Extended Range & High Powered EC Quick Start Guide

WAVE WiFi
On the Water and Online

Wave Wifi suggests initial setup be with a laptop directly.

If initial setup is using a wireless router then be sure that the ethernet cable coming from the EC Unit is plugged into the WAN or "internet" port of your wireless router.

Antennas

All HP units are MiMo capable. MiMo means multiple in-multiple out, which is the ability to use two or more antennas at the same time. This functionality increases data speed and connection quality.

Low Loss antenna cabling

The low loss cable provided with your EC Unit has a male "N" connection that fits to the provided antenna.

☆ When configuring setup using multiple antennas it is always good to stagger mount the antennas at about 3 feet or more away from each other.

EC-HP-DB

Female "N" connection on the antenna

Laptop Computer

Plug one end of the ethernet cable provided into the ethernet port of your laptop computer

Plug one end of the ethernet cable provided, into the ethernet port of your EC unit

Ethernet Cable

Power Cable   Power Supply

ER and HP systems are wired into the ship's low voltage supply: *12 volts only.* Include a line fuse and breaker, and take care with polarity of the DC wires.
RED = POSITIVE / **BLACK** = NEGATIVE

Top View (EC HP)

Female (N) connectors

Bottom View

4-Pin Power port

Ethernet Port

Connecting directly via ethernet port with Laptop:

1.) Open a web browser and type in 192.168.89.1 in the URL bar at the top.
2.) From the network scan page, connect to a network that you are familiar with.
3.) The connection should read, "(Three dots)..., Checking IP, Got Internet".

Connecting wirelessly with a Router:

1.) Connect wirelessly to the router that your EC unit is PHYSICALLY connected to via laptop, tablet or smartphone.
2.) Open a browser and at the top URL bar type: 192.168.89.1
3.) Once on the interface page of the unit, click on a network and type in a passowrd if needed.
4.) The connection should read "(Three dots)..., Checking IP, Got Internet".

ACCESSORIES

Ethernet Protector

Omni directional Antenna

Low Loss Antenna Cable

EC Power Adapter

25ft CAT5e Cable

Spare N Connector

Ethernet Converter ER & HP Units

EC-ER

EC-ER-DB

EC-HP-DB

EC -HP

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Connecting to the EC Unit

Connect the EC Unit's ethernet cable to your computer's Ethernet port or to a router. If using a router make sure that your laptop or tablet is **WIRELESSLY** connected to the router that the EC Unit is **PHYSICALLY** connected to. After several seconds your computer should receive an IP address from the EC Unit (a Windows computer will generally show the message icon "Connected" at the bottom of the screen). Please be sure that the browser you are using it up to date. It may be best to use Mozilla Firefox or Google Chrome if you have the option. Next, Open your browser and type: " 192.168.89.1 " into the address bar and press "enter". The Network Scan page will then open. Depending on the device you are using to manage the Rogue unit; the page looks similar to this. **(SEE BELOW)**
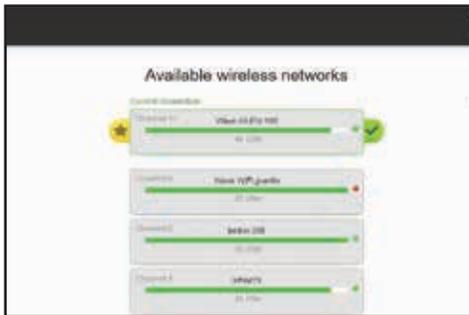
Scanning for HotSpot Networks

If necessary you can refresh the network list by clicking the "Scan" button. The list of wireless networks (HotSpots) is ordered by signal strength: the strongest signals are indicated by the color **GREEN**. You will also see **ORANGE** or **RED** for weaker signals. These bars will also fluctuate as the signal changes around you. To connect to a Hotspot, click on the HotSpot name (SSID). There will be a drop down once you click on the network you are trying to connect to. In the blank space type in a password. The Unit will then attempt to negotiate a connection with the remote Hotspot. During this process the screen will show "Three dots (...), Checking IP, Got Internet".

Do not click on anything until this process is completed. Afterwards click the network that you are connected to, to see your current network status. **(SEE BELOW)**
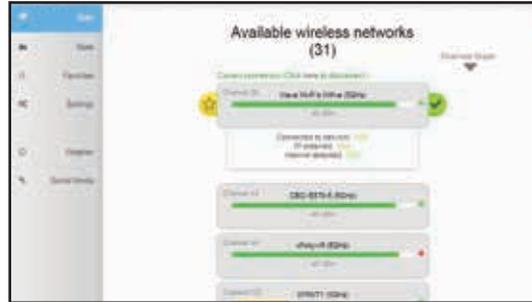
EC Unit Settings

Clicking on the "Settings" tab opens the above page. "Disabling EC Firewall" removes your protection from access by other network users. However, it may be necessary to disable this feature to access some HotSpots. Clicking "reboot" disconnects the EC Unit from the current hotspot and also refreshes the connection. You may have to reconnect after a reboot if the hotspot is not a favorited network. You can also statically set the wireless side of the EC Unit in settings at the bottom left of the page. (Please be sure that you understand IP addressing when changing this function.)

Troubleshooting your EC Unit

- The Serial# and firmware version of your unit is on the "Settings Page".
- The EC Unit's power consumption is regulated 12v -- 1A.
- Try power cycling the unit initially. Meaning to power it off and then on again. This should last 30 secs and should be the EC Unit as well as the router it is connected to.
- If you are seeing poor performance in the gain of your EC Unit then check the low loss antenna cable connections. Make sure that the connectors are on securely and screwed on tightly so that the gold pin is in place. (If you reterminated the low loss antenna cable be sure that it is soldered and crimped. This is usually done by a professional installer).
- Be sure that you are not overpowering or underpowering your EC Unit and causing it to fail.

Follow Prompts for Splash Pages / Captive Portals

Favoriting Hotspots

1.) Connect to the network that you want to favorite.
2.) Once connected, click the yellow star ⭐ to the left of the network bar to favorite the Wi-Fi network source.

TIP: You can see a full listing of all favorited networks in the "favorites" link to the left of the screen. You can also delete a network from your favorites in this same location.

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