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WAVLINK WN572HP3

WAVLINK AC1200 Outdoor WiFi Extender (Model WN572HP3) Instruction Manual

Comprehensive guide for setup, operation, and maintenance of your WAVLINK AC1200 Outdoor WiFi Extender.

1. Introduction

The WAVLINK AC1200 Outdoor WiFi Extender (Model WN572HP3) is designed to provide reliable and extended wireless network coverage in outdoor environments. This device supports dual-band Wi-Fi (2.4GHz and 5GHz) and can operate in various modes, including Access Point, Repeater, and Mesh Extender. Its robust, weatherproof design ensures stable performance in diverse weather conditions. This manual provides detailed instructions for installation, configuration, and troubleshooting to help you maximize your device's performance.

2. Package Contents

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

- 1 x WAVLINK AC1200 Dual Band Outdoor WiFi Extender (WN572HP3)
- 2 x 2.4G Omni Antennas
- 2 x 5G Omni Antennas
- 1 x RJ45 Networking Cable
- 1 x Power Adapter
- 1 x PoE Converter
- 1 x Main Body Holder
- 2 x Cable Ties
- 1 x Screw Fitting Kit
- 1 x Quick Start Guide



Figure 2.1: Contents of the WAVLINK AC1200 Outdoor WiFi Extender package, including the main unit, antennas, cables, power adapter, PoE converter, and mounting accessories.

3. Product Overview

The WAVLINK AC1200 Outdoor WiFi Extender is engineered for robust outdoor performance. Key features include:

- **Dual-Band AC1200 Speed:** Supports up to 867Mbps on 5GHz and 300Mbps on 2.4GHz, compliant with IEEE 802.11ac/a/b/g/n standards.

- **High Capacity:** Connects 64-96 devices simultaneously, ideal for high-bandwidth activities.
- **Multiple Operation Modes:** Functions as a Mesh Extender, Access Point (AP), or Repeater.
- **Power over Ethernet (PoE):** Integrated PoE support allows for flexible installation in locations without direct power outlets, using a single RJ-45 cable for both power and data.
- **Gigabit Ethernet Ports:** Features dual 10/100/1000Mbps WAN/LAN Ethernet ports for high-speed wired connections.
- **Weatherproof Design:** IP65-rated enclosure withstands harsh outdoor conditions, including extreme temperatures (-30°C to 70°C / -22°F to 158°F), humidity, 15KV ESD, and 4KV lightning protection.
- **High-Gain Antennas:** Equipped with four 7dBi detachable omni-directional antennas and 800mW High Power Amplifiers for extended range and strong signal penetration.

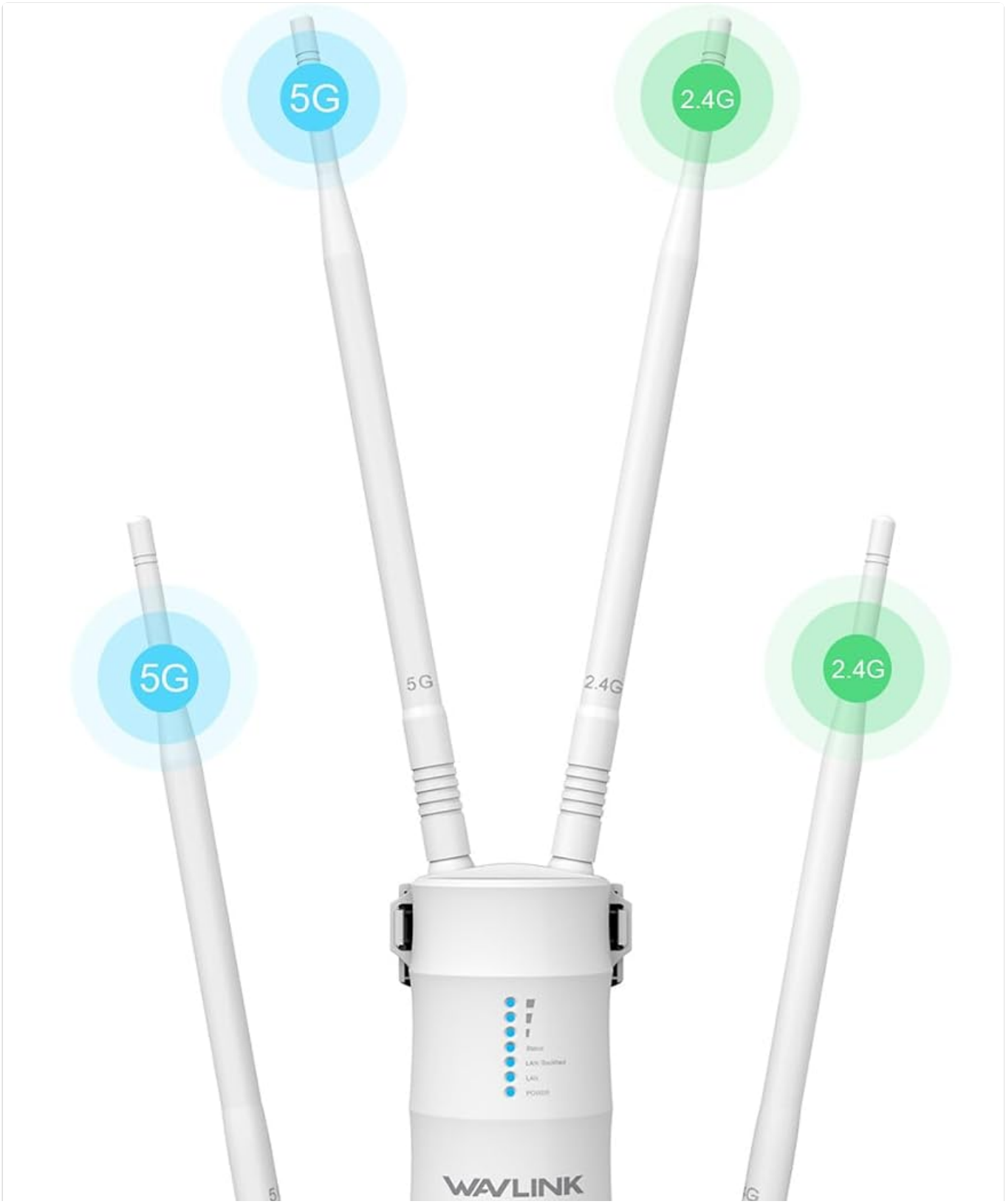




Figure 3.1: The WAVLINK AC1200 Outdoor WiFi Extender with four antennas, illustrating its dual-band capabilities for 2.4GHz and 5GHz networks.



Figure 3.2: Diagram illustrating the WAVLINK AC1200 Outdoor WiFi Extender's coverage capabilities, extending Wi-Fi up to 150 meters and supporting connections for up to 64 devices in an outdoor home environment.

4. Installation and Setup

4.1 Physical Installation

Before mounting, ensure you have selected an optimal location for maximum signal coverage. The device should be installed at a height of at least 2 meters above the roof or in a high open place for better reception.

Mounting Options

The WAVLINK AC1200 offers flexible mounting options:

- **Pole Mounting:** Use the provided cable ties to secure the main body holder to a pole.
- **Wall Mounting:** Use the screw fitting kit to attach the main body holder to a wall.



Figure 4.1: Diagram illustrating the dimensions of the WAVLINK AC1200 Outdoor WiFi Extender and various installation methods: locking the holder, pole mounting, and wall mounting.

Power over Ethernet (PoE) Connection

The device is powered via Power over Ethernet (PoE), simplifying installation by combining power and data into a single Ethernet cable. Connect the PoE converter as follows:

1. Connect one end of the RJ45 networking cable to the LAN port of the WAVLINK extender.
2. Connect the other end of this cable to the 'PoE' port on the PoE converter.
3. Connect another RJ45 cable from the 'LAN' port on the PoE converter to your router or network device.
4. Connect the power adapter to the PoE converter and then to a power outlet.

Note: The PoE part of the router is not waterproof and should be protected from moisture.



Figure 4.2: Diagram showing the Power over Ethernet (PoE) setup for the WAVLINK AC1200 Outdoor WiFi Extender, including the PoE adapter, power adapter, and Ethernet cables. The cable length limit is approximately 60 meters.

4.2 Initial Configuration

After physical installation and power connection, configure the device using a web browser. The specific steps will vary slightly depending on the chosen operation mode (AP, Repeater, or Mesh Extender).

1. Connect your computer to the extender via an Ethernet cable or wirelessly to its default Wi-Fi network (SSID usually found on the device label).
2. Open a web browser and enter the default IP address (e.g., 192.168.10.1) or domain name (e.g., wifi.wavlink.com) provided in the Quick Start Guide.
3. Log in using the default username and password (also found in the Quick Start Guide).
4. Follow the on-screen wizard to select your desired operation mode and configure network settings (SSID, password, etc.).

5. Operating Modes

The WAVLINK AC1200 supports three primary operating modes:

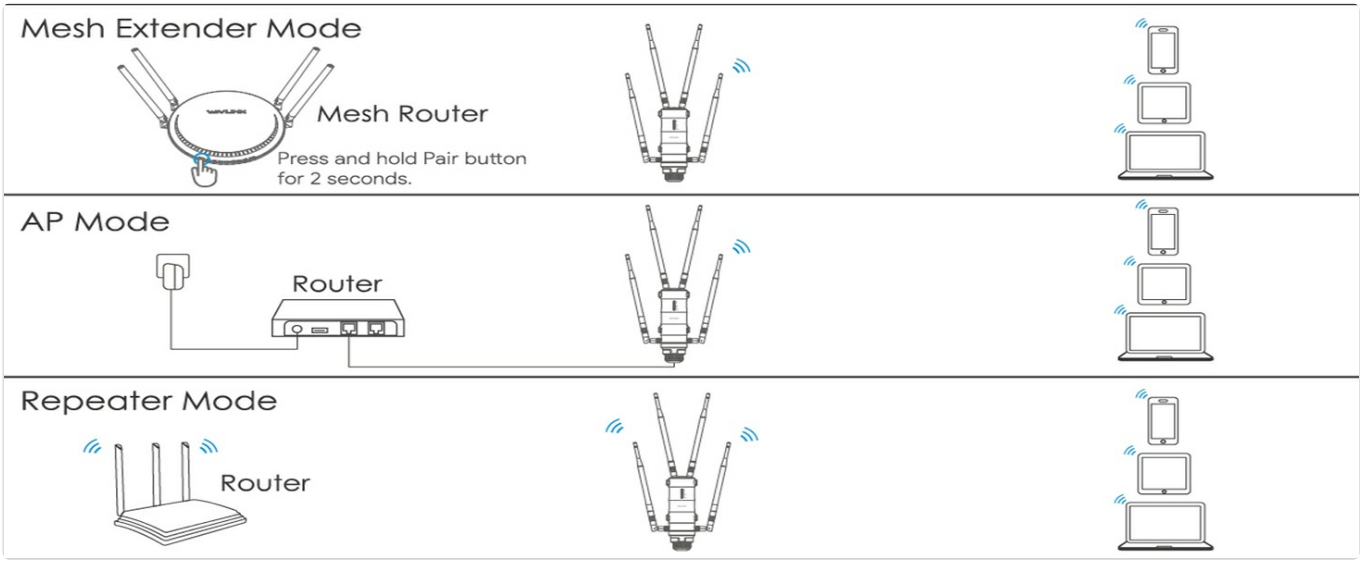


Figure 5.1: A detailed diagram illustrating the Mesh Extender, AP Mode, and Repeater Mode configurations for the WAVLINK AC1200 Outdoor WiFi Extender.

5.1 Access Point (AP) Mode

In AP mode, the device connects to a wired network and broadcasts a wireless signal, creating a new Wi-Fi network. This is suitable for converting a wired internet connection into a wireless one.

- Connect the extender's WAN/LAN port to your router or modem via an Ethernet cable.
- Configure a new SSID and password for the wireless network broadcast by the extender.

5.2 Repeater Mode

Repeater mode extends the coverage of an existing wireless network. The extender connects wirelessly to your main router and re-broadcasts the signal, effectively expanding your Wi-Fi range.

- Place the extender within the range of your existing Wi-Fi network.
- During configuration, select your existing Wi-Fi network and enter its password.
- You can choose to use the same SSID or a new one for the extended network.

5.3 Mesh Extender Mode

When paired with a compatible WAVLINK Mesh Router, the device can operate as a Mesh Extender, creating a seamless, unified Wi-Fi network with a single SSID. This provides stable roaming and eliminates dead zones.

- Ensure your main router supports Easy Mesh technology.
- Follow the instructions in the web interface to pair the extender with your Mesh Router. This often involves pressing a 'Pair' button on both devices.

6. Maintenance

To ensure optimal performance and longevity of your WAVLINK AC1200 Outdoor WiFi Extender, consider the following maintenance tips:

- **Firmware Updates:** Regularly check the WAVLINK official website for firmware updates. Updating the firmware

can improve performance, add new features, and fix bugs.

- **Physical Inspection:** Periodically inspect the device and its cables for any signs of damage, especially after severe weather conditions.
- **Cleaning:** Gently clean the exterior of the device with a soft, dry cloth. Avoid using liquid cleaners or solvents.
- **Secure Mounting:** Ensure the device remains securely mounted to prevent damage from wind or other environmental factors.



Figure 6.1: The WAVLINK AC1200 Outdoor WiFi Extender mounted outdoors, highlighting its IP65 weatherproof enclosure, -10°C to 50°C operating temperature range, 15KV ESD, and 6KV lightning protection, ensuring durability in various conditions.

7. Troubleshooting

If you encounter issues with your WAVLINK AC1200 Outdoor WiFi Extender, try the following troubleshooting steps:

- **No Power:** Ensure the PoE converter is properly connected to the power adapter and a working electrical outlet. Check all Ethernet cable connections.
- **No Internet Access:**

- In AP mode, verify that the Ethernet cable from your main router is connected to the extender's WAN/LAN port and that your main router has internet access.
- In Repeater mode, ensure the extender is within range of your main router and has successfully connected to its Wi-Fi network. Check the signal strength indicator on the device or in the web interface.

- **Weak Signal or Slow Speed:**
  - Relocate the extender to a position with fewer obstructions and closer to the area requiring coverage.
  - Ensure antennas are securely attached and oriented correctly.
  - Check for sources of interference (e.g., microwaves, cordless phones).
- **Cannot Access Web Management Page:**
  - Verify your computer is connected to the extender's network.
  - Ensure you are using the correct IP address or domain name.
  - Clear your browser's cache or try a different browser.
- **Reset to Factory Defaults:** If issues persist, you may need to reset the device to its factory settings. Locate the reset button (usually a small pinhole) on the device, press and hold it for approximately 10 seconds while the device is powered on, then release. The device will restart with default settings.

8. Specifications

Feature	Specification
Model Number	WN572HP3
Wireless Standard	IEEE 802.11ac/a/b/g/n
Data Transfer Rate	Up to 1200Mbps (5GHz: 867Mbps, 2.4GHz: 300Mbps)
Frequency Band	Dual-Band (2.4GHz & 5GHz)
Antennas	4 x 7dBi Detachable Omni-Directional Antennas
Ethernet Ports	2 x Gigabit 10/100/1000Mbps WAN/LAN
Power Supply	Power over Ethernet (PoE)
Weatherproof Rating	IP65
Operating Temperature	-30°C to 70°C (-22°F to 158°F)
Protection	15KV ESD, 4KV Lightning Protection
Product Dimensions	14.29 x 4.92 x 2.79 inches
Item Weight	1.58 pounds

9. Warranty and Support

WAVLINK products typically come with a manufacturer's warranty. Please refer to the warranty card included in your package or visit the official WAVLINK website for detailed warranty terms and conditions.
For technical support, product inquiries, or assistance with troubleshooting, please contact WAVLINK customer service:

- **Website:** www.wavlink.com
- **Email:** Contact@wavlink.com
- **Phone:** +1 8889730883 (UTC-5) Mon - Fri 9AM - 6PM

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