HAWKING
TECHNOLOGY ®

Hi-Gain™ WIRELESS N

Hi-Gain™ Wireless-N Mini Range Extender

MODEL: **HWREN15**

PACKAGE CONTENTS:

- One Hi-Gain™ Wireless-N Mini Range Extender
- One External 2 dBi Omni-Directional Antenna
- Quick Installation Guide (Mac & PC)
- One Setup CD (includes Software and Manual for Mac & PC)
- One Power Adapter
- One RJ-45 Ethernet Cable

Eliminate wireless deadspots with the new **HWREN15 Hi- Gain Wireless N Mini Range Extender**. Complete with a 2dBi dipole antenna, the HWREN15 is sure to give your network the boost it needs to sustain a stable connection that ensures uninter-rupted web surfing. To guarantee seamless integration with your wireless network, the HWREN15 is compatible with all Hawking Hi-Gain Wireless antennas. With its compact design, the HWREN15 will easily adapt to your existing wifi network and is even easier to install.

Although many homes and offices already have a wireless router to distribute signal, if your laptop is barely within the range of the router you will be connected, but your signal strength will be very low. Because your laptop only has minimal network connec-tion, there may be data lag while downloading multimedia content, loading files, web surfing, etc. Your wifi may even disconnect from time to time due to the weak signal.

With the HWREN15 connected to your laptop, the network signal is magnified by the range extender. Thus, strengthening the previously weak wireless signal and maximizing your networks data transfer rate. This provides a stronger and more solid wireless connection to improve overall uploading and downloading speed. As a result, the user experiences faster speeds and less data lag while streaming or downloading multimedia content (video, music, etc.).

Features
- Eliminates wireless dead spots in homes and offices
- Easy installation using a wired or wireless laptop or desktop, Mac or Windows
- High-speed data transfer rate – of up to 150Mbps
- High-efficiency antenna increases the overall wireless performance
- Work with 802.11b/g/n wireless networks
- External removable antenna for quick and easy range upgrade
- Small size allows for easy placement

System Requirements:
- Computer (Mac or PC) with 200MHz or faster processor with wired or wireless network interface card
- Windows 2000/XP/ Vista/7 or Mac OS X 10.4/10.5/10.6.
- Web browser (Microsoft Internet Explorer 4.0 or above, Netscape navigator 4.7 or above, Opera Web Browser, Mozilla Firefox Web Browser, or Safari Web Browser)
- An available AC power socket (100-240 v, 50/60Hz)
- Wireless 802.11b/g/n network*

*Optimum Performance with 802.11n networking environment

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SPECIFICATIONS:

- Standard: IEEE 802.11b/g/n
- Frequency Band
  - 2.4000~2.4835GHz
    (Industrial Scientific Medical Band)
- Data Rate
  - 11b: 1/2/5.5/11Mbps
  - 11g: 6/9/12/24/36/48/54Mbps
  - 11n (20MHz): MCS0-7 (up to 72Mbps)
  - 11n (40MHz): MCS0-7 (up to 150Mbps)
- Security
  - WEP 64/128, WPA, WPA2, IEEE 802.1
- Hardware
  - Antenna
    - Detachable 2dBi Omni-Directional Antenna
  - Power
    - 5 VDC, 1A switching power adapter
  - Output Power
    - 11b: 17dBm±1dBm
    - 11g: 15dBm±1dBm
    - 11n: 15dBm±1dBm
  - Weight
    - 2.1 oz
  - Dimension
    - 20(H) x 58(W) x 87(D) mm
  - Temperature
    - Operating : 32~104°F (0~40°C)
    - Storage : -4~140°F (-20~60°C)
  - Humidity
    - Operating : 10~90% (NonCondensing)
    - Storage : Max. 95% (NonCondensing)
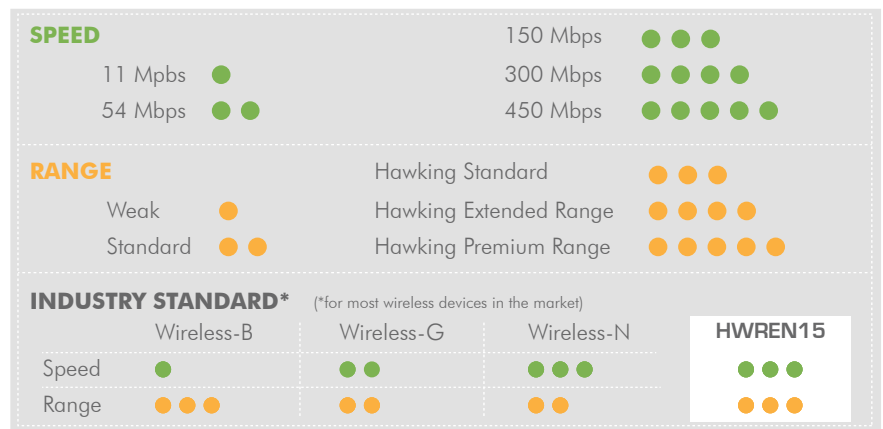- Certification: FCC, CE

SETUP, CONNECT, & GO!

It's easy to install, it's easy to use! Everyone can do it.
STEP 1: Place and power up the range extender
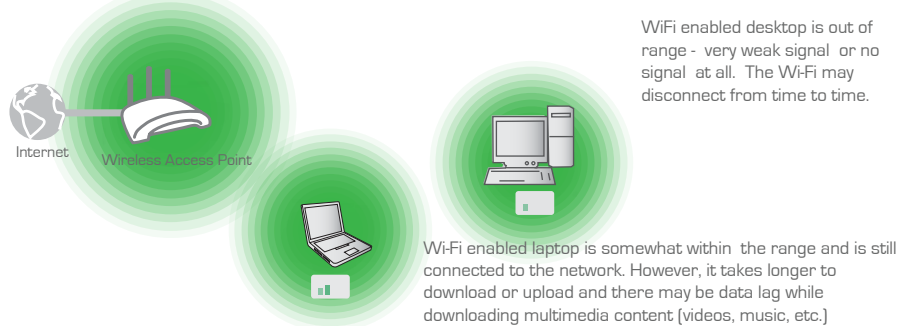**STEP 2:** Connect your computer to the range extender
STEP 3: Run the setup wizard

HAWKING'S WIRELESS PERFORMANCE GUIDE ▼

SPEED

11 Mpbs	●	150 Mbps ●●●
54 Mbps	●●	300 Mbps ●●●●
		450 Mbps ●●●●●

RANGE

Weak	●	Hawking Standard ●●●
Standard	●●	Hawking Extended Range ●●●●
		Hawking Premium Range ●●●●●

INDUSTRY STANDARD* (*for most wireless devices in the market)

	Wireless-B	Wireless-G	Wireless-N	**HWREN15**
Speed	●	●●	●●●	●●●
Range	●●●	●●	●●	●●●

How Does the HWREN15 Range Extender Work? ▼

Standard Wi-Fi Network: Users may experience poor Wi-Fi Performance due to a weak wireless signal

WiFi enabled desktop is out of range - very weak signal or no signal at all. The Wi-Fi may disconnect from time to time.

Internet — Wireless Access Point

Wi-Fi enabled laptop is somewhat within the range and is still connected to the network. However, it takes longer to download or upload and there may be data lag while downloading multimedia content (videos, music, etc.)

Wi-Fi Network with Hawking Range Extender: The HWREN15 enhances the overall wireless performance by extending your Wi-Fi range.

WiFi enabled desktop now supports uninterrupted web surfing through a stable connection.

Internet — Wireless Access Point — HWREN15 Range Extender

Wi-Fi enabled laptop is within range. This provides a stronger and more solid wireless connection to improve overall uploading and downloading speed. As a result, the user experiences faster speeds and less data lag while streaming or downloading multimedia content (video, music, etc.)