**WAVLINK RC-WN573HX1-EU**

# WAVLINK AX1800 Outdoor WiFi 6 Extender User Manual

Model: RC-WN573HX1-EU

## 1. Introduction

This manual provides detailed instructions for the installation, configuration, and operation of your WAVLINK AX1800 Outdoor WiFi 6 Extender. This device is designed to provide extended and stable wireless network coverage in outdoor environments, leveraging WiFi 6 technology for enhanced performance.

## 2. Package Contents

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

- 1 x WiFi 6 Outdoor WiFi Extender
- 4 x Omni Antennas
- 4 x Cable Ties
- 1 x Ethernet Cable Connectors
- 1 x Quick Installation Guide
- 1 x Wrench
- 2 x Silicone Pads
- Several Screws




Image: Contents of the WAVLINK AX1800 Outdoor WiFi 6 Extender package, including the main unit, antennas, cables, and mounting hardware.

## 3. Product Features

- **Outdoor Durability:** IP67 waterproof enclosure, 15kV ESD protection, and 6kV lightning protection for extreme weather conditions.
- **WiFi 6 Technology:** AX1800 dual-band support (5GHz & 2.4GHz) for high-speed internet, minimizing interference.
- **Power over Ethernet (PoE):** Supports 802.3AF/AT PoE for flexible power and data transmission via a single Ethernet cable.
- **Extended Range:** Four 8dBi high-gain antennas and integrated signal boosters (PA/LNA) for long-distance coverage.
- **Multiple Operating Modes:** Supports AP, Router, Repeater, and Mesh modes to suit various network requirements.




Image: The WAVLINK AX1800 Outdoor WiFi Extender depicted in a snowy environment, illustrating its IP67 weather resistance against various elements.

## 4. Setup

### 4.1 Physical Installation

Follow these steps for physical mounting and antenna attachment:

1. Attach the four omnidirectional antennas to the designated ports on the top of the extender. Ensure they are securely tightened.
2. Apply the two silicone pads to the bracket and the mounting post/pole where the extender will be installed.
3. Thread the cable ties through the fixing points on the bracket.
4. Securely fix the product to the post or pole using the cable ties.

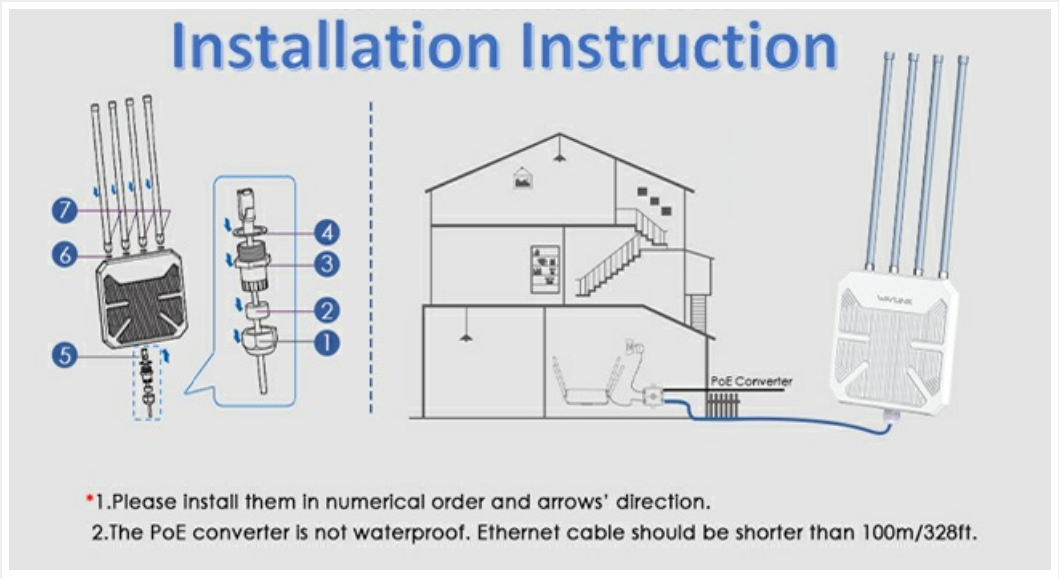



Image: A diagram illustrating the seven-step process for assembling the extender and connecting the waterproof Ethernet cable.

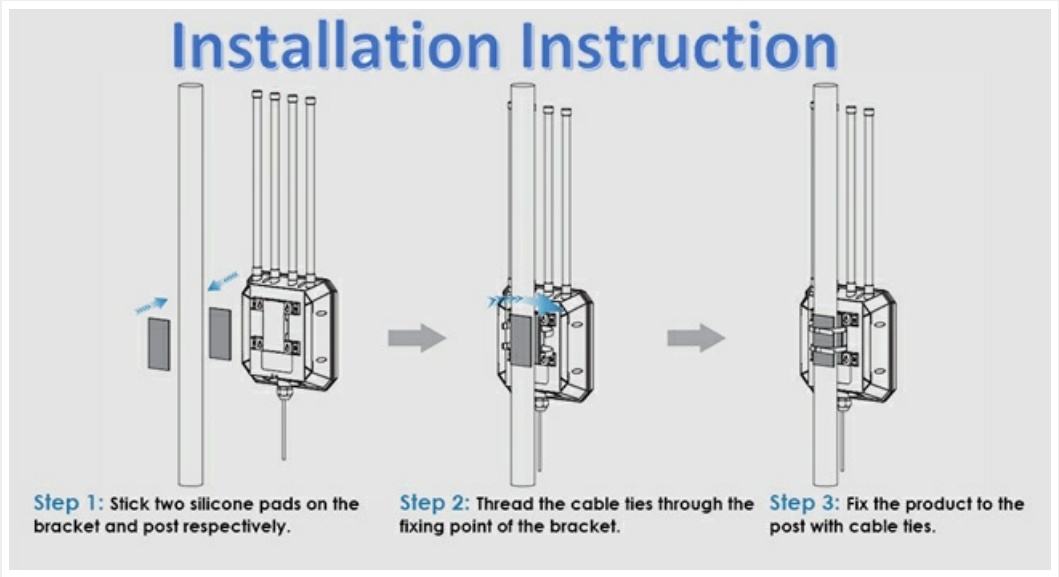



Image: A three-step diagram demonstrating how to attach the extender to a pole using silicone pads and cable ties.

## 4.2 Power over Ethernet (PoE) Connection

The device supports PoE for simplified installation. Connect the extender to a PoE injector or PoE-enabled switch using an Ethernet cable. The PoE converter is not waterproof and must be installed indoors. The Ethernet cable length should not exceed 100 meters (328 feet).

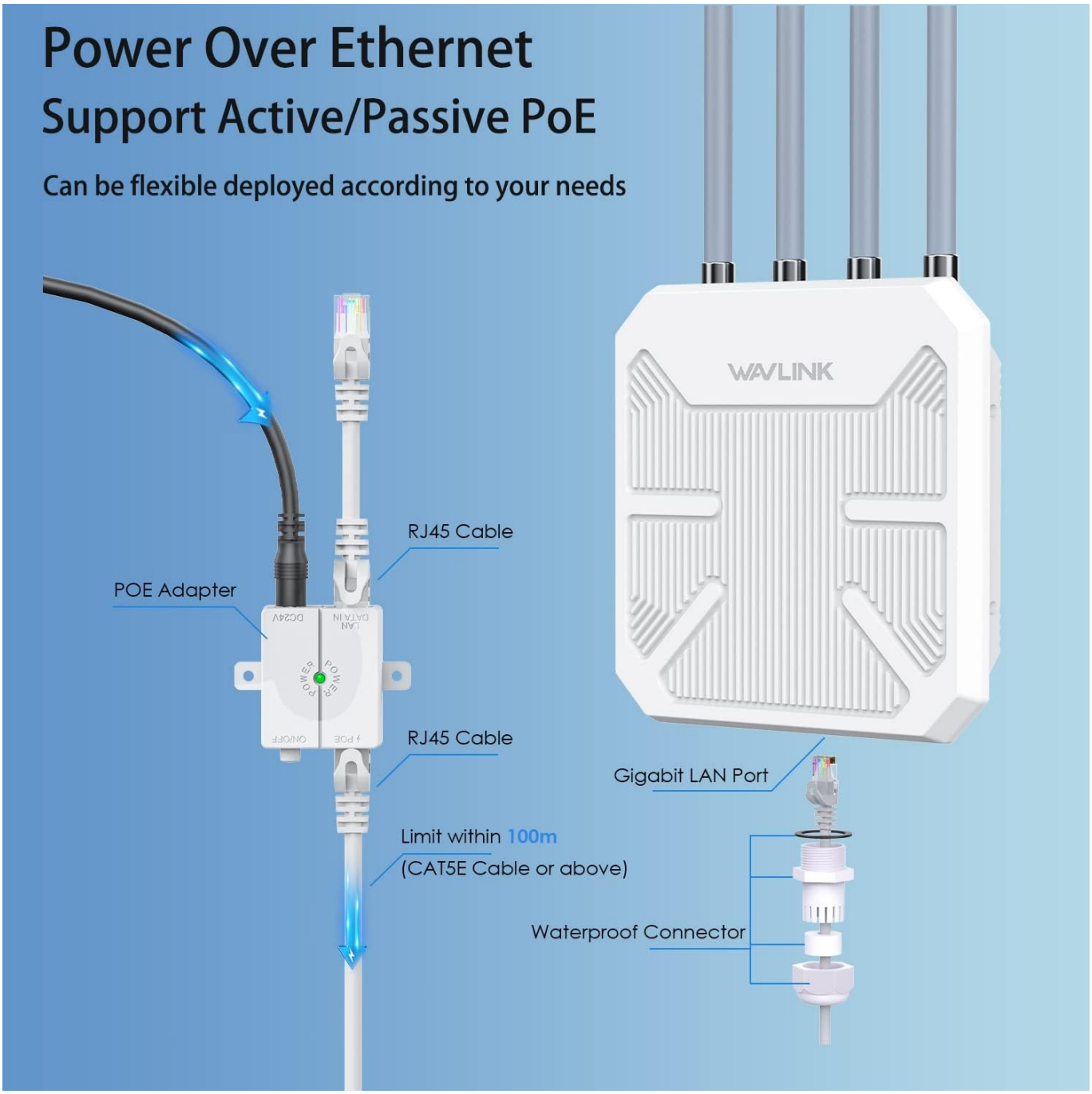



Image: A diagram illustrating the connection of the extender to a PoE adapter and then to a Gigabit LAN port, highlighting the waterproof connector.




Image: The extender mounted on an outdoor pole, with a text overlay reminding users that the PoE power supply must be installed indoors.

## 5. Operating Modes

The WAVLINK AX1800 Outdoor WiFi 6 Extender supports several operating modes to adapt to various network configurations:

- **AP Mode (Access Point):** Converts a wired network connection into a wireless network. Ideal for creating a new WiFi hotspot.
- **Router Mode:** Functions as a primary router, connecting to your modem and distributing internet to connected devices.
- **Repeater Mode:** Extends the coverage of an existing wireless network by repeating its signal.
- **AP+Repeater Mode:** Combines the functionality of an Access Point with a Repeater, extending coverage while also providing a new access point.
- **Mesh Mode:** Creates a seamless mesh network with compatible WAVLINK devices for unified coverage.*Note: Only supports forming a mesh system with specific WAVLINK devices.*

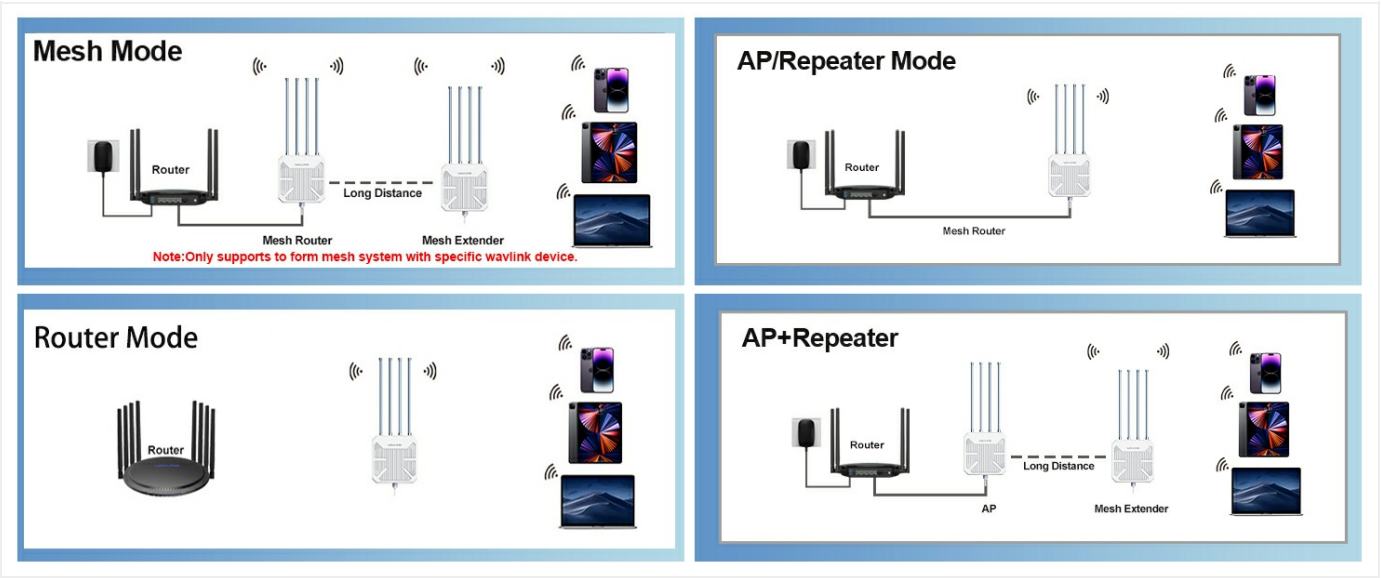



Image: Four diagrams depicting the different operating modes: Mesh Mode, AP/Router Mode, Repeater Mode, and AP+Repeater Mode, showing how the extender integrates into various network setups.

## 6. Maintenance

To ensure optimal performance and longevity of your WAVLINK AX1800 Outdoor WiFi 6 Extender, consider the following maintenance guidelines:

- **Regular Inspection:** Periodically check the physical condition of the device, antennas, and cables for any signs of wear or damage.
- **Cleaning:** Gently clean the exterior of the device with a soft, dry cloth. Avoid using liquid cleaners or solvents.
- **Firmware Updates:** Check the official WAVLINK website for available firmware updates to ensure the device has the latest features and security enhancements.
- **Environmental Protection:** While the device is IP67 weatherproof, ensuring proper installation and avoiding direct, prolonged exposure to extreme conditions beyond its rating can extend its lifespan.

## 7. Troubleshooting

If you encounter issues with your WAVLINK AX1800 Outdoor WiFi 6 Extender, refer to the following common troubleshooting steps:

- **No Power:** Ensure the PoE injector or switch is powered on and the Ethernet cable is securely connected to both the extender and the power source. Remember the PoE converter must be indoors.
- **No Internet Connection:** Verify that your main router or modem has an active internet connection. Check the Ethernet cable connection between the extender and the network source.
- **Weak Signal or Limited Range:** Ensure the antennas are securely attached and oriented correctly. Consider repositioning the extender to a more central location or higher elevation, free from obstructions.
- **Cannot Access Setup Page:** Confirm your device is connected to the extender's network. Try clearing your browser's cache or using a different browser. Ensure you are using the correct default IP address or domain for access.
- **Network Instability:** Check for potential interference from other wireless devices. Ensure the extender's firmware is up to date.
- **Resetting the Device:** If issues persist, a factory reset may resolve configuration problems. Refer to the Quick Installation Guide for specific reset instructions.

## 8. Specifications

| Feature | Detail |
|---|---|
| Model Number | RC-WN573HX1-EU |
| Wireless Communication Standard | 802.11ax (WiFi 6) |
| Data Transfer Rate | Up to 1.8 Gigabits Per Second (AX1800) |
| Frequency Band Class | Dual-Band (5GHz and 2.4GHz) |
| Antennas | 4 x 8dBi omnidirectional fiberglass tube antennas |
| Special Features | IP67 Weatherproof, MU-MIMO, Beamforming technologies, PoE Power Supply, 15kV ESD protection, 6kV lightning protection |
| Item Weight | 5.35 pounds |
| Package Dimensions | 17.68 x 13.15 x 3.62 inches |

## 9. Warranty and Support

WAVLINK products are designed for reliability and performance. For warranty information, please refer to the documentation included with your purchase or visit the official WAVLINK website.

### Customer Support:

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

## 10. Important Safety Information

- Do not open the device casing. Servicing should only be performed by qualified personnel.
- Ensure proper grounding for lightning protection.
- Use only the power adapter or PoE injector specified for this device.

- Keep the device away from heat sources and direct sunlight to prevent overheating.
- The PoE converter is not waterproof and must be installed in a dry, indoor environment.

## 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**

Anonymous

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**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.

Submit question