

## Hi-Gain™ Wireless-N Dual Radio Smart Repeater

MODEL: **HW2R1**



ALSO INCLUDES 4 PORTS  
FOR WIRED COMPUTERS

### PACKAGE CONTENTS:

- One Hi-Gain™ Wireless-N Dual Radio Smart Repeater
- 3x Hi-Gain Omni Directional Antennas
- One Mac/PC CD (includes User's Manual and Support Utility)
- One RJ-45 Ethernet Cable
- One Power Adapter
- Easy to follow Quick Installation Guide

The **Hi-Gain™ Wireless-N Dual Radio Smart Repeater** is an advanced Wi-Fi connectivity solution that receives the signal of any 802.11b/g/n Wi-Fi network and rebroadcasts it locally within your home or office. The HW2R1 is the flagship product for Hawking's award-winning line of Hi-Gain Wi-Fi Range Extending products. Using two isolated Wi-Fi radios, the HW2R1 connects to your desired wireless Internet connection, such as a local Wi-Fi hot spot, neighborhood wireless network or office network and repeats the signal via a dedicated 300Mbps 802.11n Wi-Fi radio locally. The HW2R1 has 3 Hi-Gain 3dbi omni-directional antennas (1 dedicated for receiving wireless signals and 2 dedicated for rebroadcasting wireless signals within your home or office). The HW2R1 is ideal for Wi-Fi connections to marine docks, RV parks, adjacent offices and homes with Wi-Fi networks or any other source for wireless internet connection. In addition, the HW2R1 provides security and functionality via a full featured firewall and router. The versatility of the Hi-Gain Smart Repeater makes it the perfect solution for any wireless application.

### Features

- Connect and Repeat any 802.11b/g/n Wi-Fi Network
- Provide Wireless Internet Access to hard to Reach Locations
- Eliminate Wireless Dead Spots within your Home or Office
- Dedicated Internet Connection Antenna allows for Long Range Wi-Fi Internet Connections
- Instantly Share and Redistribute a Wi-Fi Internet Connection
- Easy Setup: Install and Configure in less than 1 Minute

### System Requirements:

- Computer (Mac or PC) with 200MHz or faster processor with CD-Rom
- Internet Web Browser (Internet Explorer 4.0 or better, Safari, Mozilla, etc.)
- Compatible Broadband Internet Provider (Wi-Fi or Wired Internet connection)



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**SPECIFICATIONS:**

**Modem Specifications:**

- ◆ RJ-45 Ethernet 10/100M WAN Port
- ◆ 802.11n 150M Wireless WAN
  - Dedicated RJ-SMA Antenna Port
  - Real Time LED Signal Strength Display
  - Supports WPA, WPA2, WEP Wi-Fi Security
- ◆ Network Bridging Mode:
  - Pass through Settings from a wireless Internet connection

**Local Network Specifications:**

- ◆ 4 Port 10/100M Auto Sensing Hub
- ◆ 802.11n 300Mbps Wireless LAN
  - 2 x Dedicated RJ-SMA Antenna Ports
  - Supports WPA, WPA2, WPS (Wi-Fi Protected Setup) WEP Wi-Fi Security
- ◆ Broadband Router Features
  - DHCP Server
  - Firewall
  - Demilitarized Zone (DMZ)
  - Port Forwarding
  - Quality of Service
  - Virtual Servers / Port Forwarding
  - Network Address Translation
  - Access Control
    - Mac Address Filtering
    - IP Address Filtering
  - URL Blocking
  - Denial of Service (DoS)
  - Remote Management

**Hardware Specifications:**

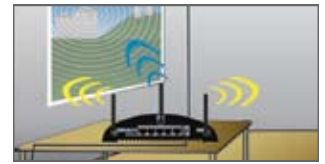
- ◆ Connectors/Ports/Switches
  - 3 x RJ-SMA Antenna Jacks
    - 2 x WLAN, 1 x WWAN
  - 4 x 10/100M Ethernet Ports (LAN)
  - 1 x 10/100M Ethernet Port (WAN)
  - 1 x 12v 1A Power Adapter Port
  - 1 x Reset/WPS Button
  - 1 x WLAN On/Off Switch

**SCAN, CONNECT, & GO!**

It's easy to install, it's easy to use! Everyone can do it.

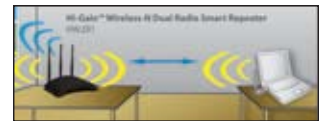
**STEP 1: Power on the Smart Repeater**

Find the optimal location (an area where the Smart Repeater can get the best signal from a wireless source and redistribute it locally) to power on your Smart Repeater.



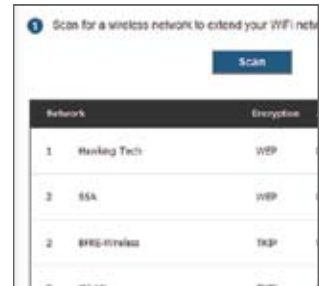
**STEP 2: Connect to the Smart Repeater**

Using an Ethernet cable or Wi-Fi, connect to the Smart Repeater and open the web based Setup Wizard.



**STEP 3: Scan and Connect to outside Wireless Networks**

Scan for nearby wireless networks and connect to your desired network. Its that easy.



**SUPPORT UTILITY:**



The included Windows based Smart Repeater Support Utility is a powerful tool for administrators to configure and troubleshoot wireless connections for multiple Smart Repeaters. The Support Utility allows administrators to upgrade firmware, reset devices to factory settings, adjust IP settings, scan and connect to wireless Internet

networks and view current system settings. The Utility uses a proprietary communication protocol to connect to the Smart Repeater without having to know the correct IP settings.



- Extend and repeat any Wi-Fi signal (802.11b/g/n)
- Advanced router features allow you to secure and manage your extended network
- Redistributes extended home/office wireless connection at 300Mbps using Hi-Gain™ Wireless-300N Technology
- Installs in under a minute! No software required: Simply scan for the wireless Internet network and select the connection. That's it!

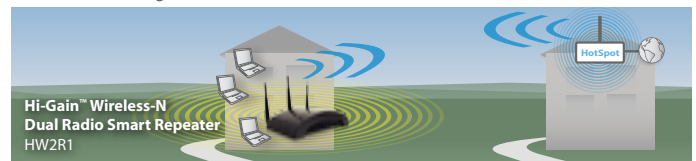
## NETWORK DIAGRAM ▶



## SOLUTIONS ▶

### HOME USE

Connect to a local coffee shop wireless hotspot or a neighborhood Wi-Fi connection



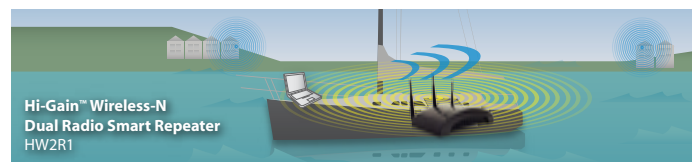
### FOR THE OFFICE

Connect from one office to another wirelessly. Extend your wireless network and share files and Internet access easily



### FOR MARINERS

Connect to an on shore wireless Internet connection to provide wireless Internet access to your boat or yacht



### FOR YOUR RV

Connect to camp ground wireless Internet connection to provide Internet access within your RV



## Maximize your Wireless Signal Strength on the Fly ▶

The Smart Repeater features a LED Signal Strength Indicator that displays the real time signal strength level between your Smart Repeater and the wireless Internet connection. Adjust your antennas or position your Hi-Gain directional antenna on the fly to easily find the optimal location for the best connection with your Internet connection.



- Stable Light ON (>70%):** Good Wireless Internet Connection
- Fast Blinking (36%-69%):** Normal Wireless Internet Connection
- Slow Blinking (<35%):** Poor Wireless Internet Connection
- Stable Light OFF:** Cannot find Wireless Internet Connection

## CONNECTORS ▶

### Dedicated Wireless Internet Antenna

- Connects to wireless networks for Internet connectivity.

### Local Wireless Antennas

- Rebroadcasts wireless signal locally within your home or office.

### Local Wireless On/Off Switch

### Local Wired PC Ports

### Wired Modem Port

