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WAVLINK WN573HX1

WAVLINK WiFi 6 Outdoor Mesh Router/AP/Repeater AX1800M User Manual

Model: WN573HX1

1. Product Overview

The WAVLINK WN573HX1 is a high-performance WiFi 6 outdoor mesh router, access point (AP), and repeater designed to provide robust and extended wireless coverage in challenging outdoor environments. It features dual-band AX1800M speeds, Power over Ethernet (PoE) for flexible installation, and a durable IP67-rated weatherproof enclosure.



Image 1.1: The WAVLINK WN573HX1 is built to withstand various outdoor conditions, including sun, rain, snow, wind, thunder, and hail, thanks to its robust IP67 weatherproof design.

2. Key Features

- **Extreme Outdoor Durability:** IP67 waterproof enclosure, 15kV ESD protection, and 6kV lightning protection ensure reliable operation in rain, snow, wind, and thunderstorms. High-gain fiberglass antennas resist strong winds and corrosion.
- **True WiFi 6 Speeds:** Compliant with IEEE 802.11ax/ac/a/b/g/n standards, offering dual-band speeds up to 574Mbps on 2.4GHz and 1201Mbps on 5GHz. This minimizes wireless interference and congestion for lightning-fast internet, ideal for HD video streaming and smooth gaming outdoors.
- **Flexible PoE Power:** Supports both 802.3AF/AT active PoE and passive PoE. A single Ethernet cable provides both data transfer and power, enabling installation in outdoor areas without direct power outlets. (Note: The PoE converter is not waterproof. Use CAT5E or higher cables, not exceeding 100m/328ft.)
- **Seamless WiFi Roaming:** Equipped with 4x8dBi omnidirectional antennas and two built-in high-power amplifiers for extensive WiFi coverage and penetration. Mesh technology allows one-click connection of multiple devices, significantly expanding coverage and eliminating network dead zones.
- **Multiple Operating Modes:** Supports Mesh, AP, Router, Repeater, and AP+Repeater modes to adapt to various network requirements and outdoor scenarios.



Image 2.1: The device features an IP67-rated waterproof enclosure, ensuring protection against dust and water ingress for reliable outdoor performance.



Image 2.2: Highlighting the AX1800M dual-band capabilities, with 574Mbps on the 2.4GHz band and 1201Mbps on the 5GHz band for fast and efficient data transfer.

3. Package Contents

Please verify that all items are present in your package:

- WAVLINK WN573HX1 Outdoor Mesh Router/AP/Repeater
- 4 x 8dBi High-Gain Omnidirectional Antennas
- PoE Converter (Non-waterproof)
- Ethernet Cable
- Power Adapter
- Mounting Kit (Screws, Wall Plugs, Cable Ties, Wrench)
- Quick Installation Guide



Image 3.1: A visual representation of all components included in the WAVLINK WN573HX1 product package.

4. Setup Instructions

This section outlines the general steps for setting up your WAVLINK WN573HX1 device. Specific configurations may vary based on your chosen operating mode.

4.1 Physical Installation

1. **Attach Antennas:** Carefully screw the four high-gain antennas onto the designated ports on the device.
2. **Mount the Device:** Use the provided mounting kit to securely install the device in your desired outdoor location. Ensure it is positioned for optimal signal coverage and away from obstructions.
3. **Connect PoE:** Connect one end of an Ethernet cable (CAT5E or higher, max 100m/328ft) to the LAN port on the WN573HX1. Connect the other end to the "PoE" port on the PoE converter.
4. **Connect to Network/Power:** Connect another Ethernet cable from the "LAN DATA IN" port on the PoE converter to your existing router/modem or network switch. Plug the power adapter into the PoE converter and then into a power outlet.

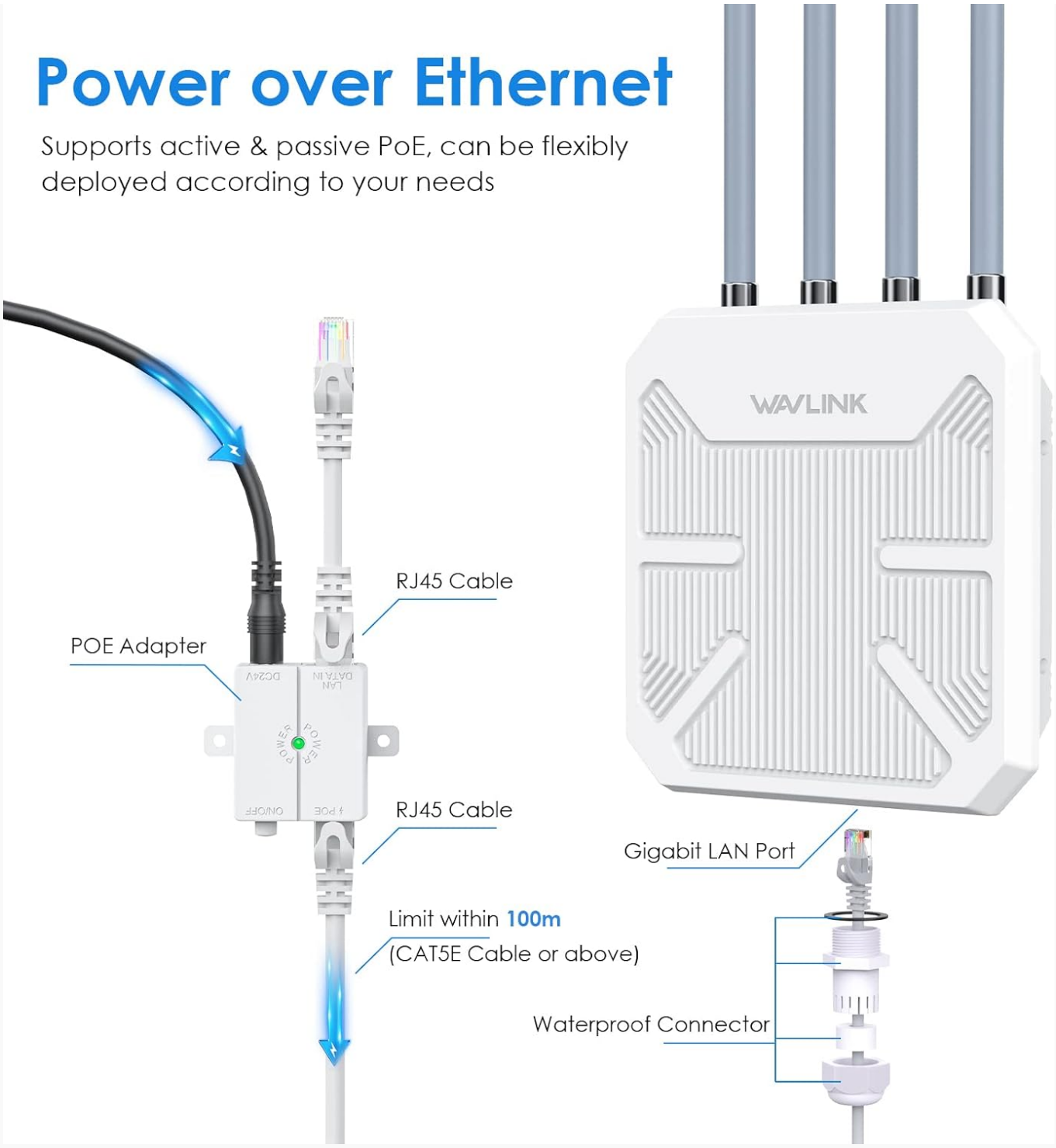

Image 4.1: Diagram illustrating the Power over Ethernet (PoE) connection, showing how a single RJ45 cable provides both data and power to the device via the PoE adapter.

4.2 Initial Configuration (AP Mode Example)

This example guides you through setting up the device in AP mode. Other modes will follow a similar initial access process.

1. **Reset Device:** If this is a new device or you are experiencing issues, press and hold the reset button on the device for approximately 6 seconds to restore factory defaults.
2. **Connect to Device WiFi:** On your smartphone or computer, connect to the default Wi-Fi network named "wavlink-XXX" (where XXX are the last three digits of the device's MAC address).
3. **Access Management Interface:** Open a web browser and navigate tohttp://waplogin.link. If this doesn't work, try the default IP address (usually 192.168.10.1).

4. **Login:** Enter the default login password, which is typically "admin". You will be prompted to set a new password for security.
5. **Select Operating Mode:** Follow the on-screen wizard to select your desired operating mode (e.g., AP Mode).
6. **Configure WiFi Settings:** Set your preferred Wi-Fi name (SSID) and password for both 2.4GHz and 5GHz bands. Click "Save".
7. **Verify Connection:** After the device reboots, reconnect your devices to the new Wi-Fi network you just created and verify internet connectivity.

5. Operating Modes

The WAVLINK WN573HX1 supports multiple operating modes to suit various networking needs:

- **Mesh Mode:** Creates a seamless, unified WiFi network with a single SSID and password across multiple mesh devices, eliminating dead zones and providing stable roaming.
- **AP (Access Point) Mode:** Converts a wired network connection into a wireless one, ideal for extending an existing wired network's wireless coverage.
- **Router Mode:** Functions as a primary router, connecting directly to your modem to create a new wireless network.
- **Repeater Mode:** Extends the range of an existing wireless network by receiving the signal and re-transmitting it.
- **AP+Repeater Mode:** A combination mode offering both access point functionality and signal repeating.

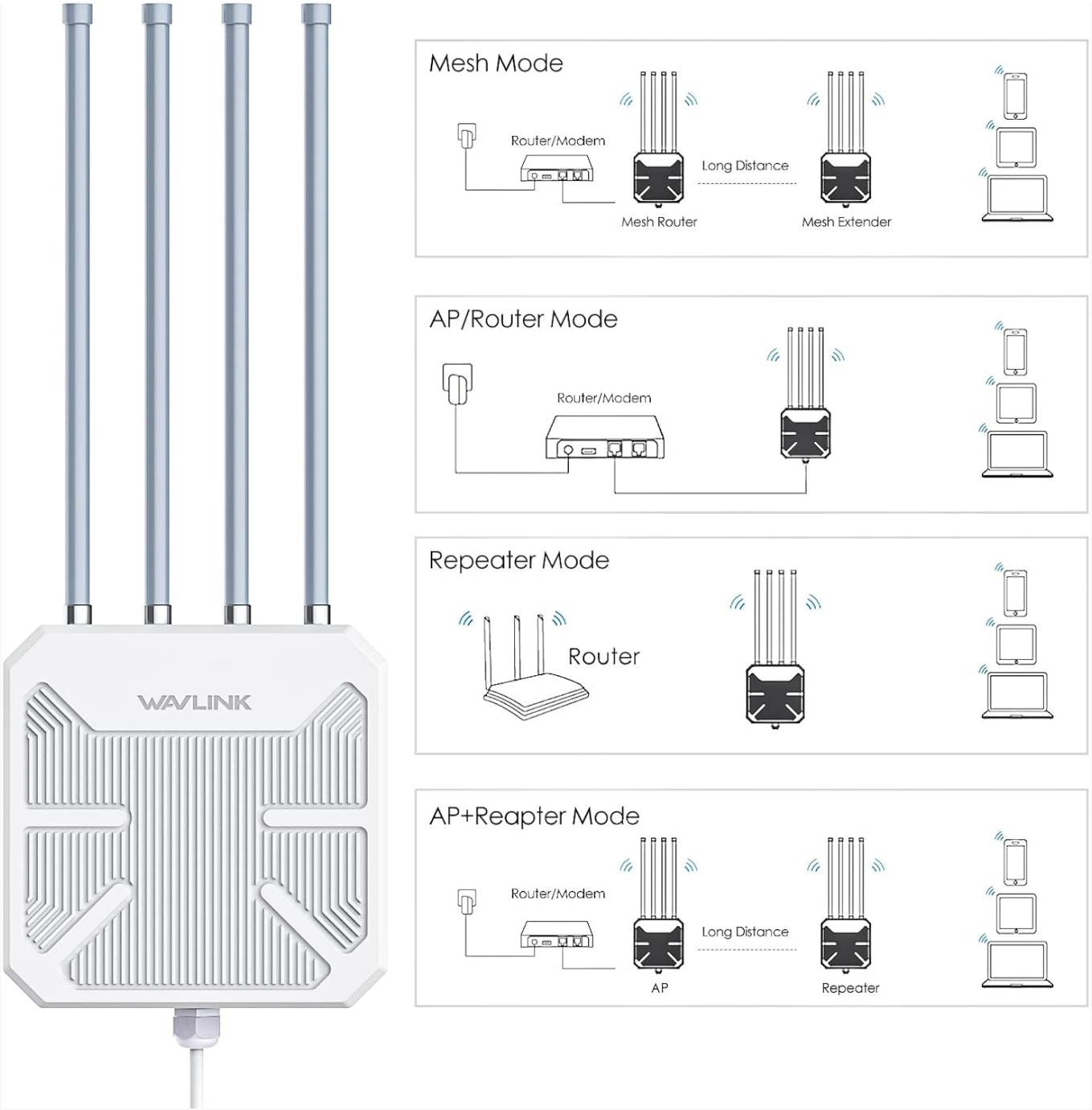

Image 5.1: Visual representation of the different operating modes: Mesh, AP/Router, Repeater, and AP+Repeater, illustrating their respective network configurations.

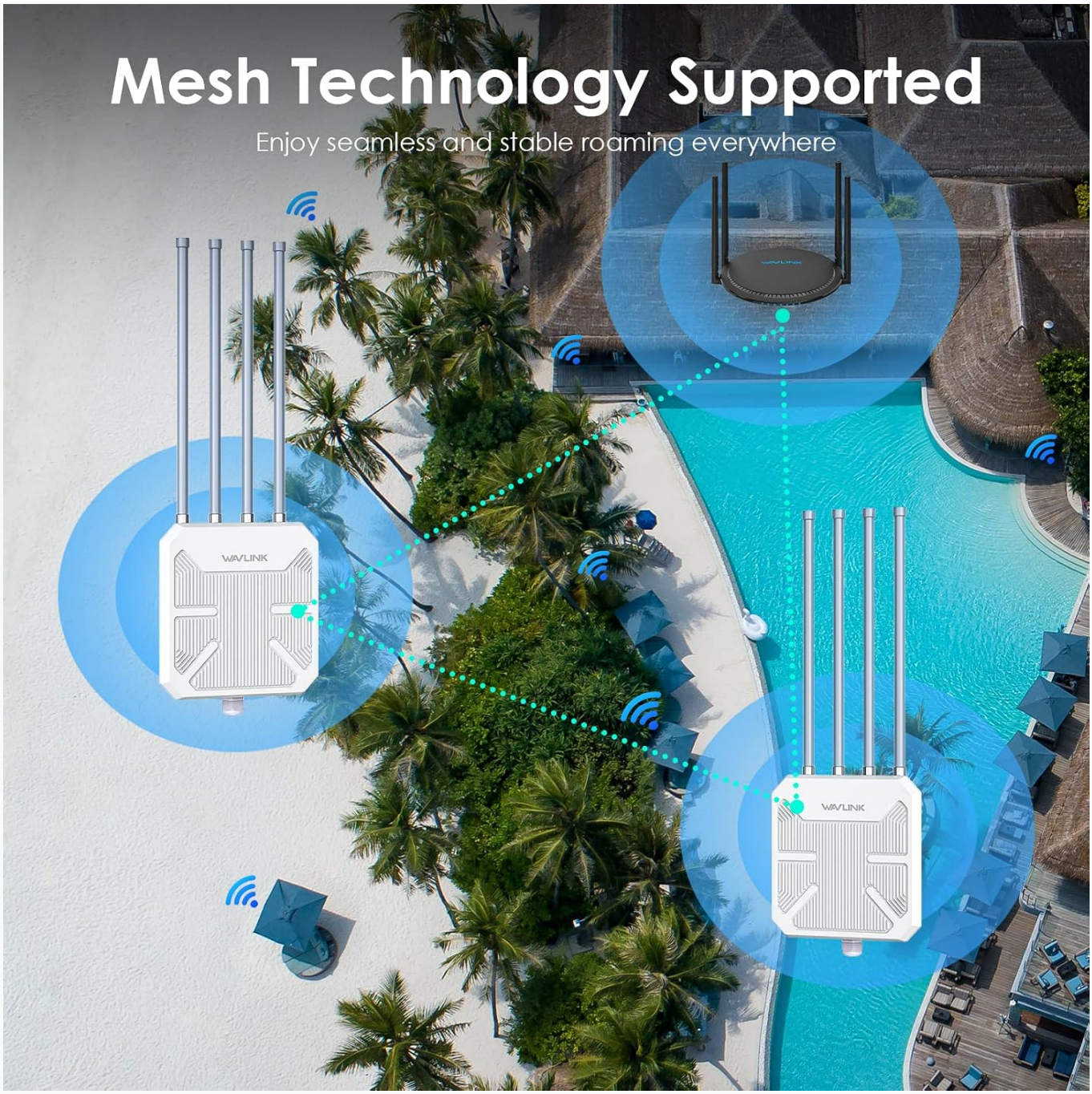

Image 5.2: Diagram showing how Mesh technology extends WiFi coverage seamlessly across a large area, such as a resort or large property, ensuring stable connectivity.

6. Specifications

Feature	Description
Brand	WAVLINK
Model	WN573HX1
Color	White
Wireless Standard	IEEE 802.11ax/ac/a/b/g/n
Wireless Speed	AX1800M (2.4GHz: 574Mbps, 5GHz: 1201Mbps)
Antennas	4 x 8dBi Omnidirectional High-Gain Antennas

Ports	Gigabit LAN Port
PoE Support	802.3AF/AT Active PoE & Passive PoE
Weather Resistance	IP67 Waterproof Enclosure, 15kV ESD, 6kV Lightning Protection
Product Weight	2 kg

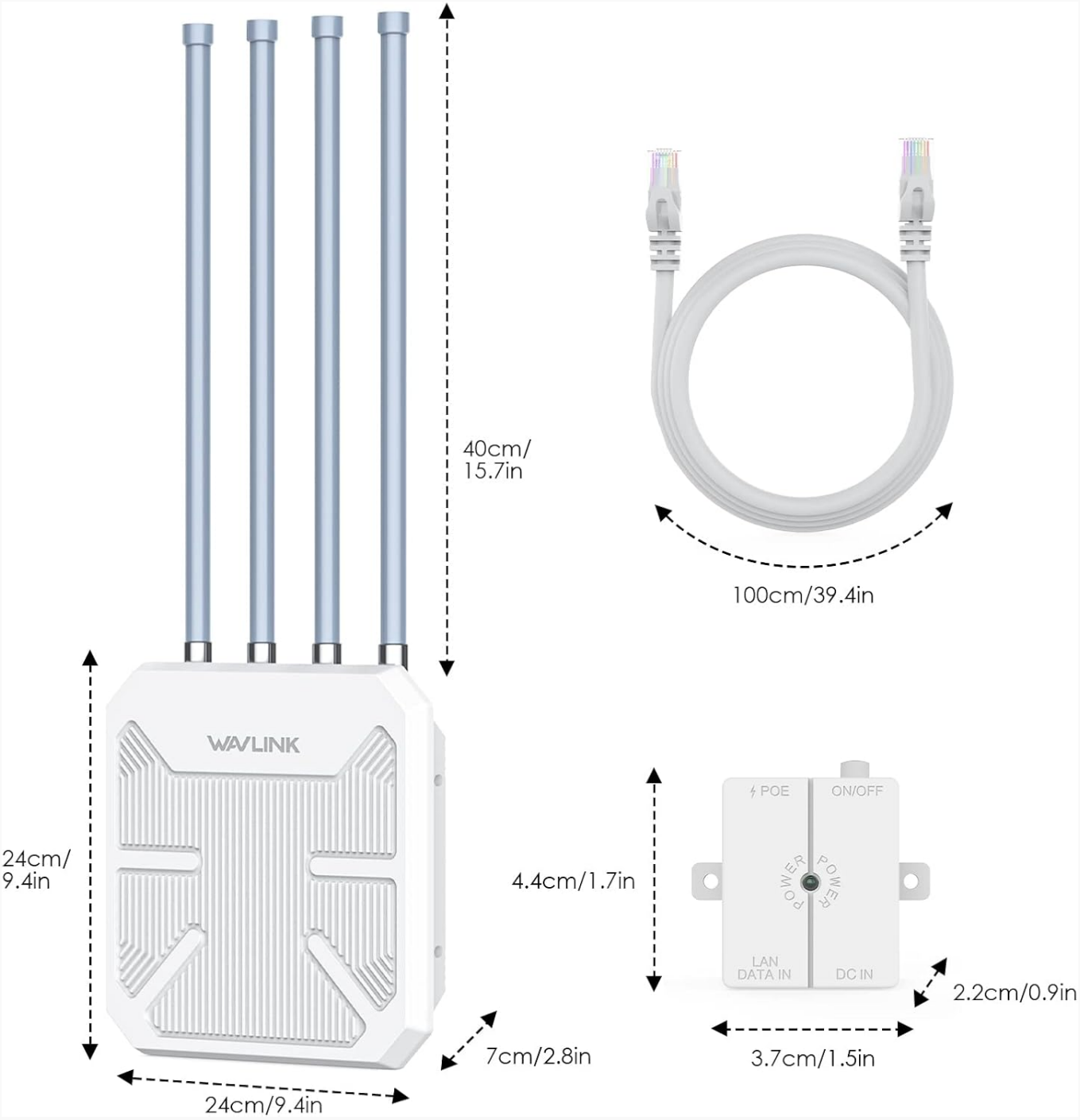

Image 6.1: Detailed dimensions of the WAVLINK WN573HX1 device and its PoE adapter, including antenna length and main unit measurements.

7. Troubleshooting

If you encounter issues with your WAVLINK WN573HX1, please refer to the following common troubleshooting steps:

- **No Power:** Ensure the PoE converter is properly connected to both the device and a power outlet. Check all cable connections.

- **Cannot Connect to WiFi:**
  - Verify the device is powered on and the indicator lights are active.
  - Perform a factory reset (press and hold the reset button for 6 seconds) and reconfigure the device.
  - Ensure you are connecting to the correct SSID and using the correct password.
  - If in Repeater mode, ensure the device is within range of the main router's signal.
- **Slow Internet Speed:**
  - Check the quality of your main internet connection.
  - Ensure the device is positioned optimally, with minimal obstructions between it and your client devices, and between it and the main router (if in Repeater/Mesh mode).
  - Verify that the Ethernet cable used for PoE is CAT5E or higher and does not exceed 100m/328ft.
  - Consider switching to AP mode with a wired backhaul for more stable performance if currently using Repeater mode.
- **Management Interface Inaccessible:**
  - Ensure your device is connected to the WN573HX1's Wi-Fi network or directly via Ethernet.
  - Try accessing http://waplogin.link or the default IP address (e.g., 192.168.10.1).
  - Clear your browser's cache or try a different browser.

8. Maintenance

To ensure the longevity and optimal performance of your WAVLINK WN573HX1 outdoor device, follow these maintenance guidelines:

- **Regular Cleaning:** Periodically inspect the device and antennas for dirt, dust, or debris. Gently clean the exterior with a soft, damp cloth. Do not use harsh chemicals or abrasive materials.
- **Inspect Cables:** Check Ethernet cables and connections for any signs of wear, damage, or corrosion, especially at the waterproof connector. Replace damaged cables promptly.
- **Firmware Updates:** Regularly check the WAVLINK official website for firmware updates. Keeping your device's firmware up-to-date can improve performance, stability, and security.
- **Environmental Checks:** Ensure the mounting remains secure, especially after severe weather conditions. Verify that no new obstructions are blocking the signal path.

9. Warranty and Support

9.1 Warranty Information

This product comes with a**12-month warranty** from the date of purchase. The warranty covers manufacturing defects and malfunctions under normal use. It does not cover damage caused by misuse, accidents, unauthorized modifications, or natural disasters.

9.2 Customer Support

For technical assistance, troubleshooting, or warranty claims, please contact WAVLINK customer support. Refer to the contact information provided in your Quick Installation Guide or visit the official WAVLINK website for the most up-to-date support resources.
When contacting support, please have your product model (WN573HX1) and purchase details readily available.

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