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WAVLINK WN570HA1

WAVLINK WN570HA1 Outdoor WiFi Range Extender Instruction Manual

Model: WN570HA1 | Brand: WAVLINK

1. Product Overview

The WAVLINK WN570HA1 is a versatile dual-band outdoor WiFi device designed to extend wireless network coverage. It functions as an Access Point (AP), Router, or Repeater, providing robust and stable internet connectivity in large outdoor areas. Its weatherproof design ensures reliable operation in various environmental conditions.





Figure 1: WAVLINK WN570HA1 Dual Band Outdoor WiFi Range Extender with antennas.

2. Key Features

- **Dual Band Connectivity:** Supports 2.4GHz and 5GHz bands for flexible network options and reduced interference.
- **High Transmission Power:** Features up to 1000 mW of power and enhanced receiver design for extended range.
- **Weatherproof Design:** IP65 rated environmental ABS case, resistant to extreme cold, heat, and moisture (-30°C to 70°C / -22°F to 158°F).
- **Lightning and ESD Protection:** Built-in 15KV ESD and 4KV lightning protection for enhanced durability in outdoor conditions.
- **Multiple Operating Modes:** Functions as a Wireless Access Point (AP), Router, or Repeater.
- **Power over Ethernet (PoE):** Integrated PoE support allows power and data transmission over a single RJ-45 cable, simplifying installation.
- **High Gain Antennas:** Two 7dBi omni-directional antennas provide 360° network coverage up to 500m.
- **AC600 Standard:** Supports 802.11ac Wi-Fi standard, offering speeds up to 433Mbps on 5GHz and 150Mbps on 2.4GHz.



Figure 2: Professional outdoor design features including lightning protection, weatherproof enclosure, and high-gain antennas.

3. Package Contents

Verify that all items listed below are present in your product package:

- WAVLINK WN570HA1 Outdoor WiFi Range Extender Unit
- 2 x Detachable Omni-Directional Antennas
- PoE Converter/Power Adapter
- RJ-45 Ethernet Cable
- Mounting Accessories (e.g., cable ties, screws, wall plugs)
- Quick Installation Guide (Instruction Manual)



Figure 3: Contents of the WAVLINK WN570HA1 product package.

4. Setup and Installation

4.1 General Setup Considerations

The WN570HA1 supports Power over Ethernet (PoE), allowing for flexible deployment in locations without immediate power outlets. A single RJ-45 cable can transmit both power and network data. For optimal performance, use a Cat 5e Ethernet cable, with a maximum length of 60 meters (approximately 197 feet) when connecting to your router via the passive PoE converter.

4.2 Choosing an Installation Location

For outdoor use, select a location that provides clear line-of-sight to the desired coverage area and minimizes obstacles between the extender and the devices it will serve. For repeater mode, place the unit between your main router and the weak signal area. Ensure the repeater receives at least three bars of Wi-Fi signal from your router for effective extension.

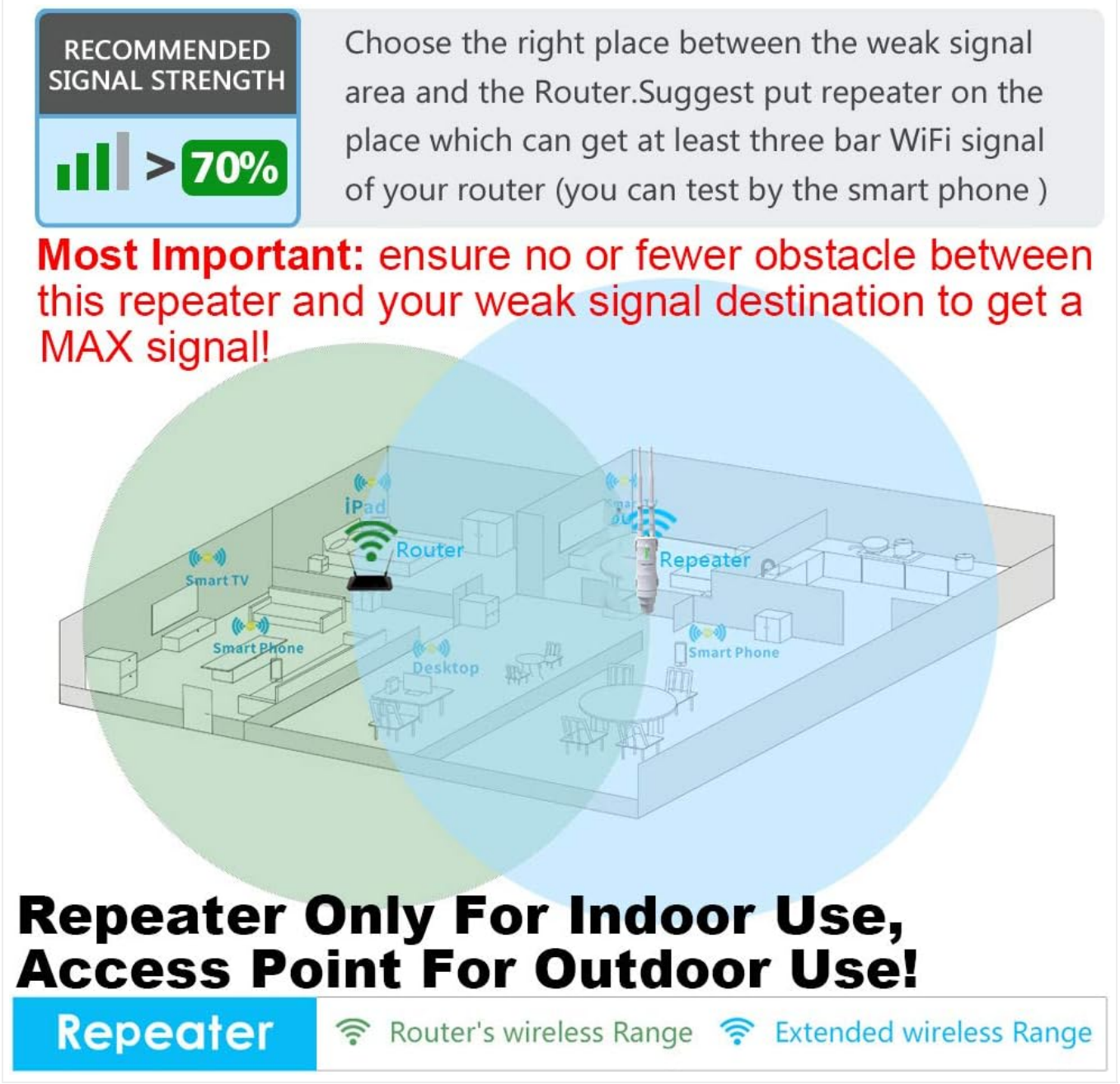


Figure 4: Recommended signal strength and placement for optimal Wi-Fi extension. Repeater mode is generally for indoor use, while Access Point mode is recommended for outdoor long-range coverage.

4.3 Mounting the Device

Use the provided mounting accessories to securely attach the WN570HA1 to a pole or wall. Ensure the device is positioned vertically with antennas pointing upwards for best signal propagation. The weatherproof design allows for direct exposure to outdoor elements.



Figure 5: Example of outdoor installation, demonstrating placement for extended Wi-Fi coverage.



Figure 6: The WN570HA1 providing extended Wi-Fi coverage in an outdoor setting for multiple users.

5. Operating Modes

The WAVLINK WN570HA1 supports three primary operating modes:

- **Access Point (AP) Mode:** Converts a wired network connection into a wireless one. This mode is highly recommended for outdoor use to achieve maximum wireless coverage (up to 500m). Connect the device to your router via an Ethernet cable and the passive PoE converter.
- **Repeater Mode:** Extends the range of an existing wireless network by receiving and re-transmitting the Wi-Fi signal. This mode is generally suitable for indoor use or extending coverage within a shorter range.
- **Router Mode:** Functions as a primary router, connecting directly to an ADSL modem or similar internet source to create a new wireless network.

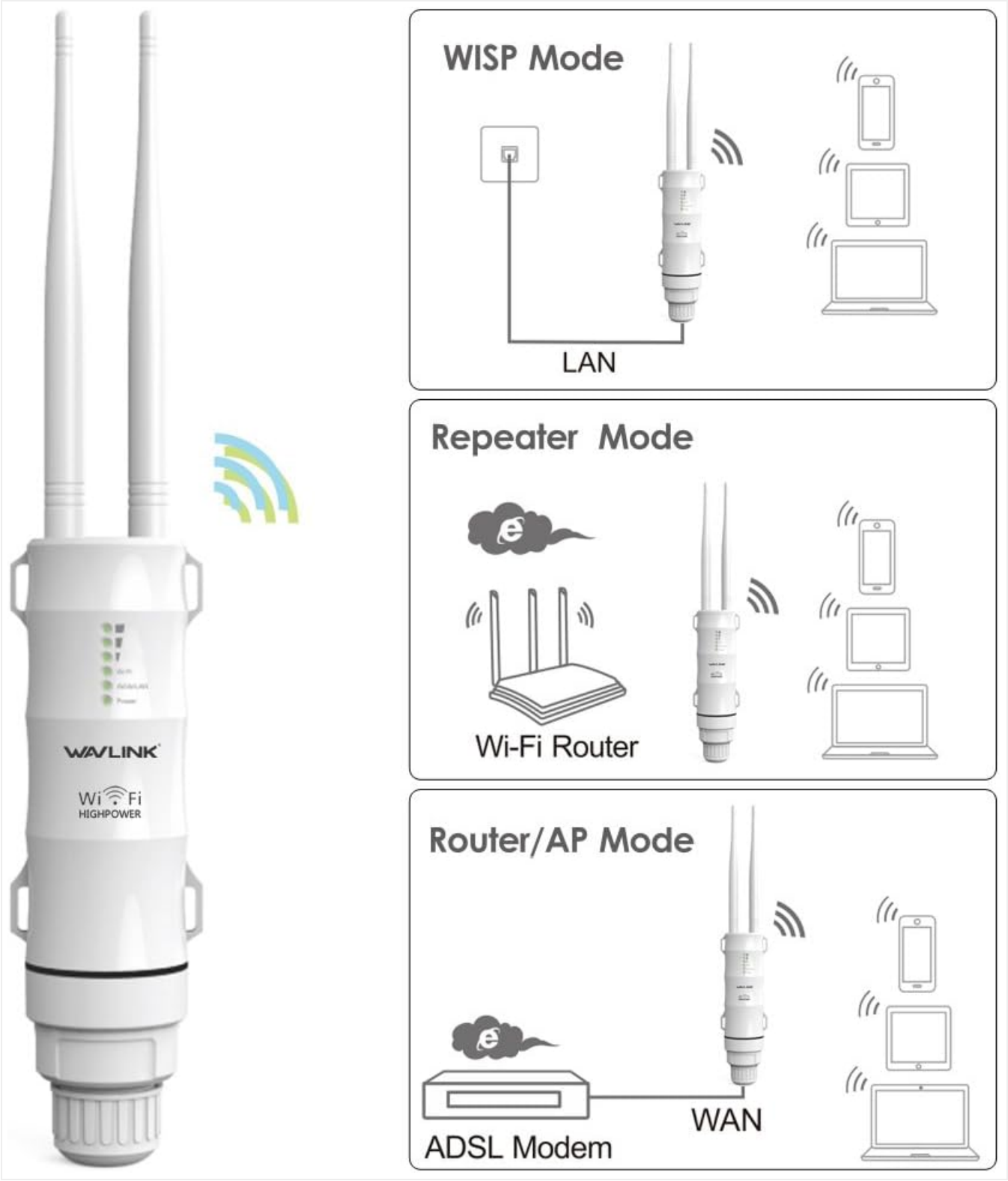


Figure 7: Diagram illustrating WISP, Repeater, and Router/AP operating modes.

6. Maintenance

To ensure optimal performance and prevent data accumulation issues, it is recommended to reset the power cycle of the device after approximately one week of continuous use. This helps clear data cookies and maintain system stability.

7. Troubleshooting

- **"Speed Lost" Issue:** If you experience a significant drop in speed, especially in outdoor scenarios, ensure the device is configured in **Access Point (AP) mode** rather than Repeater mode. AP mode, when connected via Ethernet to your main router, provides the most stable and long-range coverage.

- **Device Not Powering Up:** If the unit fails to power on, please contact WAVLINK customer support through Amazon mailboxes to inquire about the latest firmware or potential hardware issues.
- **Cannot Change Default IP:** The default IP address of the device is fixed and cannot be altered by the user. This is by design to maintain system integrity.

8. Specifications

Feature	Detail
Model Number	WN570HA1
Chipset	MT7688A + MT7610E
Flash Memory	64 Mb
DDR2 RAM	512 Mb
Wi-Fi Standard	802.11ac (backward compatible with a/b/g/n)
Data Transfer Rate	Up to 600Mbps (433Mbps on 5GHz, 150Mbps on 2.4GHz)
LAN Port	Max 100M (requires Cat 5/5e cable)
Transmit Power	Max 30dBm
Encryption Mode	WPA-PSK/WPA2-PSK
Supports WDS	Yes
Supports WPS	Yes
Operating Temperature	-30°C to 70°C (-22°F to 158°F)
Protection	IP65 Weatherproof, 15KV ESD, 4KV Lightning Protection

9. Customer Support

For technical assistance, firmware updates, or any product-related inquiries, please contact WAVLINK customer support. You can typically reach support through the Amazon messaging system or the official WAVLINK website.

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