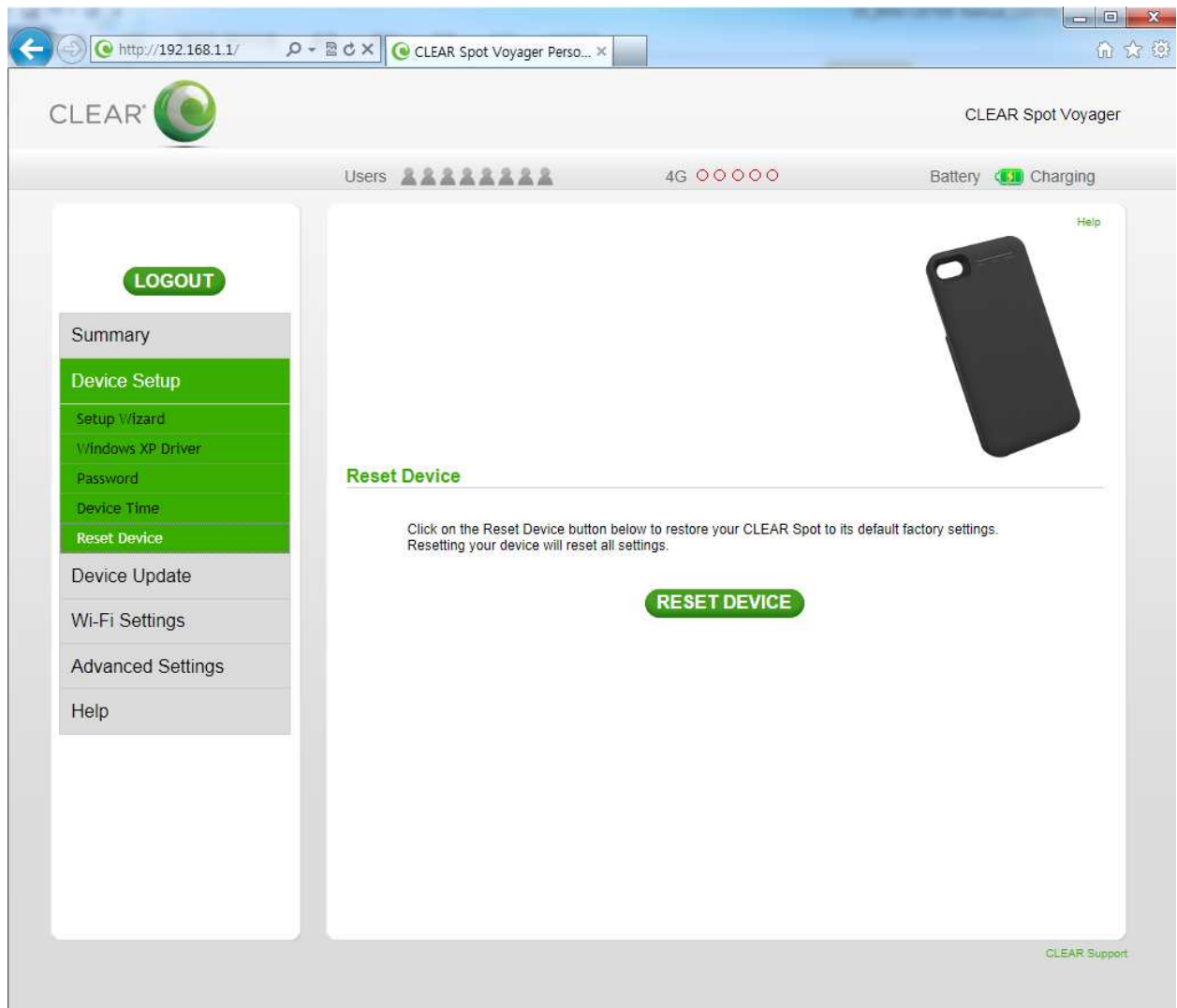
- **Device Time**

Setting Time Zone.



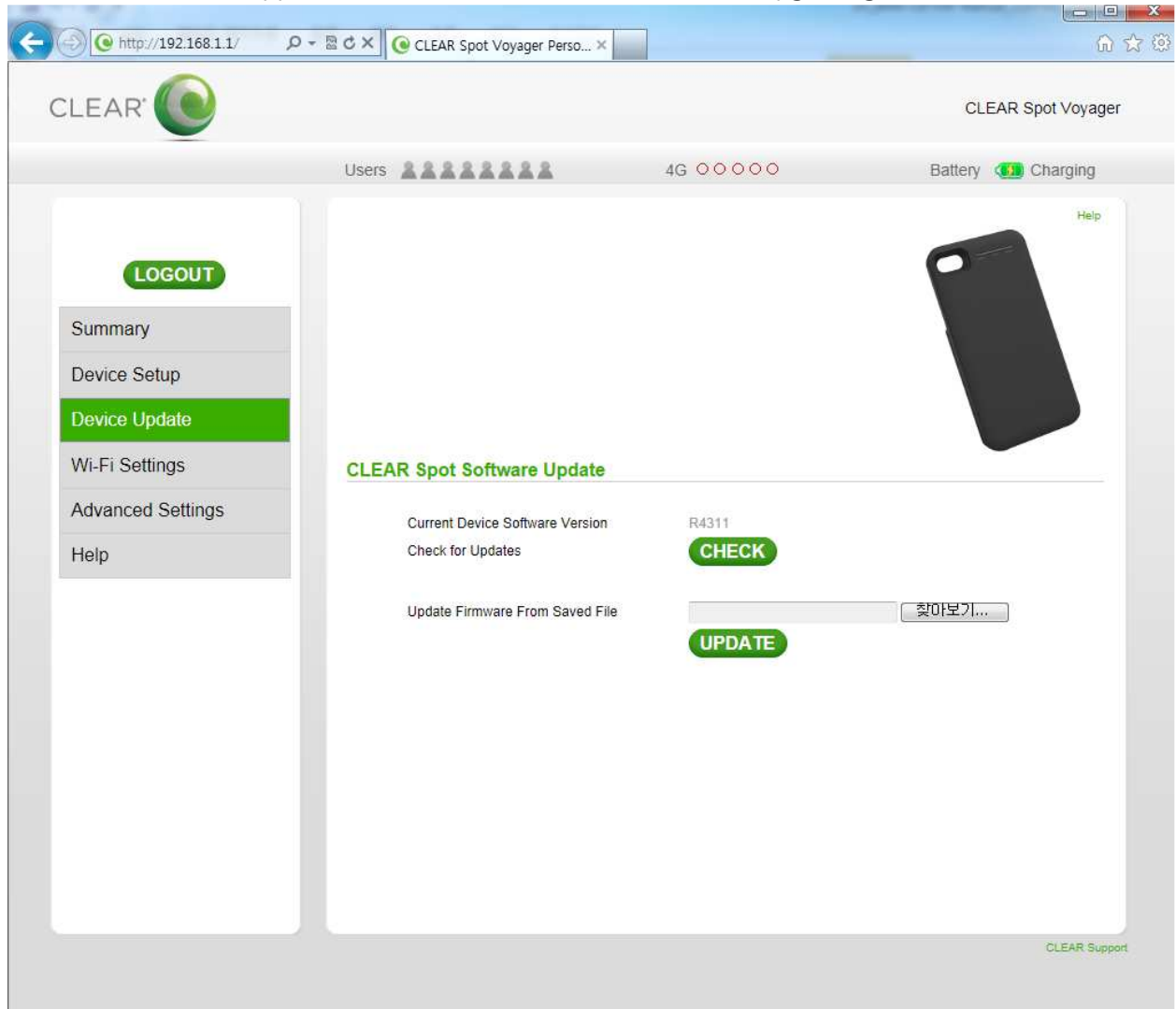
- **Reset Device**

If <RESET DEVICE> button is clicked, the device has to roll back to factory default configuration.



■ Device Update

The device supports to auto FOTA, manual FOTA and user upgrading



- **Auto FOTA upgrading**

In case that new firmware exists in FOTA server. This device check new firmware version and if there is new firmware in FOTA server, this device is going to be upgraded automatically.

The WiMAX LED is blinking with red color during upgrading.

- **Manual FOTA upgrading**

In case that new firmware exists in FOTA server. User can check and upgrade new firmware in FOTA server manually.

The WiMAX LED is blinking with red color during upgrading.



- **User upgrading**

In case that operator releases new firmware to end user, user can upgrade by himself

Update Firmware From Saved File

찾아보기...

UPDATE

■ Wi-Fi Settings

- **Basic**

Set basic configuration of Wifi.

CLEAR

CLEAR Spot Voyager

Users 4G Battery Charging

LOGOUT

Summary

Device Setup

Device Update

Wi-Fi Settings

Basic

Advanced

Advanced Settings

Help

Help

Basic Wi-Fi Settings

Enable Wi-Fi

Network Name(SSID)

Authentication

Encryption

Wi-Fi Password

☒

IMW-C870W

WPA/WPA2-Mixed PSK

Auto

31000000

CANCEL

APPLY

CLEAR Support

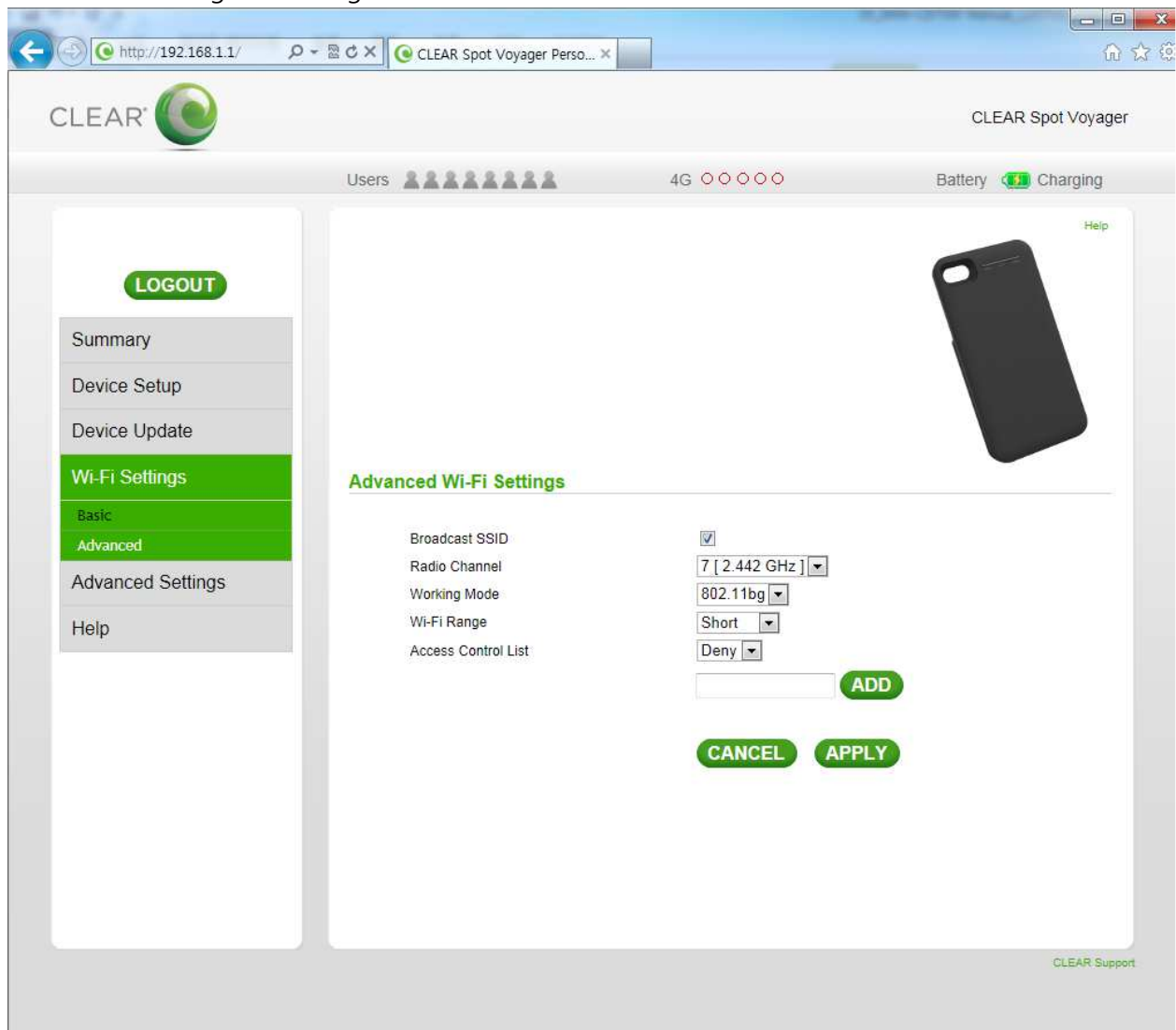
- Network Name(SSID) : Set name of WiFi AP.
- Security method : Set security method for WiFi.

Network Name(SSID)	IMW-C870W
Authentication	WPA/WPA2-Mixed PSK

- The set configure should be saved after clicking <APPLY> button.

● Advadced

Setting WiFi configuartion details.



- Broadcast SSID : Show name of WiFi AP
- Radio Channel : WiFi channel can be changed
- Working Mode : WiFi mode can be changed
- Tx Power : The signal level of Wi-Fi can be changed
- Access Control List : Mac address filtering of WiFi client device

Broadcast SSID	☒
Radio Channel	Auto
Working Mode	802.11bg
Wi-Fi Range	Long
Access Control List	Deny

■ Advanced Settings

- **4G Information**

Connected status and information of device display

The screenshot shows the CLEAR Spot Voyager web interface. The browser address bar displays `http://192.168.1.1/`. The page header includes the CLEAR logo and the title "CLEAR Spot Voyager". Below the header, there are status indicators for "Users" (7 icons), "4G" (5 red circles), and "Battery" (charging icon and "Charging" text). The left sidebar contains a menu with options: Summary, Device Setup, Device Update, Wi-Fi Settings, **Advanced Settings** (highlighted), 4G Information, Firewall, Router, System, Device Log, and Help. At the bottom of the sidebar are "LOGOUT" and "REBOOT" buttons. The main content area is titled "4G Information" and features a smartphone icon with a "Help" link. Below the icon, there is a "Link Stats" section with a table of 4G parameters. At the bottom, there is a "Neighbor List" section with a table header.

4G Information

Link Stats

4G Status	Scanning	BSID	-
Frequency	-	Preamble	3
NAP ID	000000	RSSI	-
CINR	-	RSSI Ant 1	-64
CINR Ant 1	23	RSSI Ant 2	-70
CINR Ant 2	20	TX Power Mean	-84
TX Power	-	Device Uptime	00:39:00
MAC Address	00:1E:31:00:00:00	4G Connect Time	N/A
IP Address	0.0.0.0		

Neighbor List

BSID	Frequency	Bandwidth	CINR	RSSI	PI
------	-----------	-----------	------	------	----

CLEAR Support

- **Firewall**

Setting the firewall

The screenshot shows a web browser window with the address bar displaying `http://192.168.1.1/` and a tab titled "CLEAR Spot Voyager Perso...". The browser window contains the CLEAR Spot Voyager web interface. At the top, the CLEAR logo is on the left, and "CLEAR Spot Voyager" is on the right. Below the header, there is a status bar showing "Users" with 8 icons, "4G" with 5 signal strength indicators, and "Battery" with a charging icon and the text "Charging". The main content area is divided into two columns. The left column is a sidebar with a "LOGOUT" button at the top, followed by a list of menu items: "Summary", "Device Setup", "Device Update", "Wi-Fi Settings", "Advanced Settings" (highlighted in green), "4G Information", "Firewall" (highlighted in green), "Router", "System", "Device Log", and "Help". At the bottom of the sidebar is a "REBOOT" button. The right column displays the "Firewall Settings" page. It features a large image of a black smartphone with a "Help" link in the top right corner. Below the image, the title "Firewall Settings" is followed by a paragraph: "The Firewall authorizes internet access to your CLEAR Spot. Please refer to Help for information on the settings." There are three settings: "Enable Web Login from Internet" with a checkbox, "Web Login Port from Internet" with a text input field containing "80", and "Enable ping from Internet" with a checked checkbox. At the bottom of the settings are "CANCEL" and "APPLY" buttons. The footer of the page shows "CLEAR Support" on the right.

CLEAR Spot Voyager

Users 4G Battery Charging

LOGOUT

Summary

Device Setup

Device Update

Wi-Fi Settings

Advanced Settings

4G Information

Firewall

Router

System

Device Log

Help

REBOOT

Firewall Settings

The Firewall authorizes internet access to your CLEAR Spot. Please refer to Help for information on the settings.

Enable Web Login from Internet

Web Login Port from Internet

Enable ping from Internet

CANCEL APPLY

CLEAR Support

- **Router**

Setting additional functions of router.

The screenshot shows the CLEAR Spot Voyager web interface. The browser address bar displays `http://192.168.1.1/`. The page title is "CLEAR Spot Voyager". The interface includes a sidebar with navigation options: Summary, Device Setup, Device Update, Wi-Fi Settings, Advanced Settings (highlighted), 4G Information, Firewall, Router, System, Device Log, and Help. The main content area displays the "Router Settings" section, which includes the following settings:

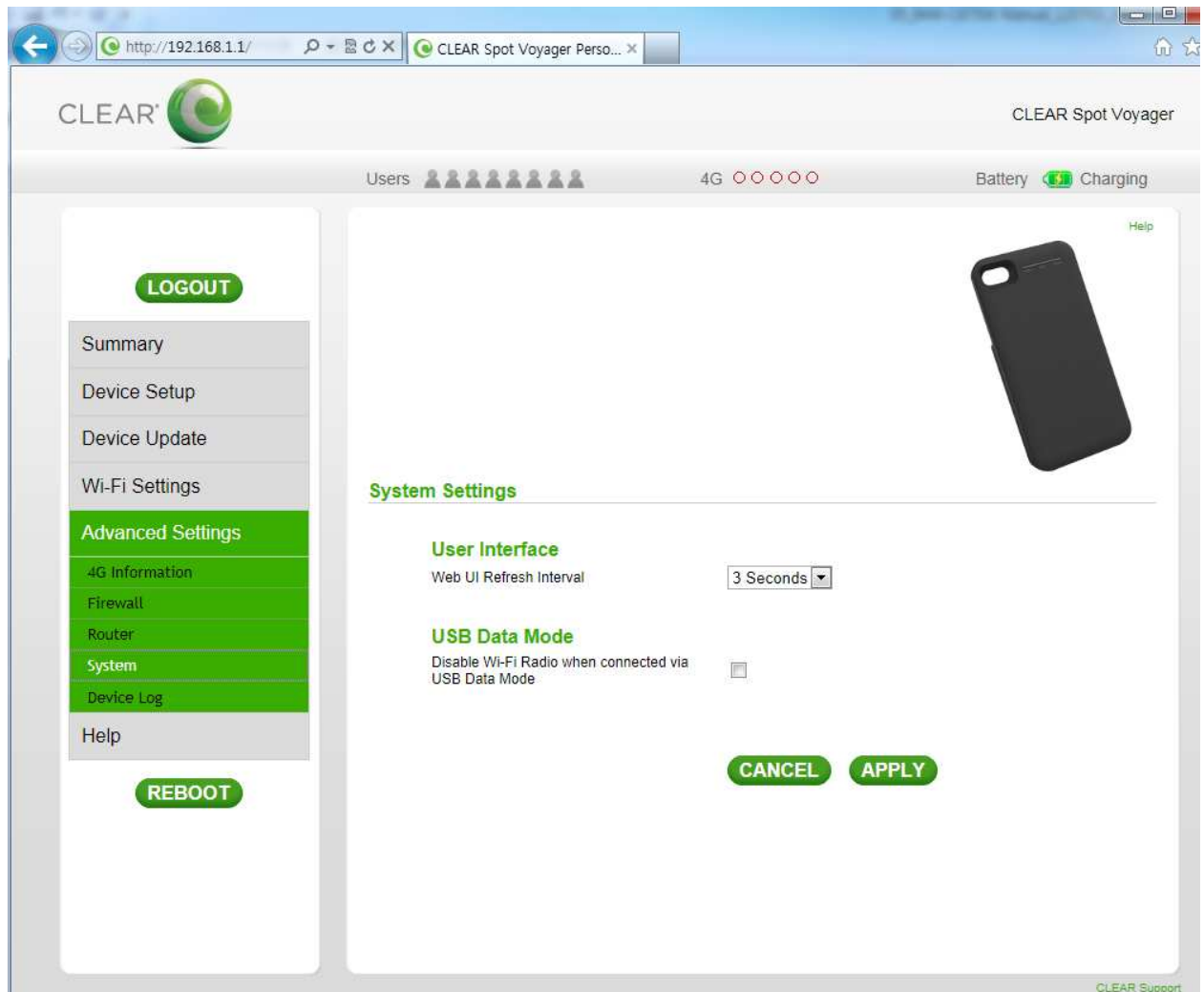
- Universal PnP**: Enable UPnP IGD (checkbox).
- DMZ Host**: Enable DMZ Host (checkbox), DMZ IP Address (192.168.1.1).
- Port Forwarding**: Table with columns: Select, Name, Protocol, WAN Port (Begin, End), LAN IP, and Enabled. A row is shown for TCP protocol, WAN Port range 1-1, LAN IP 192.168.1.1, and Enabled checkbox.
- DHCP Server**: Enable DHCP Server (checkbox), DHCP Server IP Address (192.168.1.1), DHCP Starting IP Address (192.168.1.10), DHCP Ending IP Address (192.168.1.250), and DHCP Lease Time (1 hours).
- DHCP Lease Reservation**: Table with columns: Select, Host Name, MAC Address, and IP Address. A row is shown for MAC Address 00:1A:73:8A:F1:13 and IP Address 192.168.1.12.
- DHCP Lease Status**: Table with columns: Host Name, MAC Address, IP Address, and Remaining Lease Duration. Rows are shown for taewon-PC, yong-PC, and PC790322164187.

Buttons for "LOGOUT", "REBOOT", "DELETE", "ADD", "CANCEL", and "APPLY" are visible throughout the interface.

- Universal PnP : Set the port number for UPnP connection.
This device should be restarted after changing configuration.
- VPN Passthrough : Set VPN Passthrough.
This device should be restarted after changing configuration.
- DMZ Host : Set IP address of device for DMZ function.
- Port Forwarding : Set range of port number and protocol(UDP/TCP/BOTH).
- DHCP Server : Chang DHCP server of local network.
- DHCP Lease Reservation : Fix IP address base on a MAC address.
- DHCP Lease Status : Indicate current status of DHCP Lease Reservation.

- **System**

Setting system configuration of device.



- User Interface : Change refresh interval of WebUI from 1 sec to 5sec.

- **Device Log**

The device log can be shown and download on the PC.

The screenshot displays the CLEAR Spot Voyager web interface in a browser window. The address bar shows the URL `http://192.168.1.1/`. The page header includes the CLEAR logo and the device name "CLEAR Spot Voyager". Below the header, there are status indicators for "Users" (5 icons), "4G" signal strength (5 bars), and "Battery" level (charging icon).

The main content area is divided into two sections. On the left is a sidebar menu with the following items: "Summary", "Device Setup", "Device Update", "Wi-Fi Settings", "Advanced Settings" (highlighted in green), "4G Information", "Firewall", "Router", "System", "Device Log" (highlighted in green), and "Help". Above the "LOGOUT" button is a "REBOOT" button. The "Device Log" section is currently selected.

The right section, titled "Device Log", features a "Device Log" header with a small image of a black smartphone. Below this is an "Export Log File" button labeled "EXPORT". There are also filter options: "Filter" (with checkboxes for "SDK", "Auto CM", "WIMAX", and "DHCP Client", all of which are checked) and "Level" (with radio buttons for "Simple" and "Advanced", where "Advanced" is selected).

The log itself is a text-based list of system events, each preceded by a timestamp and a log level. The log entries include:

- Scanning for channels: `<14>May 22 01:41:37 auto_cm[503]: SCAN_CHANNEL_PLAN ( Freq:(2557000,2557000,10000), 1`
- WIMAX scan reports: `<14>May 22 01:47:27 auto_cm[503]: WIMAX_SCAN_REPORT ( Freq:(2508500,2528500,10000), 1`
- Connection failures: `<14>May 22 01:47:24 auto_cm[446]: Connection failed. (1/3) delay=2`
- Network status: `<14>May 22 01:47:39 auto_cm[446]: No network is found`

The log entries are displayed in a scrollable area with a scrollbar on the right side. The bottom of the page shows the "CLEAR Support" link.

■ Help

Provide device information, Regulatory, Glossary, Online Support and Important Information.

The screenshot shows a web browser window with the URL <http://192.168.1.1/>. The page title is "CLEAR Spot Voyager Perso...". The interface features a "CLEAR" logo and a "CLEAR Spot Voyager" header. Below the header, there are status indicators for "Users" (6 icons), "4G" (5 circles), and "Battery" (charging icon). The main content area is divided into a left sidebar and a right main panel. The sidebar contains a "LOGOUT" button and a list of menu items: Summary, Device Setup, Device Update, Wi-Fi Settings, Advanced Settings, Help (highlighted), About, Regulatory, Glossary, Online Support, and Important Information. The main panel displays a "Help" link, an image of a black smartphone, and a section titled "About your CLEAR Spot". This section includes an "Information" table with details about the device, a "GPL Source Link" section with links to GPL v2 and LGPL licenses, and a "Help" link.

CLEAR Spot Voyager

Users 4G Battery Charging

LOGOUT

Summary

Device Setup

Device Update

Wi-Fi Settings

Advanced Settings

Help

About

Regulatory

Glossary

Online Support

Important Information

Help

About your CLEAR Spot

Information

Product Name	CLEAR Spot Voyager	Hardware	R05
Model ID	IMW-C870W	Software	R4311
Wi-Fi MAC Address	00:1E:31:80:00:00	4G MAC Address	00:1E:31:00:00:00

GPL Source Link

GPL v2 <http://www.infomark.co.kr/oss/gplv2.html>

LGPL <http://www.infomark.co.kr/oss/lgpl.html>

Federal Communication Commission Interference Statement

- This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
- This device has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiated radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
 - ◆ Reorient or relocate the receiving antenna.
 - ◆ Increase the separation between the equipment and receiver.
 - ◆ Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
 - ◆ Consult the dealer or an experienced radio/TV technician for help.

FCC Caution:

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

The antenna(s) used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Note: The country code selection is for non-US model only and is not available to all US model. Per FCC regulation, all WiFi product marketed in US must fixed to US operation channels only.

► RF Exposure Information (SAR)

This device meets the government's requirements for exposure to radio waves.

This device is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission of the U.S. Government.

The exposure standard for wireless device employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6W/kg. *Tests for SAR are conducted using standard operating positions accepted by the FCC with the device transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the device while operating can be well below the maximum value. This is because the device is designed to operate at multiple power levels so as to use only the power required to reach the network. In general, the closer you are to a wireless base station antenna, the lower the power output.

The highest SAR value for the model device as reported to the FCC when tested for use at worn on the body, as described in this user guide, is 1.134 W/kg (Body-worn measurements differ among device models, depending upon available accessories and FCC requirements.)

While there may be differences between the SAR levels of various devices and at various positions, they all meet the government requirement.

The FCC has granted an Equipment Authorization for this model device with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. SAR information on this model device is on file with the FCC and can be found under the Display Grant section of www.fcc.gov/oet/ea/fccid after searching on FCC ID: **YCO-IMW-C870W**.

For body worn operation, this device has been tested and meets the FCC RF exposure guidelines for use with an accessory that contains no metal and be positioned a minimum of 1 cm from the body. Use of other accessories may not ensure compliance with FCC RF exposure guidelines.