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WAVLINK WAMZL-WN570HP2-US

WAVLINK High Power Outdoor Weatherproof WiFi Range Extender

Model: WAMZL-WN570HP2-US
Brand: WAVLINK

1. Product Overview

The WAVLINK WAMZL-WN570HP2-US is a high-power outdoor weatherproof Wi-Fi AP/Repeater designed to extend wireless network coverage over long distances. It is suitable for large areas such as factories, communities, or streets, providing reliable Wi-Fi service where traditional routers cannot reach. This device supports 2.4GHz transmission speeds up to 300Mbps and features robust construction for outdoor deployment.





Image 1.1: WAVLINK High Power Outdoor Weatherproof WiFi Range Extender main unit.

Key Features:

- **Extended Wi-Fi Coverage:** Designed to provide Wi-Fi service in large areas, extending the network range beyond typical router limits.
- **Enhanced Wireless Performance:** Equipped with 2x11dBi external directional antennas for improved signal transmission, rates, and stability. Features automatic channel selection to avoid conflicts.
- **Flexible Deployment Options:** Supports passive Power over Ethernet (PoE) for easy installation in various outdoor environments without needing nearby power outlets.
- **Robust Weatherproof Design:** Features a built-in 15kV ESD lightning arrester and a durable case to withstand harsh outdoor conditions.
- **Multiple Operation Modes:** Supports AP, Repeater, and WISP modes, including Client and Client+Repeater under AP mode, offering versatile network solutions.

2. Package Contents

Verify that all items listed below are present in your product package. If any items are missing or damaged, please contact WAVLINK customer support.



Image 2.1: All components included in the WAVLINK WAMZL-WN570HP2-US package.

- WAVLINK Outdoor Wi-Fi AP/Repeater Main Unit
- Passive PoE Injector/Power Adapter
- Ethernet Cable
- Mounting Brackets (U-bolt, flat plate)
- Screws, Nuts, and Wall Plugs
- Cable Ties
- Quick Installation Guide

3. Installation Guide

This section provides instructions for physically installing your WAVLINK outdoor Wi-Fi device. Ensure the device is powered off during installation.

3.1 Mounting Options

The device can be mounted on a pole or a wall. Choose a location that provides optimal signal coverage and is within reach of a power source via the PoE injector.

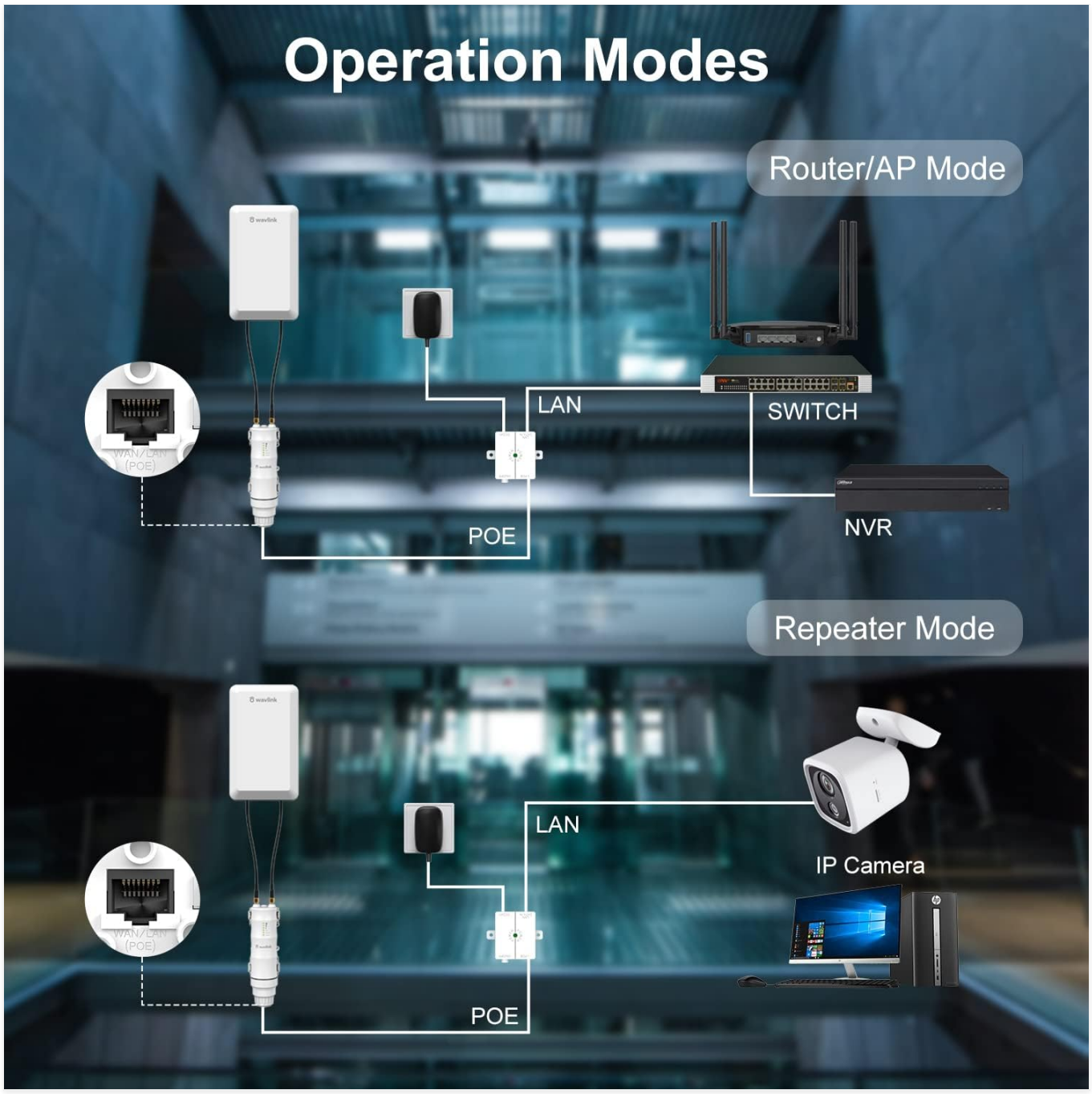


Image 3.1: Illustration of pole and wall mounting methods.

Pole Mounting Steps:

1. Remove the three screws at the rear of the flat antenna.
2. Fix the bracket base to the antenna base using screws.
3. Pass the screw bracket (U-bolt) 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.

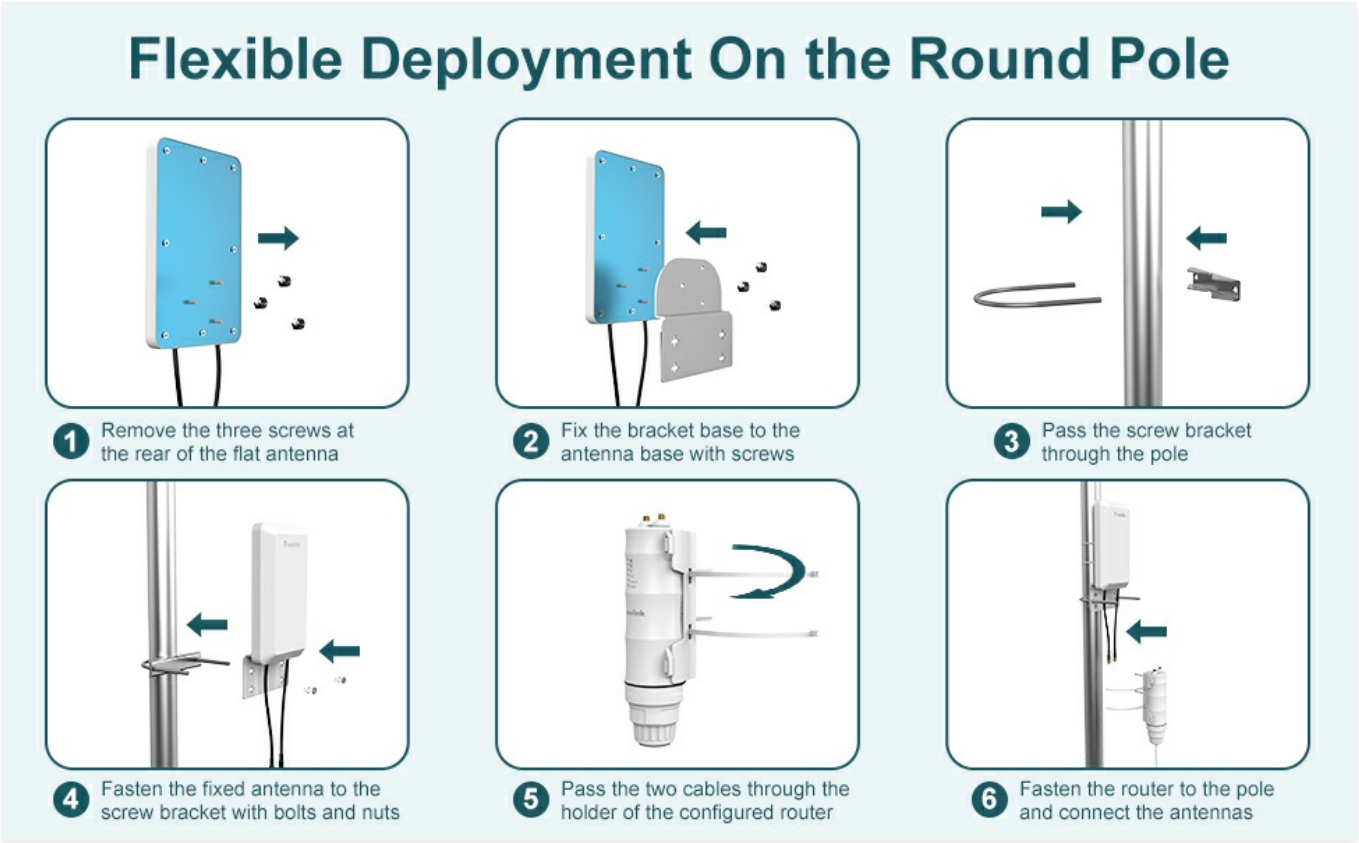


Image 3.2: Detailed steps for pole mounting.

Wall Mounting Steps:

For wall mounting, use appropriate screws and wall plugs (included) to secure the bracket plate to a solid surface. Then, attach the device to the bracket as shown in Image 3.1.

3.2 Power over Ethernet (PoE) Connection

The device is powered via a passive PoE injector. Connect an Ethernet cable from the device's WAN/LAN (PoE) port to the PoE port on the injector. Connect another Ethernet cable from the LAN port on the injector to your router or network switch. Plug the power adapter into the PoE injector and a power outlet.

4. Operating Modes

The WAVLINK outdoor Wi-Fi device supports several operating modes to suit different network requirements:

- **AP (Access Point) Mode:** Converts a wired network connection into a wireless network. Ideal for creating a new Wi-Fi hotspot.
- **Repeater Mode:** Extends the range of an existing Wi-Fi network by receiving the wireless signal and re-transmitting it.
- **WISP (Wireless Internet Service Provider) Mode:** Allows the device to connect to a wireless ISP network and share the internet connection wirelessly or via Ethernet.
- **Client Mode (under AP Mode):** Allows the device to act as a wireless adapter for a wired device, enabling it to connect to a wireless network.
- **Client+Repeater Mode (under AP Mode):** Combines Client mode functionality with Repeater mode, allowing a wired device to connect wirelessly while also extending the Wi-Fi signal.



Image 4.1: Connection diagrams for Router/AP Mode and Repeater Mode.



Image 4.2: Visual representation of different operational modes.

5. Initial Configuration

After physical installation and power connection, configure the device via its web-based management interface. Refer to the Quick Installation Guide for the default IP address and login credentials.

5.1 Accessing the Web Interface

1. Connect your computer directly to the LAN port of the PoE injector using an Ethernet cable.
2. Set your computer's IP address to be in the same subnet as the device's default IP (e.g., if the device's default IP is 192.168.10.1, set your computer's IP to 192.168.10.X, where X is not 1).
3. Open a web browser and enter the device's default IP address in the address bar.
4. Enter the default username and password when prompted.
5. Follow the on-screen wizard to select your desired operating mode and configure network settings (SSID,

password, etc.).

5.2 LED Indicators

The device features LED indicators to show its status:



Image 5.1: LED indicators and their labels.

- **WiFi Signal LED:** Indicates the strength of the Wi-Fi signal.
- **WiFi LED:** Indicates Wi-Fi activity.
- **WAN/LAN LED:** Indicates activity on the WAN/LAN port.
- **Power LED:** Indicates the power status of the device.

6. Maintenance and Care

The WAVLINK outdoor Wi-Fi device is designed for durability and minimal maintenance. Follow these guidelines to ensure optimal performance and longevity:

- **Weatherproof Design:** The robust casing is built to withstand various weather conditions. Ensure all cable connections are securely sealed to prevent water ingress.
- **Lightning Arrester:** The built-in 15kV ESD lightning arrester provides protection against electrical surges. However, during severe thunderstorms, it is advisable to disconnect the device from power if possible.
- **Cleaning:** Periodically clean the exterior of the device with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.
- **Firmware Updates:** Check the WAVLINK official website periodically for firmware updates. Keeping the firmware updated can improve performance, add new features, and fix bugs.

7. Troubleshooting

If you encounter issues with your WAVLINK outdoor Wi-Fi device, refer to the following common problems and solutions:

- **No Power/LEDs Off:**
  - Ensure the power adapter is securely connected to the PoE injector and a working power outlet.
  - Verify the Ethernet cable from the PoE injector's PoE port is correctly connected to the device's WAN/LAN (PoE) port.
- **Cannot Access Web Management Interface:**
  - Confirm your computer's IP address is in the same subnet as the device's default IP.
  - Try a different Ethernet cable or computer.

- Clear your browser's cache or try a different browser.
- Perform a factory reset (see below).

- **No Internet Connection:**
  - Check the connection between the PoE injector's LAN port and your main router/network.
  - Verify the operating mode is correctly configured (e.g., Repeater mode needs to connect to a valid upstream Wi-Fi network).
  - Ensure your main router has an active internet connection.

- **Poor Signal Strength/Limited Range:**
  - Adjust the device's physical orientation and height to optimize signal direction (refer to Image 3.3 for optimal installation height and direction).
  - Minimize obstructions between the device and client devices.
  - Ensure the device is not too far from the source Wi-Fi signal if in Repeater mode.

7.1 Factory Reset

If the device is unresponsive or you forget the login credentials, you can perform a factory reset. Locate the reset button (usually a small pinhole) on the device. With the device powered on, press and hold the reset button for approximately 10-15 seconds until the LEDs flash, then release. The device will reboot with factory default settings.

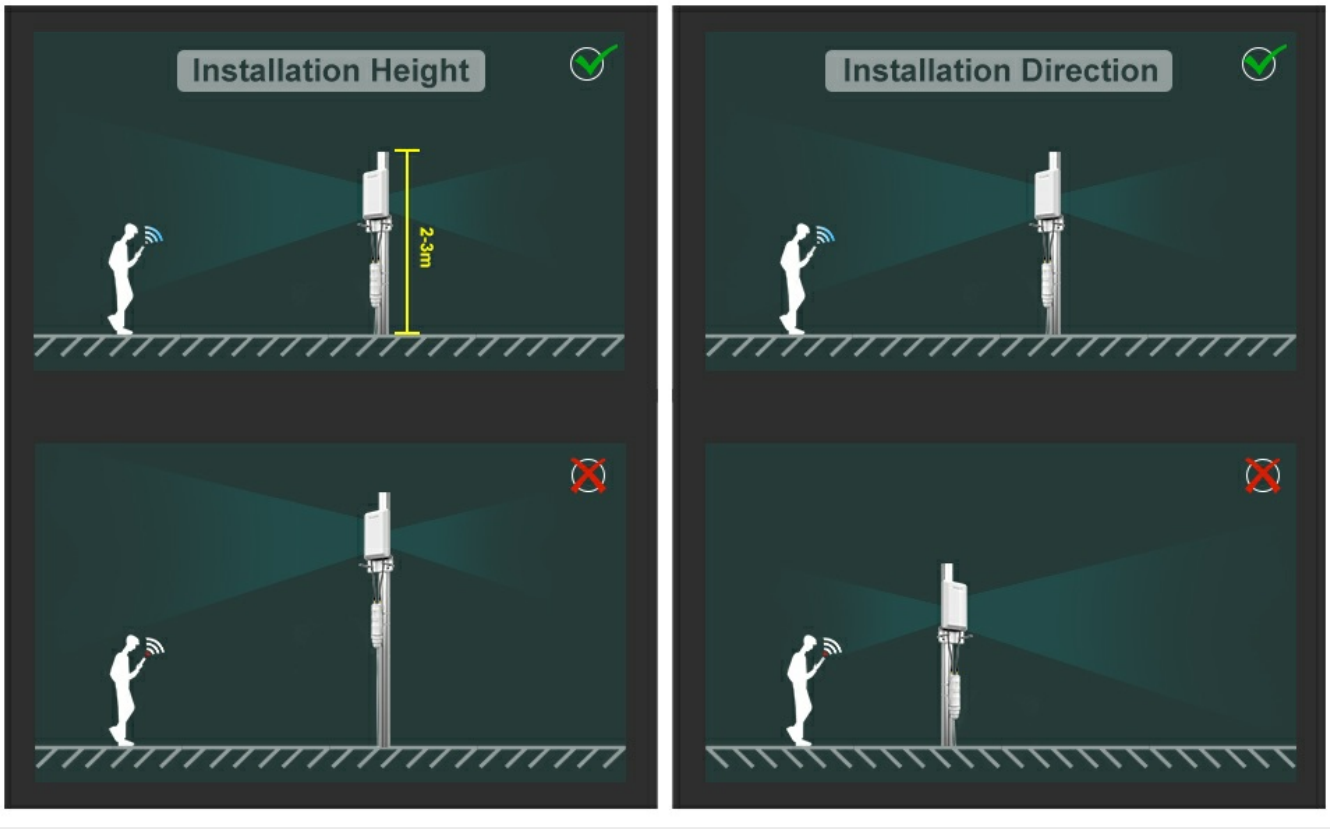


Image 7.1: Guidelines for optimal installation height and direction.

8. Technical Specifications

Specification	Value
Model Number	WAMZL-WN570HP2-US

Specification	Value
Brand	WAVLINK
Wireless Communication Standard	2.4 GHz Radio Frequency
Data Transfer Rate	300 Megabits Per Second
Special Features	Weatherproof, Built-in lightning arrester, PoE support, Multiple operation modes
Color	N300
Item Weight	2.05 pounds
Package Dimensions	11.93 x 5.55 x 3.98 inches
Manufacturer	WAVLINK
First Available Date	March 10, 2022

9. Customer Support and Warranty

For technical assistance, warranty information, or any product-related inquiries, please contact WAVLINK customer support using the details below:

- **Phone Support:** +1 8889730883 (UTC -5) Monday - Friday, 9 AM - 6 PM
- **Email Support:** Contact@wavlink.com

WAVLINK is a brand with over 14 years of history, serving millions of users worldwide. For the most up-to-date warranty terms and conditions, please refer to the official WAVLINK website or contact customer support directly.

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