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WAVLINK RY570HA1B

WAVLINK AC600 Outdoor WiFi Extender User Manual

Model: RY570HA1B

1. Introduction

The WAVLINK AC600 Outdoor WiFi Extender is a high-performance, dual-band wireless access point designed to provide robust and extended Wi-Fi coverage in outdoor environments. This device supports both 2.4GHz and 5GHz frequencies, offering flexible connectivity options and high data transfer rates. Its weatherproof design ensures reliable operation in various outdoor conditions, making it ideal for yards, gardens, patios, and other outdoor spaces requiring stable internet access.





Figure 1.1: The WAVLINK AC600 Outdoor WiFi Extender with its Power over Ethernet (PoE) injector, illustrating the device and its power/data connection.

2. Key Features

- **Dual-Band Connectivity:** Supports 2.4GHz (up to 150Mbps) and 5GHz (up to 433Mbps) for a combined speed of up to 600Mbps, ensuring fast and stable connections.
- **Long-Range Coverage:** Equipped with dual 7dBi omni-directional antennas, providing extended Wi-Fi range up to 650 feet (200 meters) outdoors.
- **Weatherproof Design:** IP65-rated enclosure protects against dust and water ingress, allowing operation in extreme temperatures from -22°F to 158°F (-30°C to 70°C).
- **Power over Ethernet (PoE):** Integrated PoE support simplifies installation by combining power and data transmission over a single RJ-45 Ethernet cable, eliminating the need for a nearby power outlet.
- **Multiple Operating Modes:** Functions as a Router, Access Point (AP), or Repeater, offering versatility for various network setups.
- **Enhanced Protection:** Features 15KV ESD and 4KV lightning safeguards for increased durability and reliability

in outdoor environments.

- **High Device Capacity:** Capable of supporting 32-64 simultaneous device connections.



Figure 2.1: Illustration of the dual-band capabilities, showing 2.4GHz at 150Mbps and 5GHz at 433Mbps, enhancing outdoor Wi-Fi coverage.

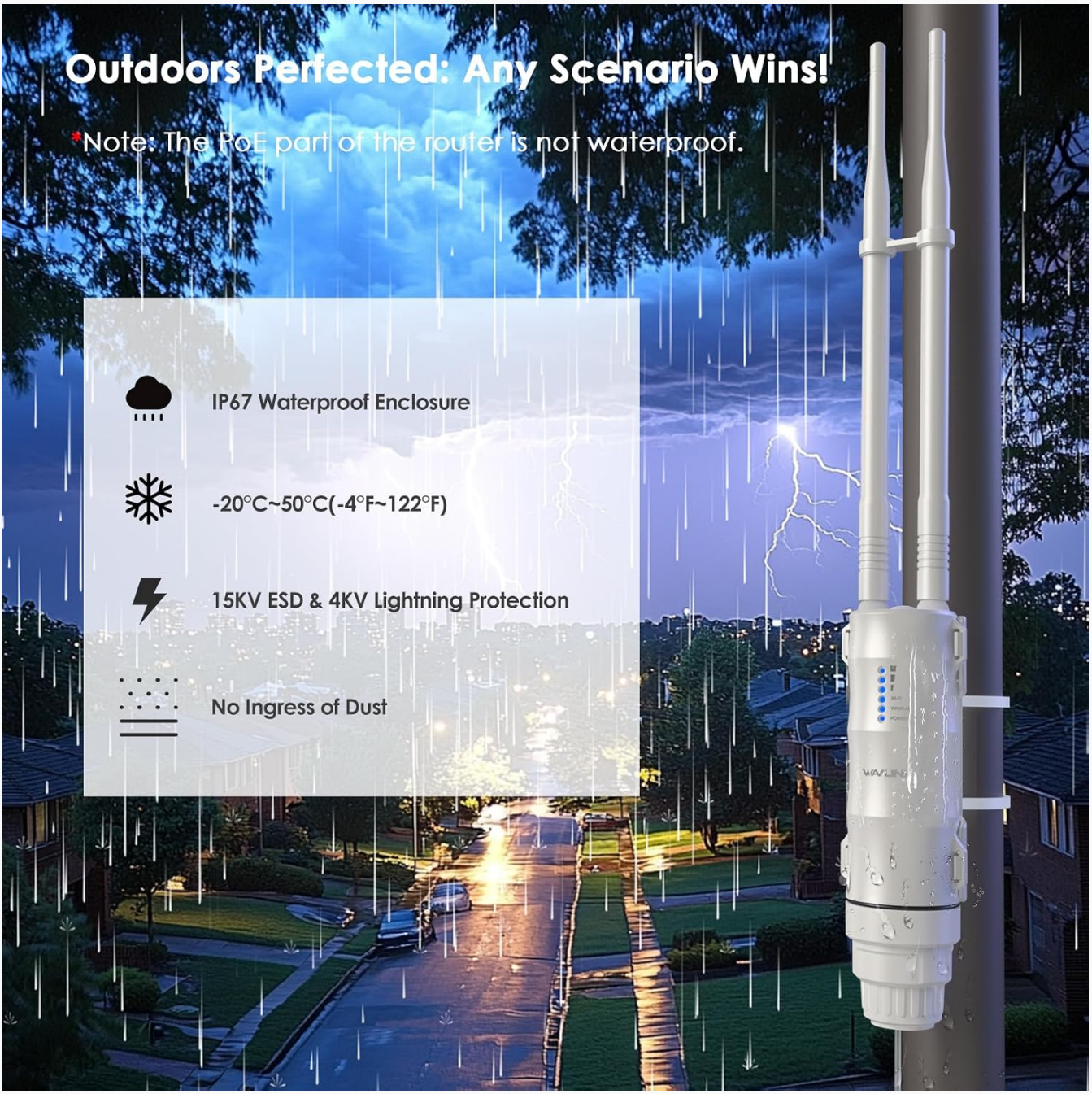

Figure 2.2: Details on the IP65 waterproof enclosure, temperature resistance, 15KV ESD, and 4KV lightning protection, highlighting the device's outdoor durability.

3. Package Contents

Verify that all items are present in your package:

- WAVLINK AC600 Outdoor WiFi Extender
- PoE Power Adapter
- Ethernet Cable
- Mounting Kit (including pole straps and screws)
- Quick Installation Guide

4. Setup and Installation

Follow these steps for proper installation and setup of your WAVLINK AC600 Outdoor WiFi Extender.

4.1 Physical Installation

The device supports both pole mounting and wall mounting. Ensure the device is mounted at least 2 meters above the ground for optimal signal performance.

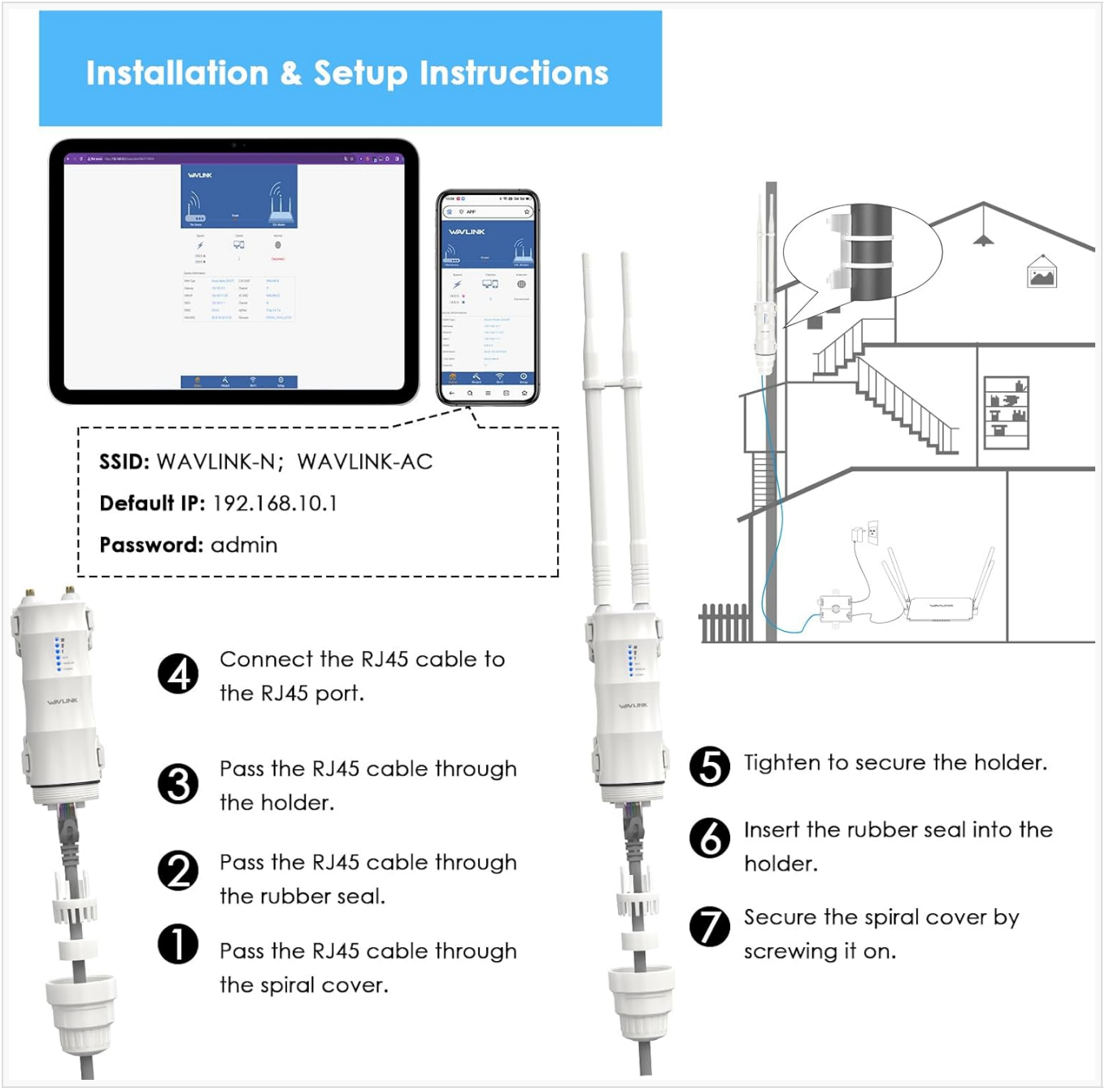

Figure 4.1: Step-by-step diagram for connecting the RJ45 cable and securing the device for installation.

1. Pass the RJ45 cable through the spiral cover.
2. Pass the RJ45 cable through the rubber seal.
3. Pass the RJ45 cable through the holder.
4. Connect the RJ45 cable to the RJ45 port on the device.
5. Tighten the holder to secure the cable.
6. Insert the rubber seal into the holder.

7. Secure the spiral cover by screwing it on.

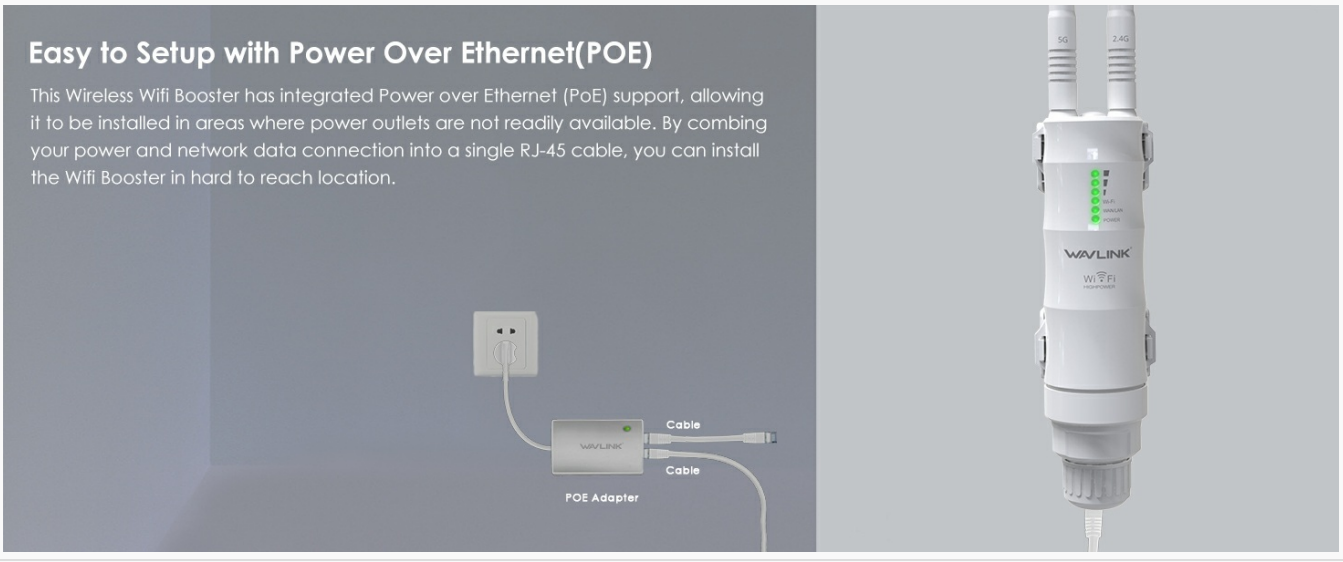

Figure 4.2: Diagram illustrating the Power over Ethernet (PoE) connection from the power adapter to the device via a single RJ-45 cable.

4.2 Initial Configuration

The default IP address for configuration is **192.168.10.1**. The default password is **admin**. The default SSIDs are **WAVLINK-N** (for 2.4GHz) and **WAVLINK-AC** (for 5GHz).

1. Connect your computer directly to the LAN port of the PoE adapter using an Ethernet cable.
2. Ensure your computer's IP settings are set to obtain an IP address automatically (DHCP).
3. Open a web browser and enter 192.168.10.1 in the address bar.
4. Log in using the default username (admin) and password (admin).
5. Follow the on-screen wizard to configure the device according to your desired operating mode.

5. Operating Modes

The WAVLINK AC600 supports three primary operating modes:

5.1 Router Mode

In Router Mode, the device acts as a primary router, connecting to your modem and providing internet access to all connected devices. It creates a new network and manages IP addresses.

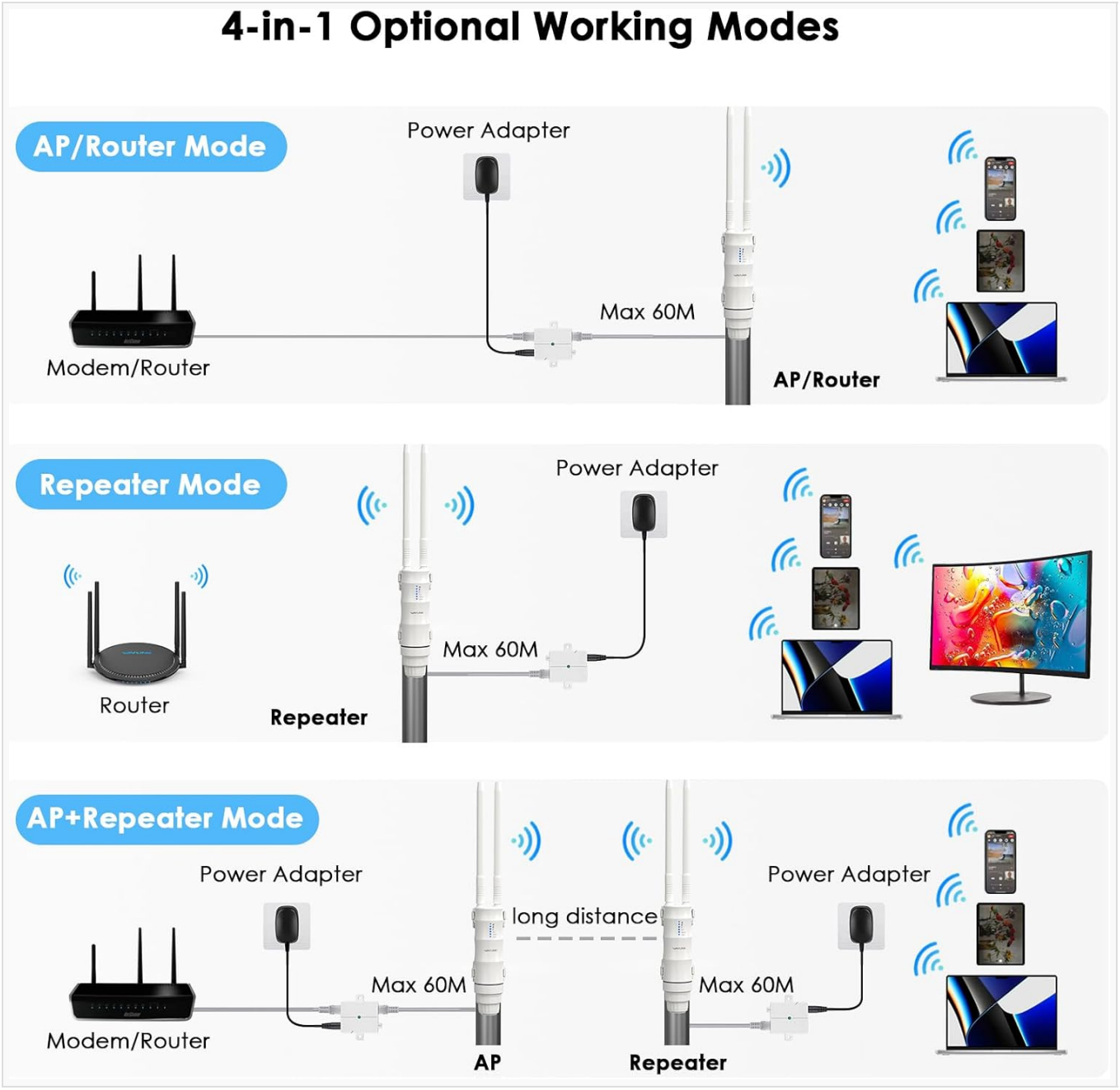

Figure 5.1: Diagram showing the AP/Router Mode setup, where the device connects to a modem/router and provides Wi-Fi to client devices.

5.2 Repeater Mode

Repeater Mode extends the coverage of an existing Wi-Fi network. The device connects wirelessly to your main router and re-broadcasts the signal, eliminating Wi-Fi dead zones.

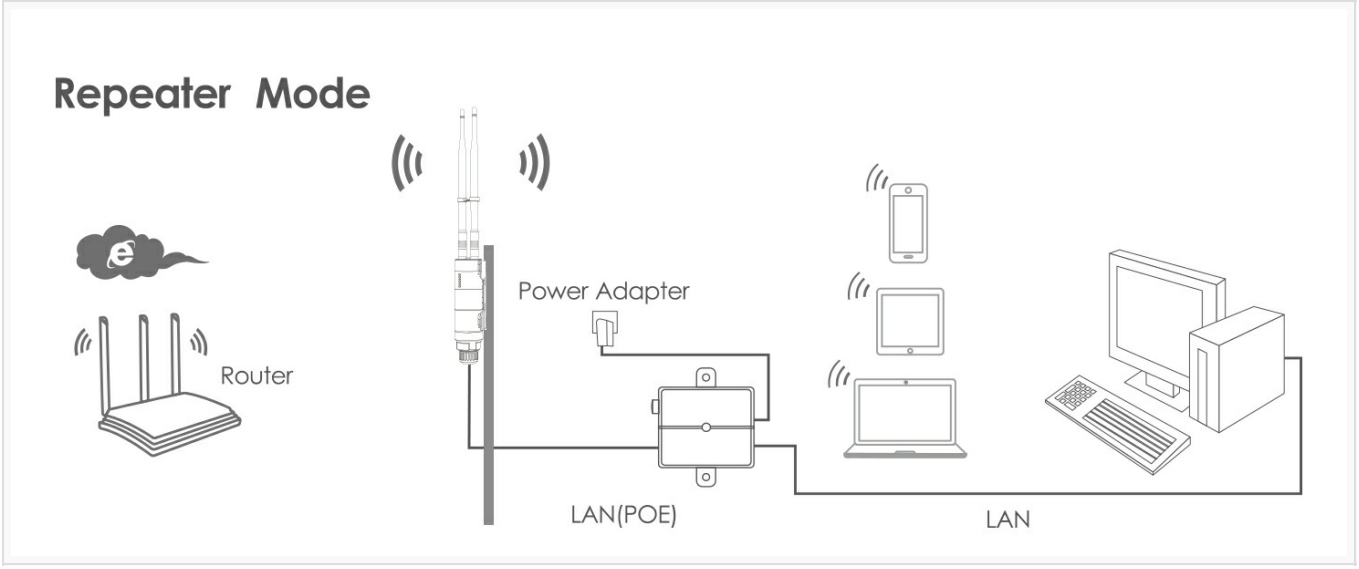

Figure 5.2: Diagram illustrating Repeater Mode, where the device wirelessly extends the signal from an existing router to client devices.

5.3 Access Point (AP) Mode

In AP Mode, the device connects to an existing wired network (e.g., from a router or switch) and transforms it into a wireless network. This is useful for adding Wi-Fi capability to a wired-only network or extending a wired network wirelessly.

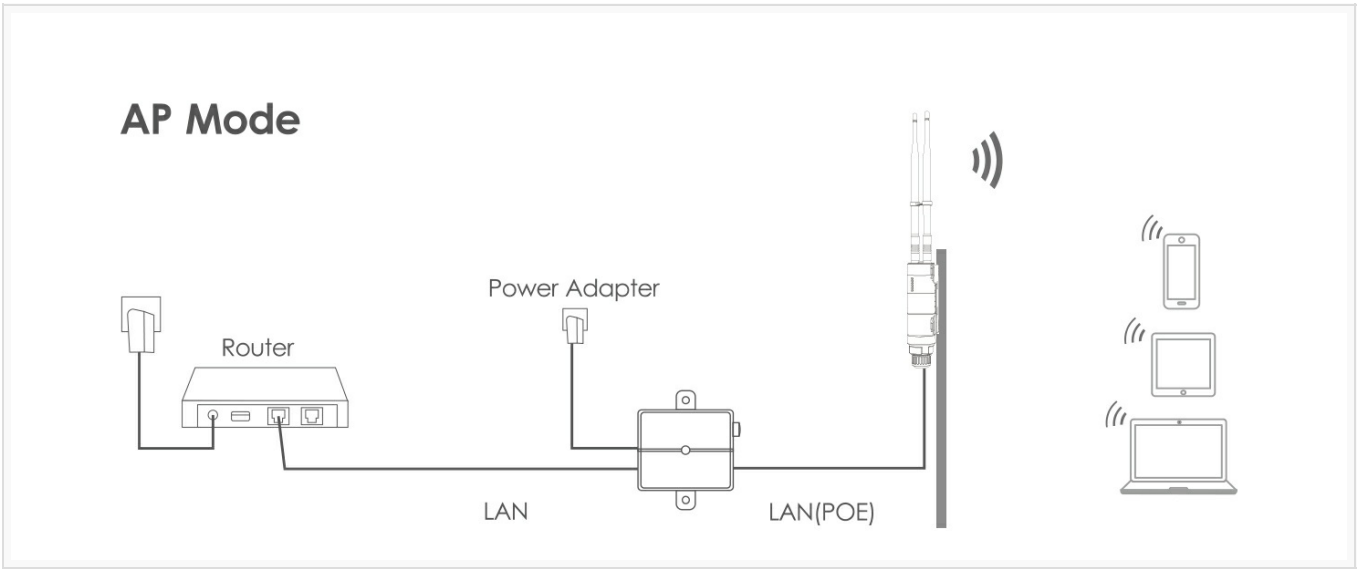

Figure 5.3: Diagram depicting AP Mode, where the device connects to a wired router and broadcasts a wireless signal for client devices.

6. Specifications

Feature	Specification
Model Number	RY570HA1B
Wireless Standard	802.11ac/a/b/g/n
Data Transfer Rate	600 Mbps (150Mbps 2.4GHz + 433Mbps 5GHz)
Frequency Band	Dual-Band (2.4GHz & 5GHz)
Antennas	2 x 7dBi Omni-directional

Feature	Specification
Ports	1 x 10/100Mbps WAN/LAN Port
Power Supply	PoE (Power over Ethernet)
Weatherproof Rating	IP65
Operating Temperature	-22°F to 158°F (-30°C to 70°C)
Dimensions	18cm (7.1in) length, 5cm (2in) diameter (main body)
Weight	1.08 pounds

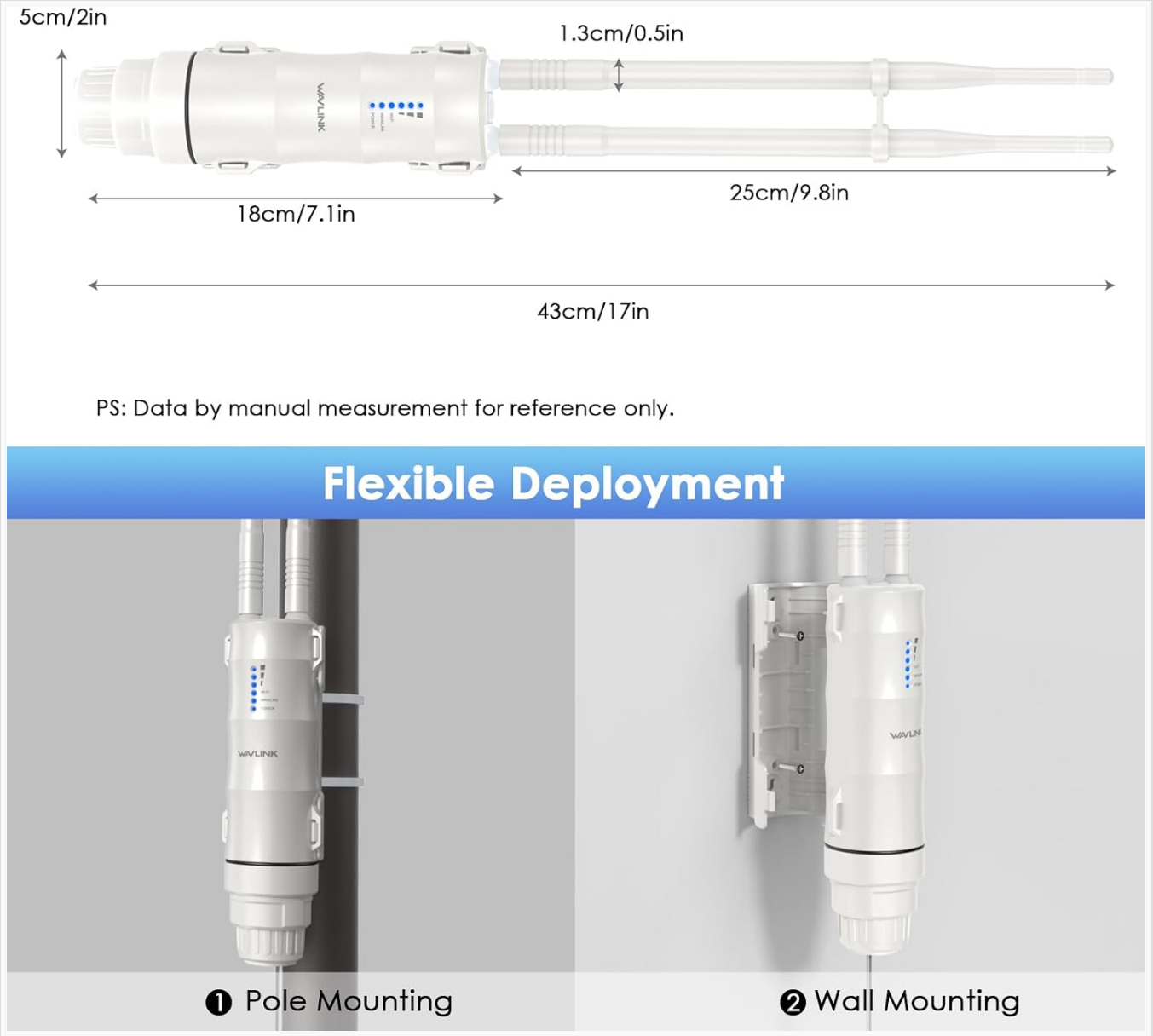

Figure 6.1: Dimensional overview of the WAVLINK AC600 Outdoor WiFi Extender, showing its physical measurements.

7. Maintenance

To ensure optimal performance and longevity of your WAVLINK AC600 Outdoor WiFi Extender, consider the following

maintenance tips:

- **Regular Cleaning:** Periodically wipe down the exterior of the device with a soft, damp cloth to remove dust and debris. Do not use harsh chemicals or abrasive cleaners.
- **Antenna Check:** Ensure antennas are securely fastened and free from obstructions.
- **Cable Inspection:** Routinely check the Ethernet cable for any signs of wear, damage, or corrosion, especially at connection points.
- **Firmware Updates:** Check the WAVLINK official website periodically for firmware updates. Keeping the firmware updated can improve performance, security, and add new features.
- **Environmental Considerations:** While weatherproof, avoid direct, prolonged exposure to extreme conditions beyond its specified operating range if possible. Ensure proper drainage around the mounting area.

8. Troubleshooting

If you encounter issues with your WAVLINK AC600, refer to the following common problems and solutions:

- **No Power:**
  - Ensure the PoE adapter is properly connected to a power outlet and the Ethernet cable is securely connected to both the adapter and the extender.
  - Check the power indicator light on the PoE adapter.
- **Cannot Access Web Management Page (192.168.10.1):**
  - Verify your computer is directly connected to the LAN port of the PoE adapter.
  - Ensure your computer's IP settings are set to obtain an IP address automatically (DHCP).
  - Try clearing your browser's cache or using a different browser.
  - Temporarily disable any firewall or antivirus software on your computer.
  - If the device has been configured previously, its IP address might have changed. Check your main router's DHCP client list for the device's assigned IP.
- **Weak or No Wi-Fi Signal:**
  - Ensure the extender is mounted in an optimal location, free from physical obstructions (e.g., thick walls, metal structures).
  - Adjust antenna orientation for better signal propagation.
  - Check for sources of interference (e.g., cordless phones, microwaves).
  - Verify the operating mode is correctly configured (e.g., Repeater mode if extending an existing network).
- **Slow Internet Speed:**
  - Ensure the Ethernet cable connecting the PoE adapter to your router/network is Cat5e or higher.
  - Check for network congestion or too many devices connected simultaneously.
  - Verify your main internet connection speed.
- **Factory Reset:**
  - If issues persist, you may need to perform a factory reset. With the device powered on, use a paperclip to press and hold the Reset button (located near the WAN/LAN port) for approximately 8 seconds until the LED indicators flash. The device will reboot with default settings.



Figure 8.1: Close-up view of the 100Mbps WAN/LAN port and the recessed Reset button on the WAVLINK AC600.

9. Warranty and Support

WAVLINK products typically come with a standard manufacturer's warranty. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official WAVLINK website. For technical support, troubleshooting assistance, or to download the latest drivers and firmware, please visit the WAVLINK support page or contact their customer service.

WAVLINK Official Website: www.wavlink.com

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