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WAVLINK WL-WN573HX3 GW

WAVLINK AX3000 Outdoor WiFi 6 Extender Instruction Manual

Model: WL-WN573HX3 GW

1. Introduction

The WAVLINK AX3000 Outdoor WiFi 6 Extender is designed to provide extended wireless coverage and high-speed internet access in outdoor environments. This device supports the latest Wi-Fi 6 (IEEE 802.11ax) standard, offering dual-band speeds up to 2402 Mbps on the 5 GHz band and 573 Mbps on the 2.4 GHz band. Equipped with four 8 dBi omnidirectional antennas and powerful amplifiers, it delivers a wide Wi-Fi coverage area and supports up to 128 simultaneous connections. Its robust IP67-rated waterproof enclosure, 15 kV ESD protection, and 6 kV lightning protection ensure reliable operation in various weather conditions.



Image 1.1: WAVLINK AX3000 Outdoor WiFi 6 Extender in an outdoor setting, illustrating dual-band WiFi 6 capabilities (2.4GHz at 573Mbps and 5GHz at 2402Mbps).



Image 1.2: The extender offering wider coverage and faster speeds, supporting up to 128 devices simultaneously in an outdoor environment.

2. Package Contents

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

- 1 x WAVLINK AX3000 Outdoor WiFi 6 Extender
- 4 x 8 dBi Omnidirectional Antennas (pre-attached or to be attached)
- 1 x PoE Injector (Power over Ethernet)
- 1 x Ethernet Cable
- 1 x Wrench
- 2 x Silicone Pads
- Various Screws for mounting
- 4 x Cable Ties
- Quick Installation Guide



Image 2.1: Overview of the WAVLINK AX3000 Outdoor WiFi 6 Extender package contents.

3. Product Overview

The WAVLINK AX3000 is designed for robust outdoor performance. It features a durable, IP67-rated waterproof casing, providing protection against dust and water ingress. Integrated 15 kV ESD protection and 6 kV lightning protection safeguard the device from electrical surges and environmental hazards. The device includes a Gigabit Ethernet port for high-speed wired connections and supports Power over Ethernet (PoE) for flexible power

options.



Image 3.1: Front view of the WAVLINK AX3000 Extender, showing the main unit, antennas, Ethernet cable, and PoE injector.

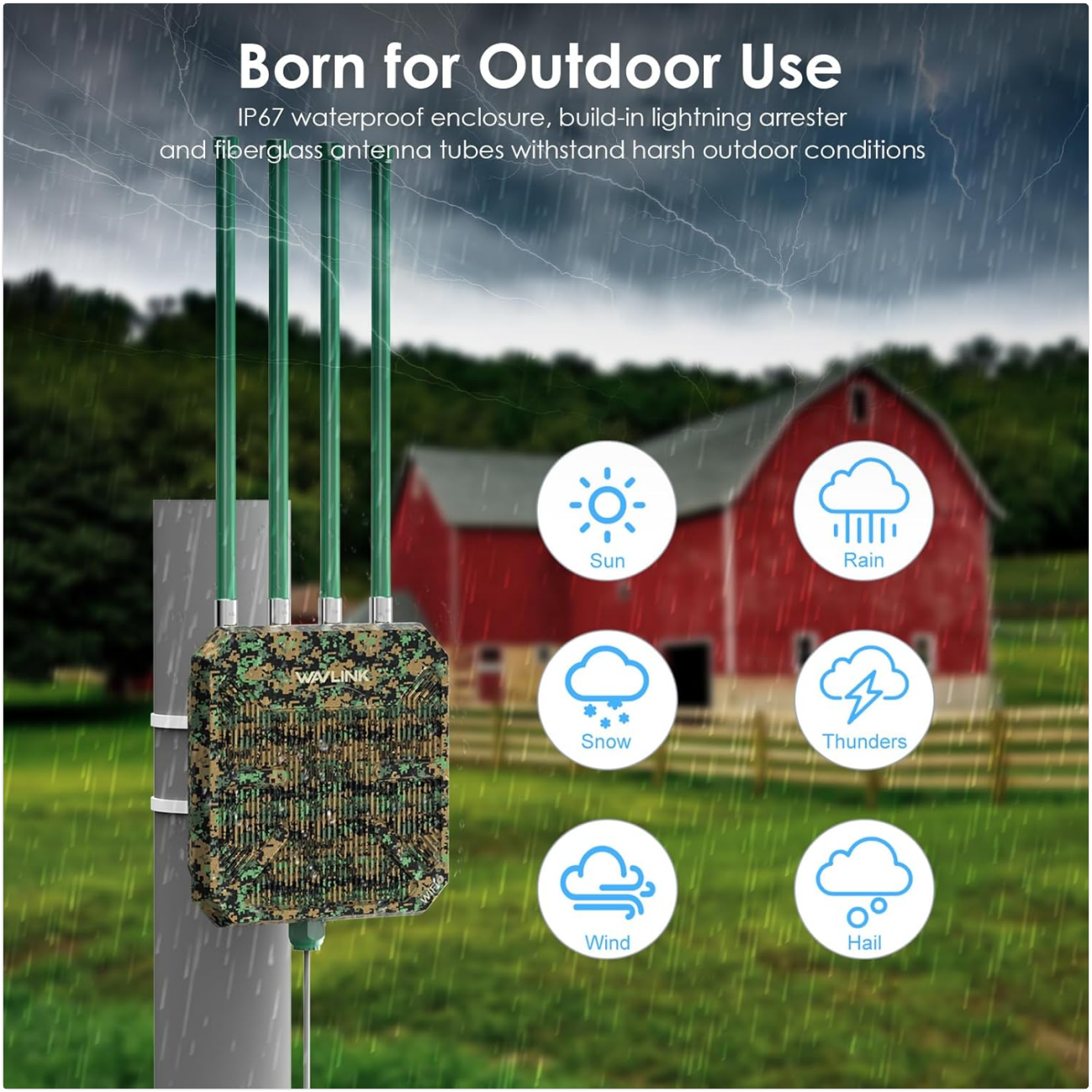

Image 3.2: The extender's outdoor durability, highlighting its IP67 waterproof enclosure, built-in lightning arrester, and fiberglass antenna tubes designed to withstand harsh outdoor conditions.

4. Setup and Installation

4.1 Power over Ethernet (PoE) Connection

The device supports both 802.3AF/AT active PoE and passive PoE, allowing data transfer and power delivery through a single Ethernet cable. This enables flexible installation in outdoor locations where power outlets may not be readily available. Ensure the PoE converter is installed in a dry, protected area as it is not waterproof. Use a CAT5E Ethernet cable or higher, with a maximum length of 100 meters (328 feet).

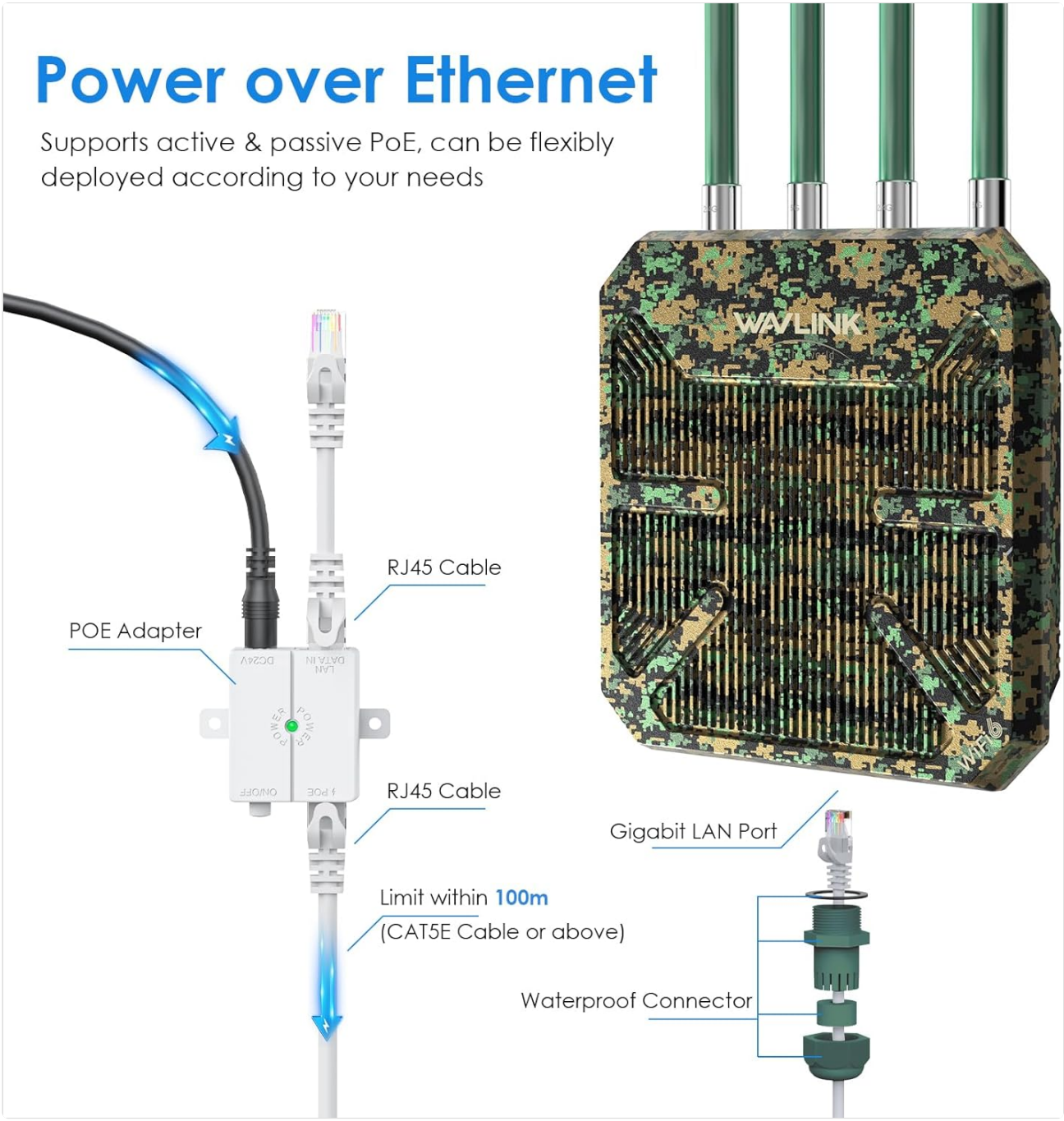

Image 4.1: Illustration of the Power over Ethernet setup, detailing connections from the PoE adapter to the device's Gigabit LAN port via RJ45 cables and a waterproof connector.

4.2 Physical Installation

Follow these steps for mounting the device:

1. **Attach Antennas:** Securely screw the four 8 dBi omnidirectional antennas onto the device's antenna ports.
2. **Prepare Mounting Surface:** Clean the surface where the device will be mounted (e.g., a pole or wall).
3. **Apply Silicone Pads:** Stick the two silicone pads onto the bracket and the mounting post/surface respectively to ensure a secure fit and prevent slippage.
4. **Thread Cable Ties:** Pass the provided cable ties through the designated fixing points on the device's bracket.
5. **Secure Device:** Position the device against the mounting surface and use the cable ties to firmly secure it. Tighten the cable ties until the device is stable.
6. **Connect Ethernet Cable:** Connect the Ethernet cable from the PoE injector to the device's Gigabit LAN port, ensuring the waterproof connector is properly sealed.

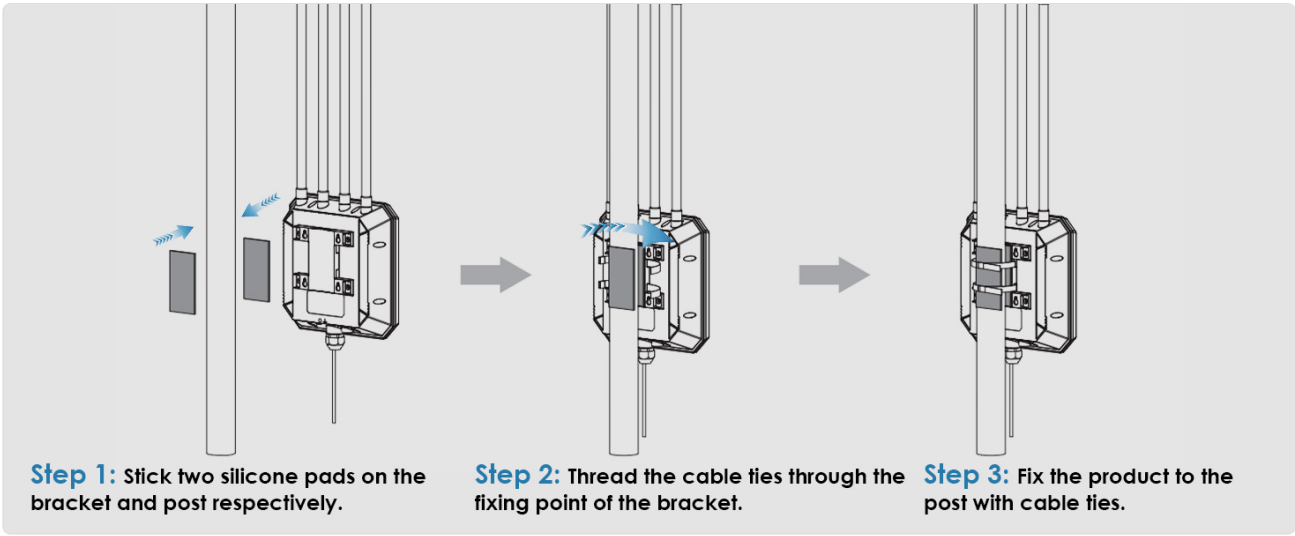

Image 4.2: Detailed installation instructions for the device, including the sequence for attaching components and mounting.

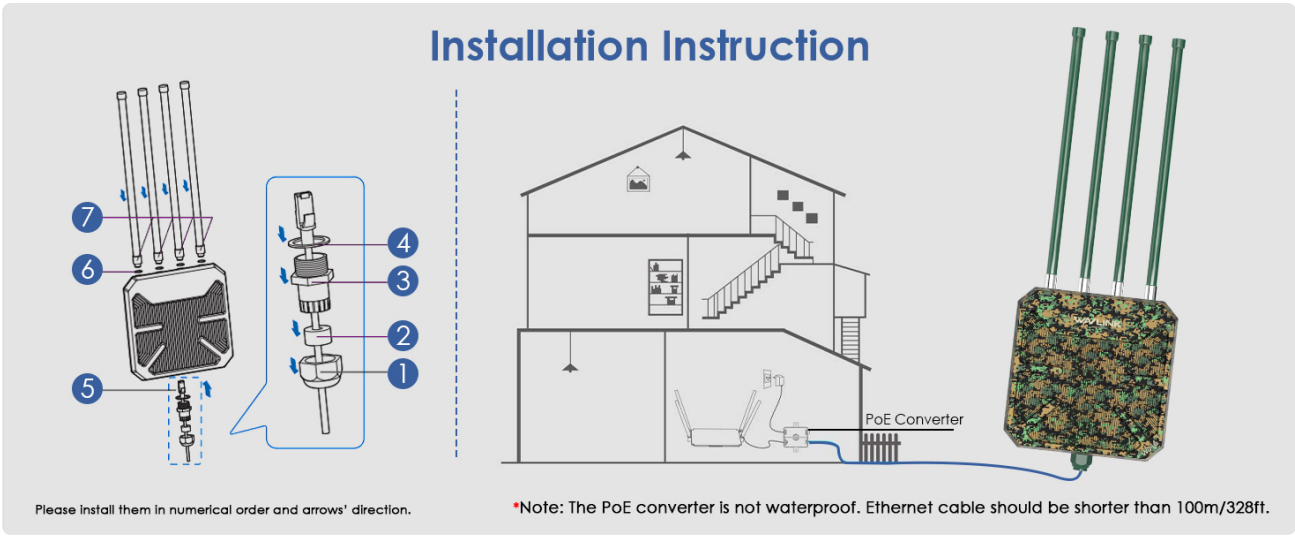

Image 4.3: Step-by-step visual guide for securing the device to a post using silicone pads and cable ties.

5. Operating Modes

The WAVLINK AX3000 supports multiple operating modes to suit various network requirements:

- **Mesh Mode:** Creates a seamless mesh network for extended, stable roaming. This mode is specifically available for other WAVLINK series products.
- **AP (Access Point) Mode:** Converts a wired connection into a wireless network, allowing wireless devices to connect.
- **Router Mode:** Functions as a primary router, managing network traffic and providing internet access.
- **Repeater Mode:** Extends the coverage of an existing wireless network by repeating its signal.
- **AP+Repeater Mode:** Combines the functionalities of an Access Point and a Repeater.

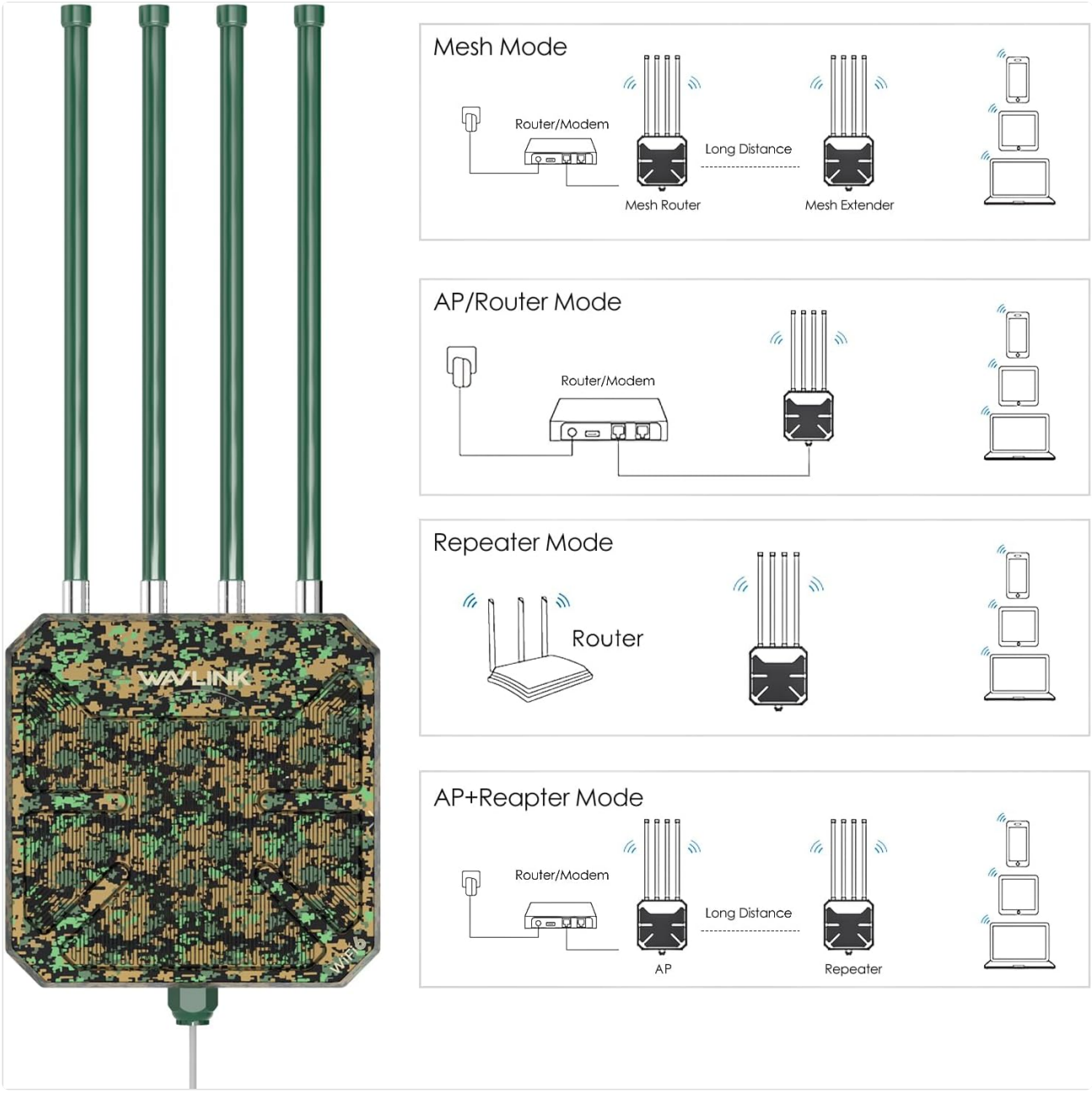

Image 5.1: Visual representation of the different operating modes: Mesh, AP/Router, Repeater, and AP+Repeater.

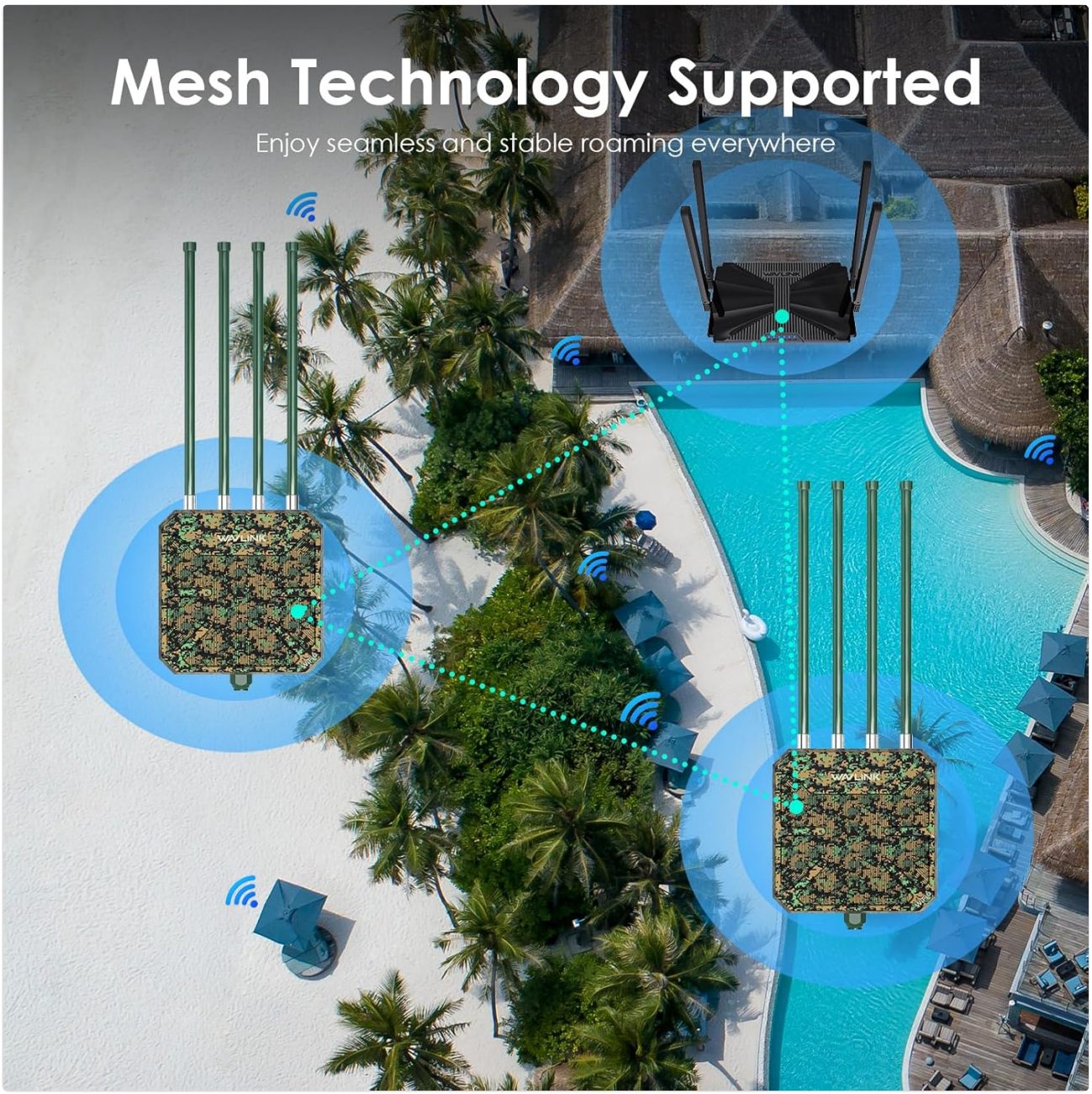

Image 5.2: Mesh technology in action, providing seamless and stable roaming across a large outdoor area.

6. Configuration

The WAVLINK AX3000 is typically configured via a web-based interface. After physical installation and power-up, connect a computer to the device (either directly via Ethernet or wirelessly to its default SSID). Open a web browser and enter the default IP address (usually found in the Quick Installation Guide or on a label on the device) to access the setup wizard. Follow the on-screen instructions to configure your desired operating mode, network name (SSID), password, and other settings.

7. Maintenance

To ensure optimal performance and longevity of your WAVLINK AX3000 Outdoor WiFi 6 Extender, consider the following maintenance tips:

- **Regular Cleaning:** Periodically inspect the device for dirt, dust, or debris accumulation, especially around

the antenna connections and ports. Gently clean the exterior with a soft, dry cloth.

- **Check Connections:** Ensure all cable connections, particularly the Ethernet cable and antenna connections, remain secure and free from corrosion.
- **Firmware Updates:** Check the WAVLINK official website for available firmware updates. Keeping the firmware updated can improve performance, security, and add new features.
- **Environmental Inspection:** Regularly inspect the mounting location and the device's casing for any signs of damage or wear due to weather exposure.

8. Troubleshooting

If you encounter issues with your WAVLINK AX3000, refer to the following common troubleshooting steps:

- **No Power:** Verify that the PoE injector is properly connected to a power source and the Ethernet cable is securely connected to both the injector and the device. Check for any damage to the cables.
- **No Internet Access:** Ensure the upstream router or modem is functioning correctly. Check the Ethernet connection between the PoE injector and your network. If in Repeater mode, ensure the main Wi-Fi signal is strong and stable.
- **Weak Signal or Poor Performance:** Adjust the device's position and antenna orientation to optimize signal strength. Ensure there are no major obstructions between the device and client devices. Check for potential interference from other wireless devices.
- **Cannot Access Web Interface:** Confirm your computer is connected to the device's network. Try resetting your computer's network adapter. Verify the correct IP address is being used.
- **Factory Reset:** If issues persist, a factory reset may resolve configuration problems. Locate the reset button (usually a small pinhole) on the device or PoE injector, press and hold it for approximately 5-10 seconds while the device is powered on, then release. The device will restart with default settings.

9. Specifications

Feature	Detail
Model Number	WL-WN573HX3 GW
Wireless Standard	IEEE 802.11ax (WiFi 6), compatible with ac/a/b/g/n
Data Transfer Rate	Up to 3000 Mbps (2.4 GHz: 573 Mbps, 5 GHz: 2402 Mbps)
Frequency Band	Dual-band (2.4 GHz and 5 GHz)
Antennas	4 x 8 dBi Omnidirectional Fiberglass Antennas
Ports	1 x Gigabit Ethernet Port (10/100/1000 Mbps)
Power Supply	802.3AF/AT Active PoE, Passive PoE
Environmental Protection	IP67 Waterproof Enclosure, 15 kV ESD Protection, 6 kV Lightning Protection
Operating Temperature	-20°C to 50°C (-4°F to 122°F)
Storage Temperature	-30°C to 70°C (-22°F to 158°F)

Feature	Detail
Operating Humidity	10% to 90% RH (non-condensing)
Storage Humidity	10% to 90% RH (non-condensing)
Wireless Security	WPA2-PSK, WPA2/WPA3-MIX
Compatible Devices	Starlink, Routers, Modems, WiFi Extenders

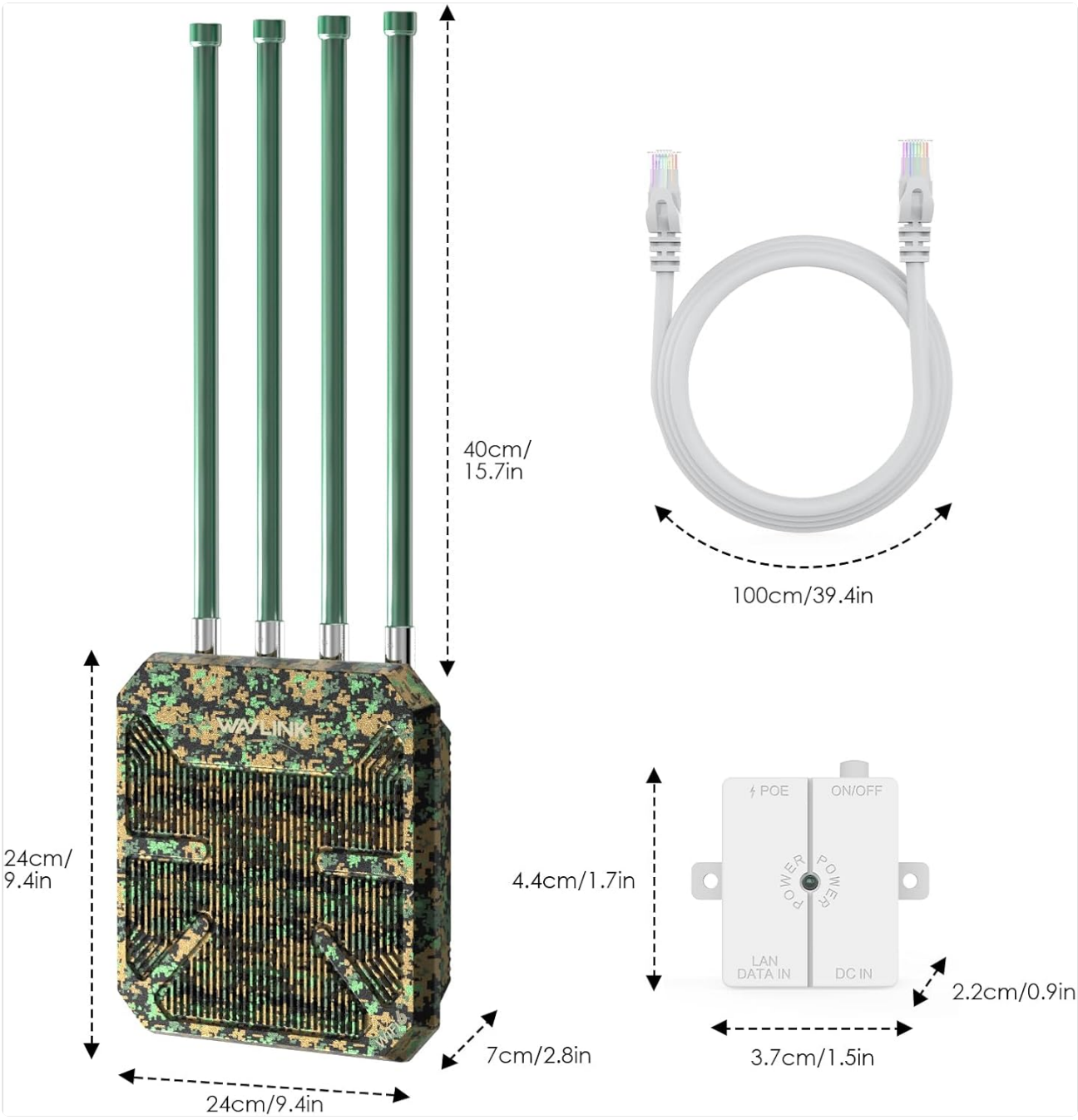

Image 9.1: Dimensions of the WAVLINK AX3000 Extender and its accessories.

10. Warranty and Support

WAVLINK provides a **2-year warranty** for this product. For technical assistance or any questions regarding your WAVLINK AX3000 Outdoor WiFi 6 Extender, please contact our support team:

- **Phone Support:** +18889730883 (UTC-5) Monday to Friday, 9:00 AM - 6:00 PM
- **Email Support:** Contact@wavlink.com

We aim to provide solutions within 8 hours and offer lifetime technical support.

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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.

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Answered questions about this manual

Can I use the WAVLINK WL-WN573HX3 GW AX3000 Outdoor Wi-Fi 6 Extender in Repeater Mode to connect a security camera in a remote parking lot using solar power?

Yes, the WAVLINK WL-WN573HX3 GW (AX3000) supports a Repeater Mode specifically designed to extend the coverage of an existing wireless network. However, there are several technical factors to consider for your specific setup: Signal...

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