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WAVLINK 573HP3

WAVLINK AX3000 WiFi 6 Outdoor Access Point Instruction Manual

Model: 573HP3

1. Introduction

The WAVLINK AX3000 WiFi 6 Outdoor Access Point is designed to extend your wireless network coverage to outdoor environments. Featuring IP67 waterproofing, 15kV ESD protection, and 6kV lightning protection, it is built to withstand harsh weather conditions. This device supports WiFi 6 (802.11ax) for high-speed dual-band connectivity, MU-MIMO, and Beamforming technology, allowing up to 256 devices to connect simultaneously. It offers multiple operating modes including Mesh, AP, Router, and Repeater, and supports Power over Ethernet (PoE) for flexible installation.



Figure 1: WAVLINK AX3000 WiFi 6 Outdoor Access Point, showing its sleek white design and outdoor application.

2. Key Features

- **WiFi 6 Dual-Band Speeds:** Supports up to 2402Mbps on 5GHz and 573Mbps on 2.4GHz, reducing interference and congestion.
- **High Device Capacity:** Connects up to 256 devices simultaneously using MU-MIMO and Beamforming technology.
- **3KM Point-to-Point (PtP) Transmission:** Achieves long-range data transmission over 3km (1.9 miles) in barrier-free environments.
- **300M Directional Coverage:** Equipped with 4 built-in 12dBi directional antennas (2 x 2.4GHz, 2 x 5GHz) for stable directional wireless coverage.
- **4-in-1 Multi-Function Modes:** Supports Mesh, AP, Router, and Repeater modes with one-click switching.
- **Flexible Installation with PoE:** Compatible with 802.3AF/AT active PoE and passive PoE for easy setup without additional power sources. Can be wall-mounted or pole-mounted.
- **IP67 Weatherproof Design:** Designed for harsh outdoor conditions with IP67 waterproof enclosure, 15kV ESD protection, and 6kV lightning protection.



Figure 2: Overview of key features including WiFi 6, PoE support, WPA3 security, 256 device capacity, and high-gain antennas.

3. What's in the Box

- 1 × AX3000 WiFi 6 Outdoor Access Point
- 1 × 54V Power Adapter
- 4 × Cable Ties
- 1 × PoE Converter
- 2 × Silicone Pads
- 1 × Ethernet Cable
- 1 × Main Body Holder
- 1 × PWM M4×8×8MM Screw
- 1 × Wrench
- 6 × KA M4×25×6MM Screws
- 1 × Quick Start Guide

- 6 × Φ8x25MM Screw Plugs



Figure 3: All components included in the product packaging.

4. Setup Guide

4.1 Initial Setup and Connections

Before mounting the device, familiarize yourself with the connections. The outdoor access point requires power via Power over Ethernet (PoE). The PoE converter, which supplies power and data, must be used indoors or in a protected environment as it is not waterproof. Use a CAT5E or above Ethernet cable, not exceeding 100m/328ft in length.

▶ **Watch video online**
WiFi Access with the AX3000 WiFi 6 Wireless Outdoor Repeater

Video 1: Demonstrates the unboxing and initial connection steps for the WAVLINK AX3000 WiFi 6 Outdoor Access Point, including connecting the Ethernet cable and PoE injector.



Figure 4: Diagram illustrating the Power over Ethernet (PoE) connection, showing the PoE adapter, RJ45 cables, Gigabit LAN port, and waterproof connector. Note that the PoE converter is for indoor use only.

4.2 Physical Installation

The WAVLINK AX3000 can be wall-mounted or pole-mounted. Ensure the installation location provides optimal signal coverage and avoids obstacles. The waterproof grommet should be securely tightened around the Ethernet cable to prevent water ingress.

1. **Prepare Mounting Surface:** Choose a suitable location for mounting (wall or pole).
2. **Attach Silicone Pads:** Stick the two silicone pads onto the main body holder and the post respectively, as shown in the diagram.
3. **Secure with Cable Ties:** Thread the provided cable ties through the fixing points of the bracket and around the pole or mounting surface.
4. **Tighten:** Securely fasten the cable ties to hold the access point firmly in place.



Figure 5: Example of the access point mounted on a fence post, demonstrating a typical outdoor installation scenario.

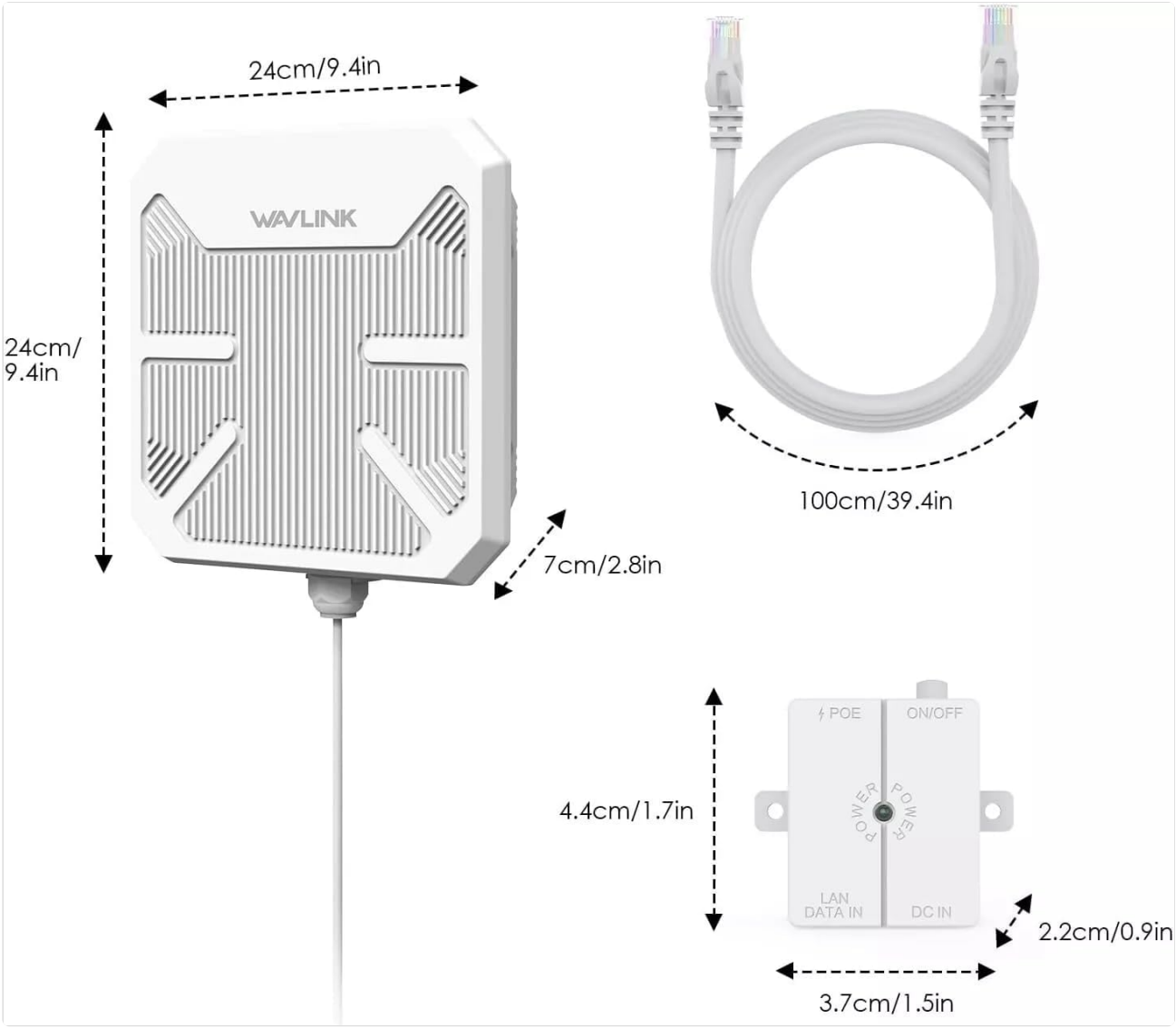

Figure 6: Detailed dimensions of the WAVLINK AX3000 unit and its accompanying PoE converter, useful for planning installation space.

5. Operating Modes

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

- **Mesh Mode:** Creates a seamless mesh network with other compatible devices for extended coverage and seamless roaming.
- **AP (Access Point) Mode:** Connects to a wired router/modem and broadcasts a wireless signal, turning a wired network into a wireless one.
- **Router Mode:** Functions as a primary router, connecting to a modem and providing both wired and wireless network access.
- **Repeater Mode:** Extends the range of an existing wireless network by receiving and re-transmitting the signal.



Figure 7: Visual representation of the different operating modes supported by the device, illustrating how it can be integrated into various network setups.

6. Operation

6.1 Directional Antenna Alignment

For optimal signal strength and coverage, ensure the directional antenna is pointed towards the target area. Avoid obstacles that may interfere with signal transmission. Adjust the device's angle and direction as needed to achieve the best signal coverage.

6.2 Device Capacity and Coverage

The AX3000 can support up to 256 connected devices simultaneously, making it suitable for large outdoor spaces such as farms, backyards, RV parks, and public areas. It provides stable directional wireless coverage up to 300 meters.



Figure 8: Examples of various application scenarios where the WAVLINK AX3000 can provide extended WiFi coverage, including yards, swimming pools, parks, outdoor cafes, and amphitheaters.

6.3 Point-to-Point (PtP) and Point-to-Multipoint (PtMP) Transmission

For long-range wireless data transmission, the device supports PtP and PtMP configurations. It has been tested to achieve over 3km (1.9 miles) in barrier-free fields for paired PtP or PtMP transmission. For PtMP, it can support up to 6 receivers.

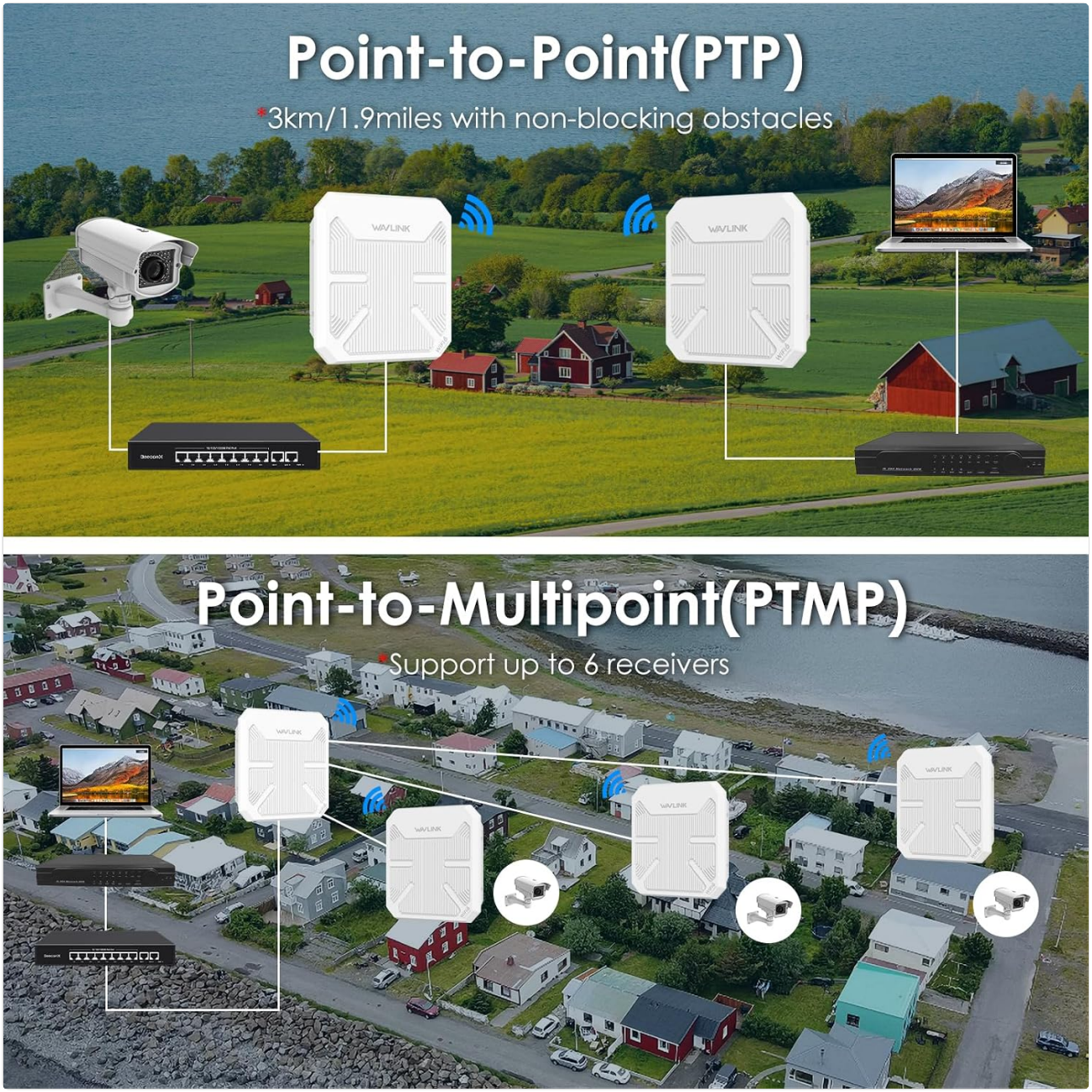

Figure 9: Visual explanation of Point-to-Point (PTP) and Point-to-Multipoint (PTMP) configurations, showing how multiple devices can connect over long distances.

7. Maintenance

The WAVLINK AX3000 is designed for durability in outdoor environments. Its IP67 waterproof enclosure, 15kV ESD protection, and 6kV lightning protection ensure reliable operation in various weather conditions, including rain, snow, wind, and thunderstorms. Regular visual inspection for any physical damage or obstructions is recommended. Ensure the waterproof cable connections remain secure.

8. Troubleshooting

8.1 Signal Strength Issues

If the WiFi signal does not reach the advertised distance, ensure there are no obstacles between the WAVLINK device and the target area. Obstacles can significantly limit performance. For optimal performance, install the device 2-3 meters higher than the ground. The WAVLINK device provides 120-degree horizontal coverage; ensure your device is within this range.

8.2 PoE Converter Not Waterproof

The PoE converter is not waterproof and must be used indoors or in a protected environment to prevent damage.

8.3 Long-Range WiFi Transmission

To achieve long-range wireless data transmission (e.g., 3km), it is recommended to use two devices together. Configure the first WAVLINK device in AP mode and the second WAVLINK device in repeater mode to repeat the WiFi signal. The current device (573HP3) has directional antennas, providing good signal in a specific direction. If you need 360-degree coverage, consider an omnidirectional antenna model.

9. Specifications

Attribute	Value
Product Dimensions	9.4 x 2.8 x 9.4 inches
Item Weight	2.42 pounds
Item Model Number	573HP3
Wireless Communication Standard	802.11ac, 802.11ax, 802.11b/g
Data Transfer Rate	5 GHz (2402Mbps), 2.4 GHz (573Mbps)
Frequency Band Class	Dual-Band
Special Features	3KM PtP or PtMP Transmission, AX3000, WiFi 6, Optional PoE Power Supply, Outdoor WiFi Extender Long Range, IP67 Waterproof Enclosure, Mesh Seamless WiFi Roaming, Access Point Mode, Built-in 4x12dBi Directional Antennas
Manufacturer	WAVLINK

10. Warranty and Support

All WAVLINK products come with a 30-day free return and refund service, and a 12-month warranty. For any questions or technical assistance, please contact WAVLINK support:

- **Phone Support:** +18889730883 (UTC-5) Mon - Fri 9 AM - 6 PM
- **Email Support:** Contact@wavlink.com

WAVLINK aims to provide solutions within 8 hours and offers life-long 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.

Submit question

Answered questions about this manual

Why does my 4-month-old WAVLINK AX3000 (573HP3) outdoor access point have reduced power or signal strength?

If your WAVLINK AX3000 (Model 573HP3) is experiencing reduced power or signal strength after several months of use, please check the following troubleshooting steps based on the product manual: Check for Physical Obstructions: Ensure...

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