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WAVLINK WN570HP2

WAVLINK Outdoor Weatherproof WiFi Range Extender N300 WN570HP2 Instruction Manual

1. Introduction

This manual provides comprehensive instructions for the installation, configuration, and operation of your WAVLINK Outdoor Weatherproof WiFi Range Extender N300 (Model: WN570HP2). Please read this manual carefully before using the device to ensure proper setup and optimal performance.



Image 1.1: WAVLINK Outdoor Weatherproof WiFi Range Extender N300 WN570HP2 device and antenna unit.

2. Product Features

- **11dBi Directional Antenna:** Equipped with two built-in 11dBi directional MIMO antennas to strengthen and focus the WiFi signal for extended range.
- **1.5km Wireless Data Transmission:** Capable of up to 1.5km long-range wireless data transmission in barrier-free environments (when used in paired Point-to-Point or Point-to-Multi-Point configurations).
- **Outdoor Durability:** IP65 rated waterproof and heat-resistant housing ensures continuous operation in harsh outdoor conditions, withstanding temperatures from -22℉ to 158℉. Includes 15KV ESD and 4KV Lightning Protection.
- **PoE Installation:** 24V passive Power over Ethernet (PoE) design allows for combined power and network data

transmission over a single Ethernet cable, simplifying outdoor installation where electrical outlets are not easily accessible.

- **High Speed & Capacity:** Provides 2.4GHz 300Mbps wireless speed with a 100M Ethernet port, supporting up to 64 connected devices.
- **Multiple Operation Modes:** Supports Access Point (AP), Router, and Repeater modes to suit various network requirements.
- **Flexible Deployment:** Designed for easy installation on round poles or walls.



Image 2.1: Illustration of the weatherproof features including lightning protection, anti-freezing, and waterproofing.

3. Package Contents

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

- WAVLINK Outdoor Weatherproof WiFi Range Extender Unit
- Antenna

- Instruction Manual
- Power Adapter
- Screws and Mounting Hardware
- Ethernet Cable



Image 3.1: All components included in the product package.

4. Setup and Installation

4.1. Physical Installation

The device can be mounted on a round pole or a wall. Ensure the mounting location provides optimal line-of-sight for signal transmission and is within reach of a power source (if not using PoE exclusively).

Pole Mounting Instructions:

1. Remove the three screws at the rear of the flat antenna.
2. Fix the bracket base to the antenna base with screws.
3. Pass the screw bracket through the pole.
4. Fasten the fixed antenna to the screw bracket with bolts and nuts.
5. Pass the two cables through the holder of the configured router.
6. Fasten the router to the pole and connect the antennas.

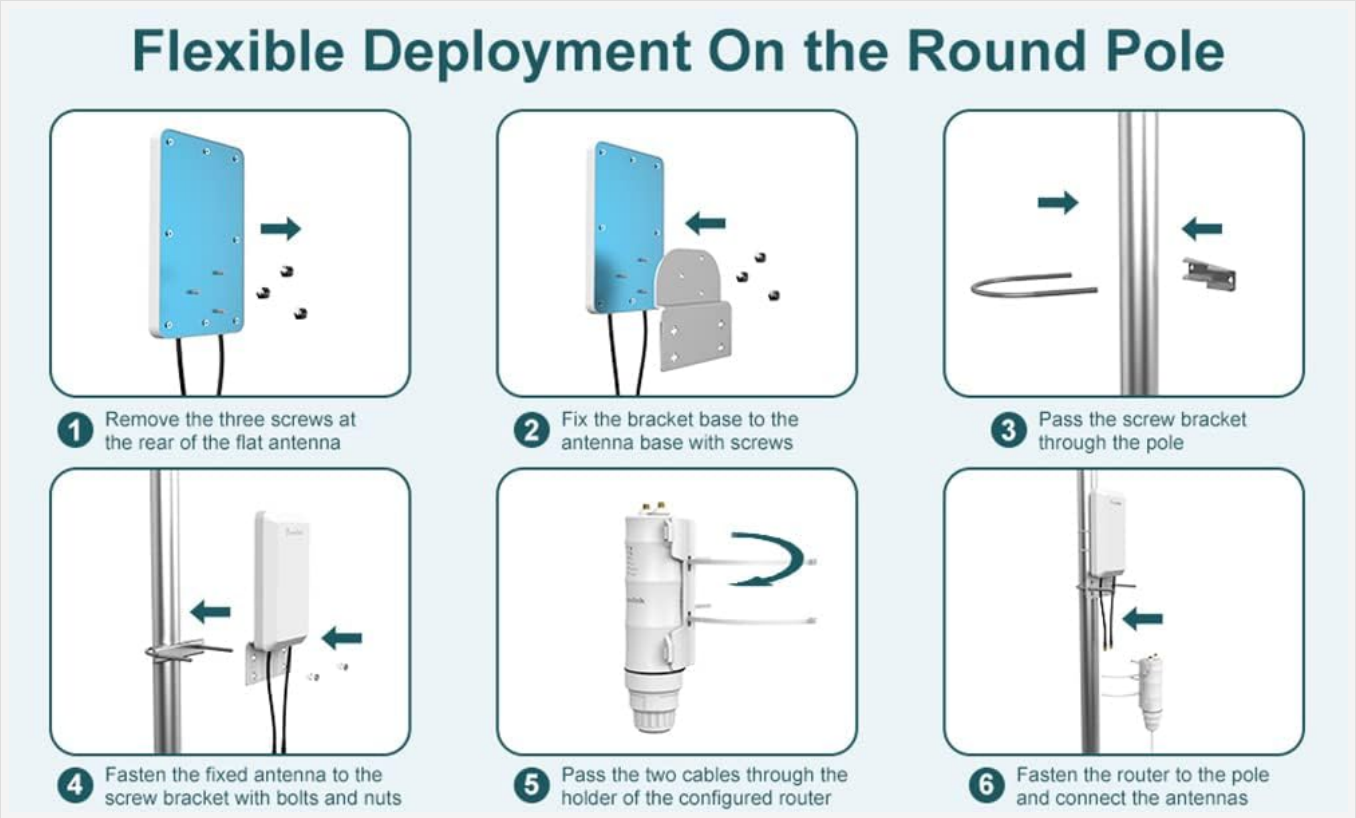

Image 4.1: Diagram illustrating the steps for pole mounting.

Wall Mounting Instructions:

1. Remove the three screws from the back of the antenna.
2. Place the bracket base and tighten the screws.
3. Punch four holes in the wall at the desired mounting location.
4. Insert wall plugs into the drilled holes.
5. Attach the antenna bracket to the wall plugs using screws.
6. Secure the configured router to the screws.

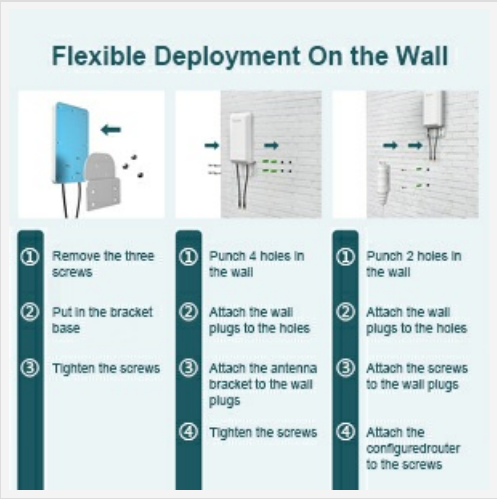

Image 4.2: Diagram illustrating the steps for wall mounting.

4.2. Power over Ethernet (PoE) Connection

The device supports 24V passive PoE, allowing power and data to be transmitted through a single Ethernet cable. This is ideal for outdoor installations where electrical outlets are not easily accessible.



Image 4.3: PoE connection diagram, showing the power adapter connecting to the PoE injector, which then connects to the extender via an Ethernet cable.

Connect the included PoE adapter to a power outlet. Connect one end of an Ethernet cable to the LAN port of the PoE adapter and the other end to the Ethernet port on the WAVLINK extender. This will provide both power and network connectivity to the device.

5. Operating Modes

The WAVLINK N300 extender supports three primary operating modes:

- **Access Point (AP) Mode:** Converts a wired network connection into a wireless network. Ideal for extending an existing wired network wirelessly.
- **Router Mode:** Functions as a primary router, connecting to an internet source (e.g., modem) and creating a new wireless network.
- **Repeater Mode:** Extends the coverage of an existing wireless network by receiving the signal and re-transmitting it.



Image 5.1: Visual representation of the different operating modes for the device.

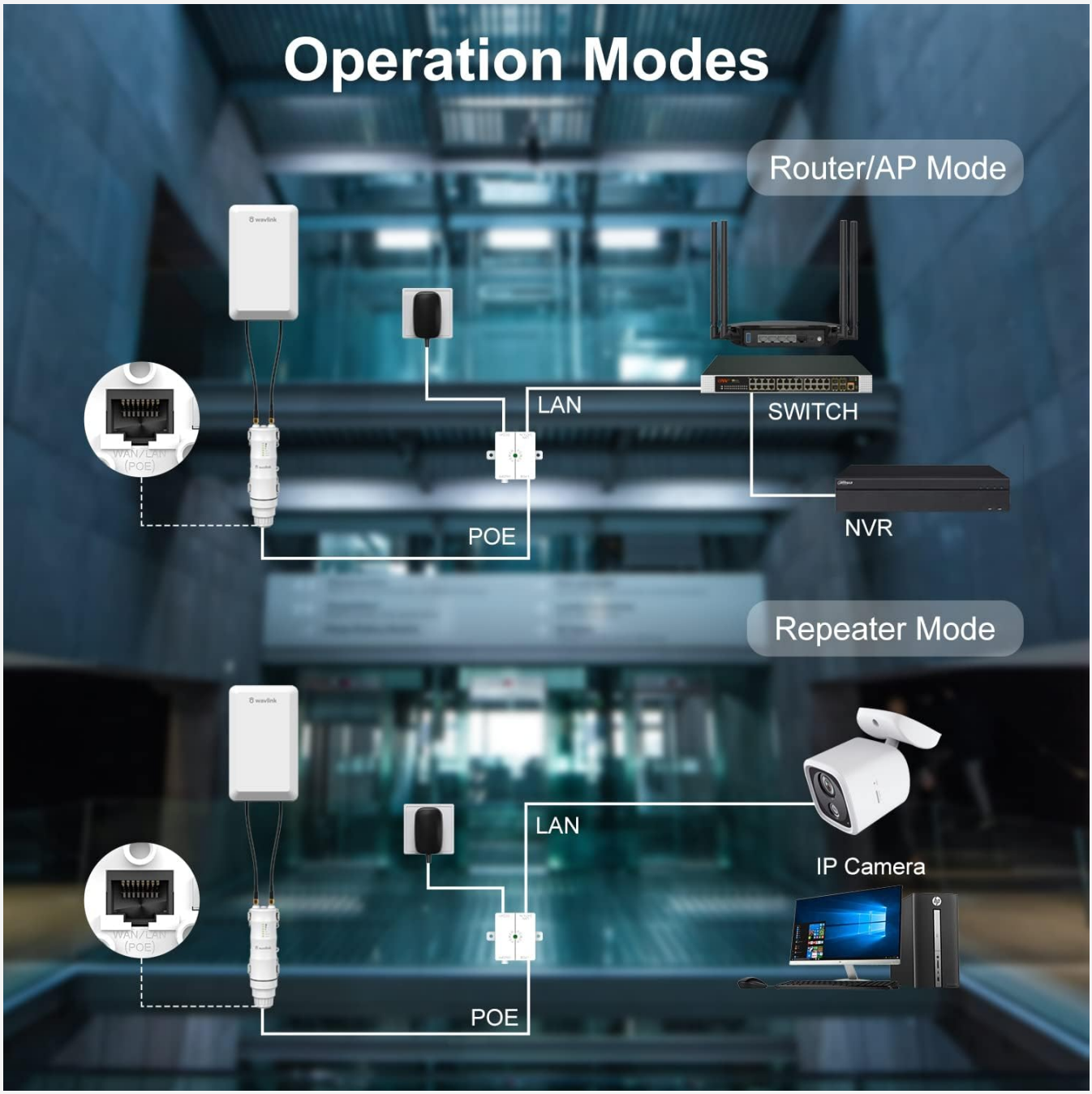

Image 5.2: Connection diagrams showing how the device integrates into a network in Router/AP mode and Repeater mode.

6. Configuration and Web Interface Access

To configure the device, you will need to access its web-based management interface. Follow these steps:

1. **Connect to the Device:**
    - **Wired Connection:** Connect your computer directly to the device's Ethernet port using an Ethernet cable.
    - **Wireless Connection:** Connect your computer or mobile device to the device's default Wi-Fi network (SSID usually found on the device label).
2. **Configure IP Address (if necessary):** Ensure your computer is set to obtain an IP address automatically (DHCP).
3. **Access Web Interface:** Open a web browser and enter one of the following addresses in the URL bar:
    - http://wifi.wavlink.com

- http://192.168.10.1 (Default IP address)

4. **Login:** Enter the default username and password (typically "admin" for both, refer to the device label or quick start guide for specifics).
5. **Follow Setup Wizard:** Once logged in, follow the on-screen setup wizard to configure your desired operating mode (AP, Router, or Repeater) and network settings.

7. Troubleshooting

7.1. Login Page Does Not Appear

If you cannot access the login page after entering wifi.wavlink.com or 192.168.10.1:

- **Wireless Connection:** Verify that your computer is connected to the device's SSID.
- **Wired Connection:** Ensure the Ethernet cable connection is stable.
- **IP Address:** Make sure your computer is configured to obtain an IP address automatically.
- **Router's DHCP Client List:** If the device is connected to a host Wi-Fi, check your main router's DHCP client list to find the device's current IP address.
- **Reset Device:** Press and hold the **Reset** button until all LEDs turn on momentarily, then try again.

7.2. Restoring Factory Default Settings

To restore the device to its factory default settings:

- While the device is powered on, press and hold the **Reset** button until all the LEDs turn on momentarily. Release the button, and the device will restart with default settings.

7.3. LED Does Not Show Solid After Configuration

If the LED indicators do not show a solid status after completing configuration:

- **Incorrect Wi-Fi Password:** You may have entered an incorrect Wi-Fi password for your host Wi-Fi during configuration. Log into the device's web-based interface to verify and correct the password.
- **Reconfigure:** Reset the device to factory defaults and go through the configuration process again.

7.4. MAC Filter/Access Control Enabled on Router

If your main router has a wireless MAC filter, wireless access control, or access control list (ACL) enabled:

- You may need to temporarily disable these functions on your main router before configuring the WAVLINK extender. After successful configuration, you can re-enable them and add the extender's MAC address to your router's allowed list if necessary.

8. Specifications

Feature	Description
Model Number	WN570HP2
Product Dimensions	7.8 x 3 x 2 inches

Item Weight	1.11 pounds
Wireless Standard	802.11n
Data Transfer Rate	300 Megabits Per Second
Frequency Band Class	Single-Band (2.4GHz)
Special Features	Long-range, outdoor, weatherproof design with high-gain directional antenna, PoE, Point-to-Point/Multi-Point connection support
Manufacturer	WAVLINK

9. Maintenance

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

- **Regular Cleaning:** Periodically clean the exterior of the device to remove dust, dirt, and debris. Use a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.
- **Firmware Updates:** Check the WAVLINK official website regularly for firmware updates. Keeping the firmware updated can improve performance, add new features, and enhance security.
- **Cable Inspection:** Periodically inspect all connected cables (Ethernet, power) for any signs of wear, damage, or corrosion, especially in outdoor environments. Replace damaged cables immediately.
- **Environmental Checks:** Ensure the device remains securely mounted and that its weatherproof seals are intact, especially after severe weather conditions.

10. Warranty and Support

The WAVLINK Outdoor Weatherproof WiFi Range Extender N300 (WN570HP2) comes with a one-year warranty and lifetime technical support.
For technical assistance, warranty claims, or any questions regarding your product, please contact WAVLINK support:

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

Please have your product model number (WN570HP2) and purchase information ready when contacting support.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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