

## Hi-Gain™ Wireless-300N Smart Repeater Pro

MODEL: **HAW2R1**



### PACKAGE CONTENTS:

- One Hi-Gain™ - 300N Smart Repeater Pro
- 2x 3dBi Hi-Gain Omni Directional Antennas
- 1x 13dBi Hi-Gain Omni Directional Antennas
- One Mac/PC CD (includes User's Manual and Support Utility for PC)
- One RJ-45 Ethernet Cable
- One Power Adapter
- Easy to follow Quick Installation Guide

Unleash Your Wireless Network with the powerful dual-radio repeater, HAW2R1 Smart Repeater Pro! The Hi-Gain™ Wireless - 300N Smart Repeater Pro is an advanced Wi-Fi connectivity solution that receives Wireless 802.11b/g/n signals from an open Wi-Fi network and rebroadcasts it locally within your home, office, or local surroundings.

### Technology

Engineered with two Wi-Fi radios (dual-radio design), the Smart Repeater Pro dedicates one Wi-Fi radio to receiving and another to rebroadcasting signals. The receiving radio is accompanied by a power amplified module and a 13dBi Directional antenna that boosts the HAW2R1's receiving strength and allows the unit to connect from a further distance than a regular repeater. The rebroadcasting radio is connected to two 3dBi Omni-Directional antennas that extend the original wireless signal throughout your local surroundings and eliminates wireless dead spots. In addition, the HAW2R1 provides security and functionality via a full featured firewall and router. Its full router features let your build a secondary wireless network within an existing network

### Ease of Use

The dual radio design also helps enhance usability. The HAW2R1 searches for signals and connects to your selected network within minutes! Simply power up the Smart Repeater Pro, use a web browser on your Wi-Fi enabled laptop or desktop to configure the repeater, and then find an location to place the HAW2R1.

### Applications

The powerful technology and incredibly user-friendly setup make the HAW2R1 Smart Repeater an ideal solution for any wireless application. Use the HAW2R1 to obtain and create a wireless network from a local hot spot, extend your homewireless network, or extend a wireless connection from building-to-building. The versatility of the Hi-Gain Smart Repeater Pro makes it the perfect solution for home owners, small business owners, recreation vehicle owners, and boat owners.

### FEATURES

- Repeats and rebroadcasts wireless signals to your home, office or business.
- Extends your existing wireless network at up to 300Mbps
- Increases your wireless performance of up to 400%
- Hi-Gain™ 13dBi Antenna, an amplified module, and a dedicated receiving Wi-Fi radio allows you to connect to your wireless source at a longer distance
- Dedicated secondary radio with two Omni-Directional antennas rebroadcast the received signals throughout your surroundings
- Removable Antennas allow quick and easy range upgrades for more demanding wireless requirements
- Easy Setup: Install and Configures in less than 3 Minutes

### 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)



- Connects and repeats any open wireless b/g/n signals
- Designed with Two WiFi Radios (Dual-Radio Design)- one for receiving and one for rebroadcasting signals
- 13dBi Directional Antenna and the power amplified module boost the over receiving range by up to 4X
- Two 3dBi Omni- Directional Antennas enhances the wireless radius and provides a larger wireless coverage
- Full router features allow you to secure and manage your extended network
- Removable antennas allows quick and easy range upgrades
- Installs in minutes! No software required: Simply scan for the wireless Internet network and select the connection

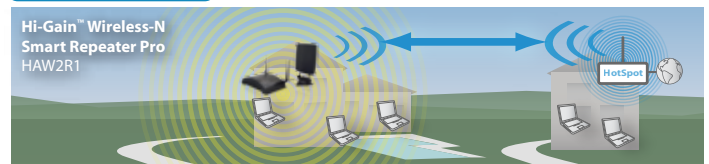
## NETWORK DIAGRAM



## SOLUTIONS

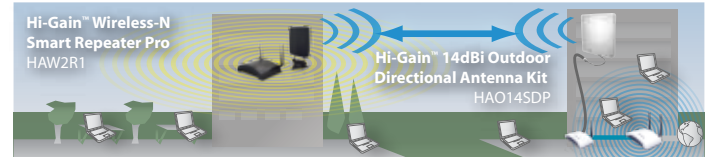
### FOR THE HOME

Extend a wireless signal to your backyard



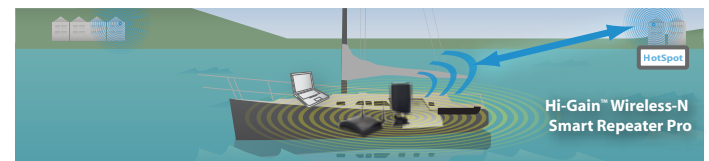
### FOR THE OFFICE

Connect to a wireless network from one office to another



### FOR MARINERS

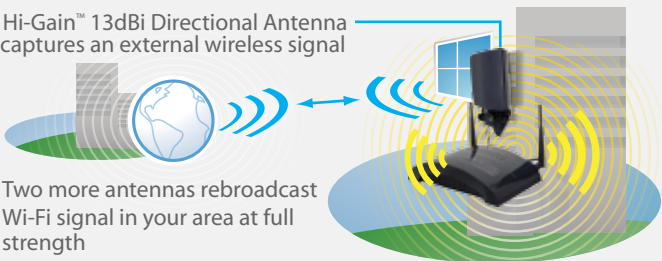
Connect to an on shore wireless connection or hotspot and redistribute it to your boat or yacht



## HOW IT WORKS

**1** Hi-Gain™ 13dBi Directional Antenna captures an external wireless signal

**2** Two more antennas rebroadcast Wi-Fi signal in your area at full strength



### FOR RV OWNERS

Connect to a wireless hotspot and rebroadcast that signal throughout your RV and its surroundings





HAWKING TECHNOLOGIES, INC.  
35 HAMMOND SUITE 150 • IRVINE, CA 92618

SALES: (888) 662-8828      FAX: (949) 206-9072  
E-MAIL: sales@hawkingtech.com      TECHNICAL SUPPORT: techsupport@hawkingtech.com

**SPECIFICATIONS:**

- Standards:** IEEE 802.11b/g/n  
**Frequency Band:** 2.4GHz - 2.484GHz  
**Connectors/Ports/Switches:**
- Antenna Jacks: Three RJ-SMA connectors
  - Ethernet Ports (LAN): Four 10/100M ports
  - Ethernet Port (WAN): One 10/100M port
  - Reset/WPS Button
  - WLAN On/Off Switch

- Power:** 12v 1A  
**Product Dimensions & Weight (in/lb)**
- Repeater  
1.2(H) x 7.36(W) x 3.94(D) in / 0.82 lb
  - Directional Antenna  
8(H) x 5.25(W) x 3.5(D) in / 0.68 lb

- Temperature**  
0°C - 45°C (32°F - 113°F)  
**Humidity**  
15% - 95%, Non-Condensing

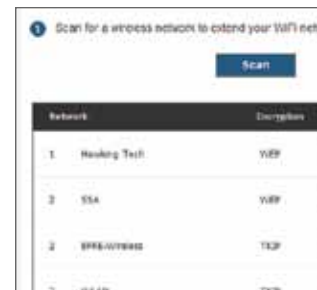
- Modem Specifications(WAN):**
- RJ-45 Ethernet 10/100M WAN Port
  - Wireless 802.11n 150Mbps
  - Antenna: One Removable 13dBi Directional Antenna
  - Supports WPA, WPA2, WEP Wi-Fi Security
  - Network Bridging Mode: Pass through Settings from a wireless Internet connection
  - Output Power : 11n: 18±1.5dBm, 11g: 21±1.5dBm, 11b: 23±1.5dBm

- Local Network Specifications(WLAN):**
- 4 Port 10/100M Auto Sensing Hub
  - Wireless 802.11n 300Mbps
  - Antenna: Two removable 3dBi Omni-Directional Antennas
  - Supports WPA, WPA2, WPS (Wi-Fi Protected Setup) WEP Wi-Fi Security
  - Output Power: 11n: 15±1dBm, 11g: 15±1dBm, 11b: 18±1dBm
  - 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

**SCAN, CONNECT, & GO!**

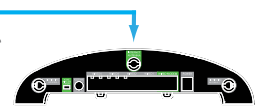
It's easy to install, it's easy to use! Everyone can do it.

- STEP 1: Power on the Smart Repeater Pro**  
Find the optimal location (an area where the Smart Repeater Pro 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 Pro**  
Using an Ethernet cable or Wi-Fi, connect to the Smart Repeater Pro 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.



**ANTENNA PORT FEATURES**

- Designated Wireless Internet Antenna
- Connects to wireless networks for Internet connectivity.
- Designated Local Wireless Antennas
- Rebroadcasts wireless signal locally within you home or office.



**SUPPORT UTILITY:**



The Smart Repeater Pro Support Utility is used to help troubleshoot a connection or easily access the basic configuration settings of the Smart Repeater Pro without having to log into the web interface. This Utility may often be used in conjunction with support calls from our support department or by the user when on site or for quick configuration purposes.