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WAVLINK WN570HA2

WAVLINK AC1200 Outdoor WiFi Extender/Access Point (Model WN570HA2) User Manual

Your guide to setting up and operating your WAVLINK AC1200 Outdoor Wireless Device.

1. Introduction

The WAVLINK AC1200 Outdoor WiFi Extender/Wireless Access Point (Model WN570HA2) is designed to provide reliable and extended Wi-Fi coverage in outdoor environments. Featuring dual-band technology (2.4G and 5G) and an IP67-rated weatherproof enclosure, this device supports various operating modes including Router, AP, and Repeater, making it versatile for different networking needs. It also incorporates Power over Ethernet (PoE) for flexible installation.



Figure 1: WAVLINK AC1200 Outdoor Wireless AP/Repeater overview with key features.

2. What's in the Box

Please check the package contents to ensure all items are present:

- 1x AC1200 Dual Band Access Point
- 2x 7dBi High-gain Antennas
- 1x RJ-45 Ethernet Cable
- 1x PoE Converter
- 1x Power Adapter



Figure 2: Package contents of the WAVLINK AC1200 Outdoor WiFi Extender.

3. Product Features

3.1 AC1200 Dual-Band Connectivity

The device supports Wi-Fi 5 (802.11ac) technology, offering combined speeds of up to 1200Mbps (300Mbps on 2.4GHz and 867Mbps on 5GHz). This dual-band capability ensures stable and high-speed connections for various applications.

3.2 IP67 Rated Weatherproof Enclosure

Designed for outdoor use, the WN570HA2 features an IP67-rated enclosure, providing protection against dust and water ingress. It operates reliably in temperatures ranging from -10°C to 50°C (-14°F to 122°F) and includes 15KV ESD and

6KV lightning protection.



Figure 3: Weatherproof design for outdoor reliability.

3.3 Power Over Ethernet (PoE)

Integrated PoE functionality allows both power and data to be transmitted over a single RJ-45 Ethernet cable. This simplifies installation, especially in locations without readily available power outlets. The device supports both passive and active PoE.



Figure 4: Power over Ethernet (PoE) connection diagram.

3.4 Expansive Coverage and Capacity

The outdoor access point offers a maximum coverage range of 200 meters and can support up to 32 connected devices, making it suitable for large outdoor areas.



Figure 5: Coverage and device capacity.



Figure 6: Suitable for various outdoor scenarios.

4. Setup and Installation

4.1 Connecting the Antennas and Ethernet Cable

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. Spin the 2.4G/5G antennas onto the corresponding 2.4G/5G external RP-SMA connectors.
6. Screw up the holder.
7. Plug the rubber seal into the holder.

8. Secure the spiral cover by screwing it on.



Figure 7: Antenna and Ethernet cable connection steps.

4.2 Mounting the Device

1. Fasten the main body holder to a pole or suitable mounting surface.
2. Plug the device into the holder.
3. After connecting to PoE, you can turn on the power and use it.

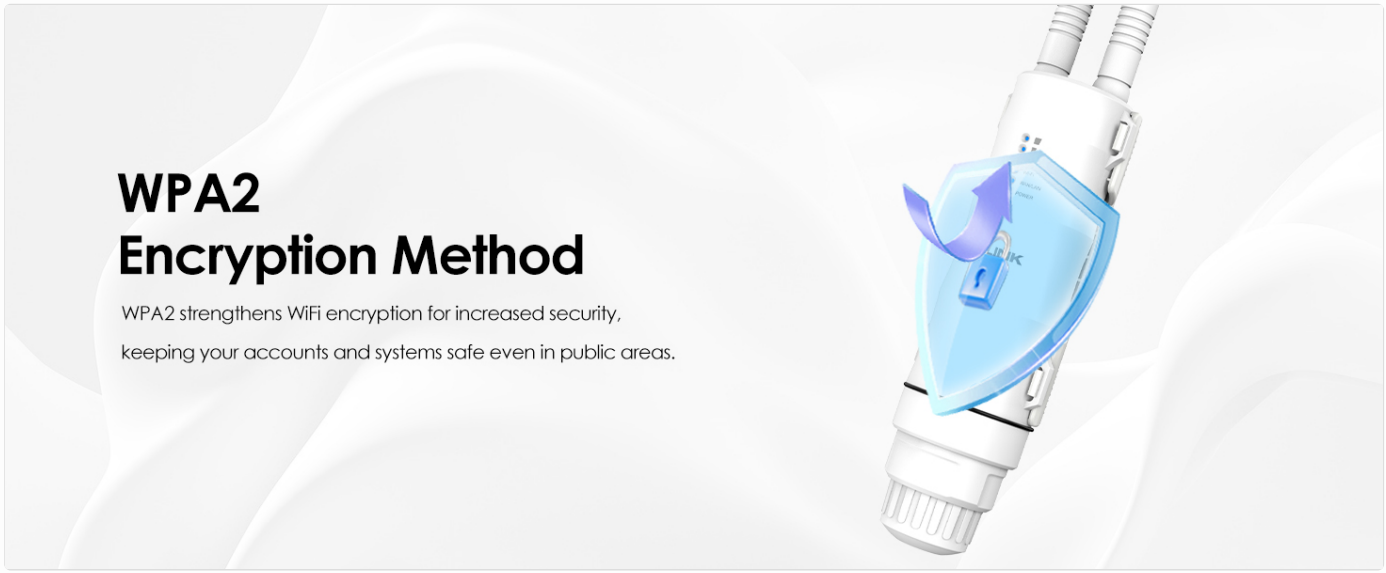

Figure 8: Device mounting instructions.

4.3 Default Parameters

For initial setup, refer to the default parameters:

- **5G SSID:** WAVLINK-AC XXXX
- **2.4G SSID:** WAVLINK-N XXXX
- **Default IP:** 192.168.10.1
- **Password:** admin

It is recommended to change the default password after initial setup for security reasons.

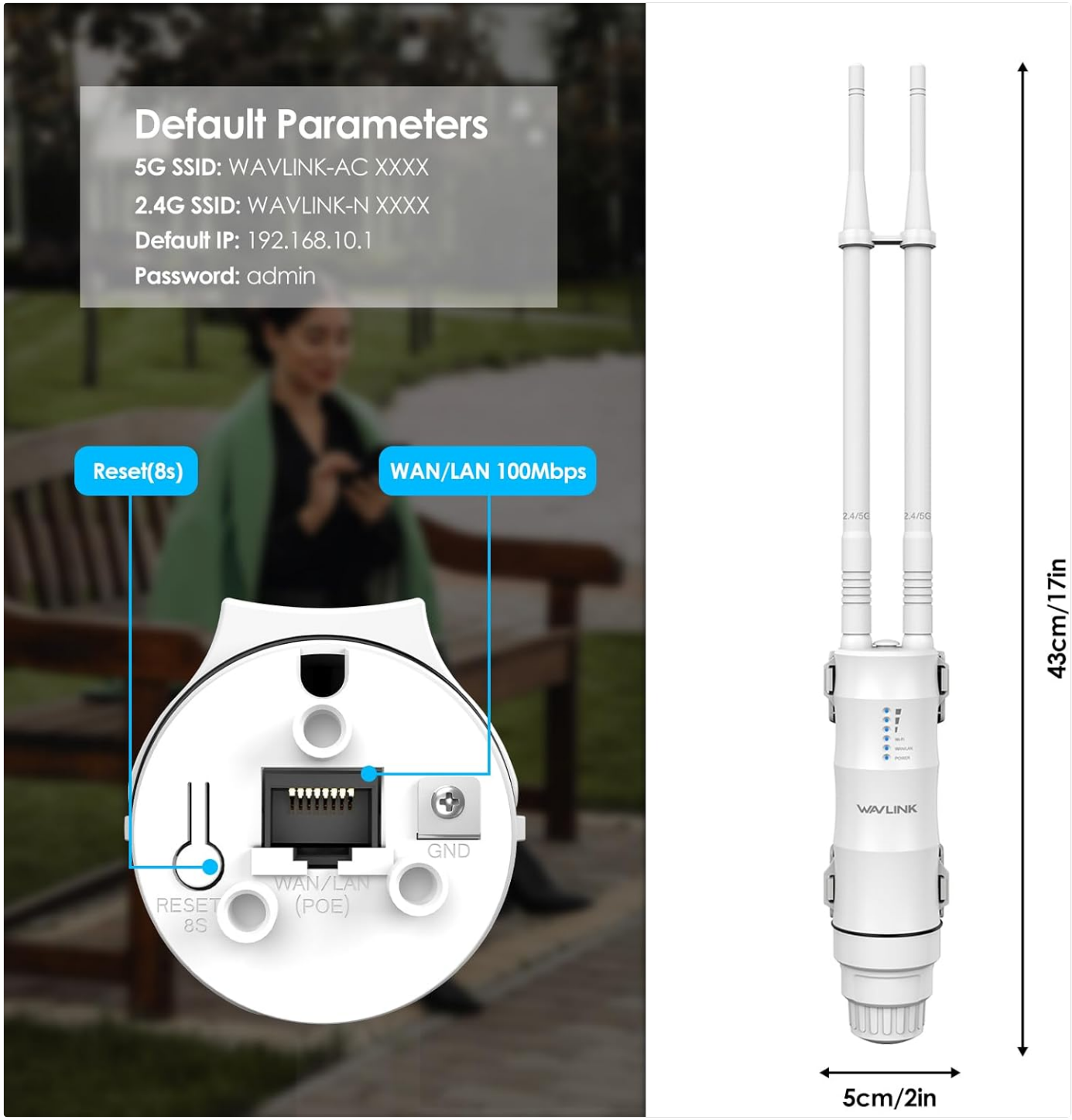

Figure 9: Default parameters and device ports.

5. Operating Modes

The WAVLINK AC1200 supports multiple operating modes to suit various networking requirements:

- **Router Mode:** Creates a private wireless network, allowing multiple devices to share an internet connection from a modem.
- **AP (Access Point) Mode:** Converts a wired network connection into a wireless one, ideal for adding Wi-Fi capability to an existing wired network.
- **Repeater Mode:** Extends the coverage of an existing wireless network by amplifying and relaying the signal.

- **AP+Repeater Mode:** Combines the functions of an Access Point and a Repeater to extend the range from an existing AP.

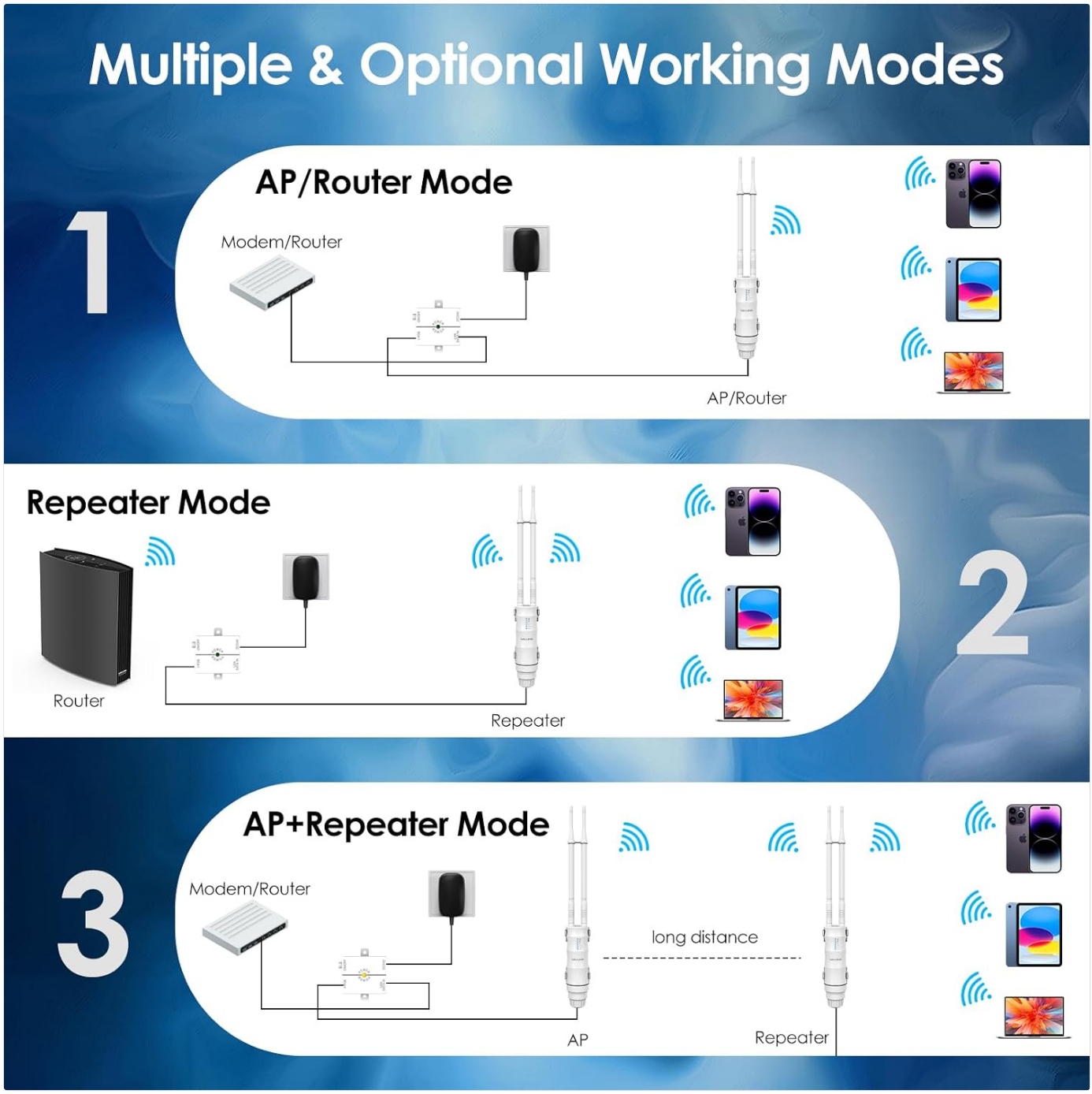

Figure 10: Multiple and optional working modes.



Figure 11: Detailed diagrams of Repeater, Router, and AP modes.

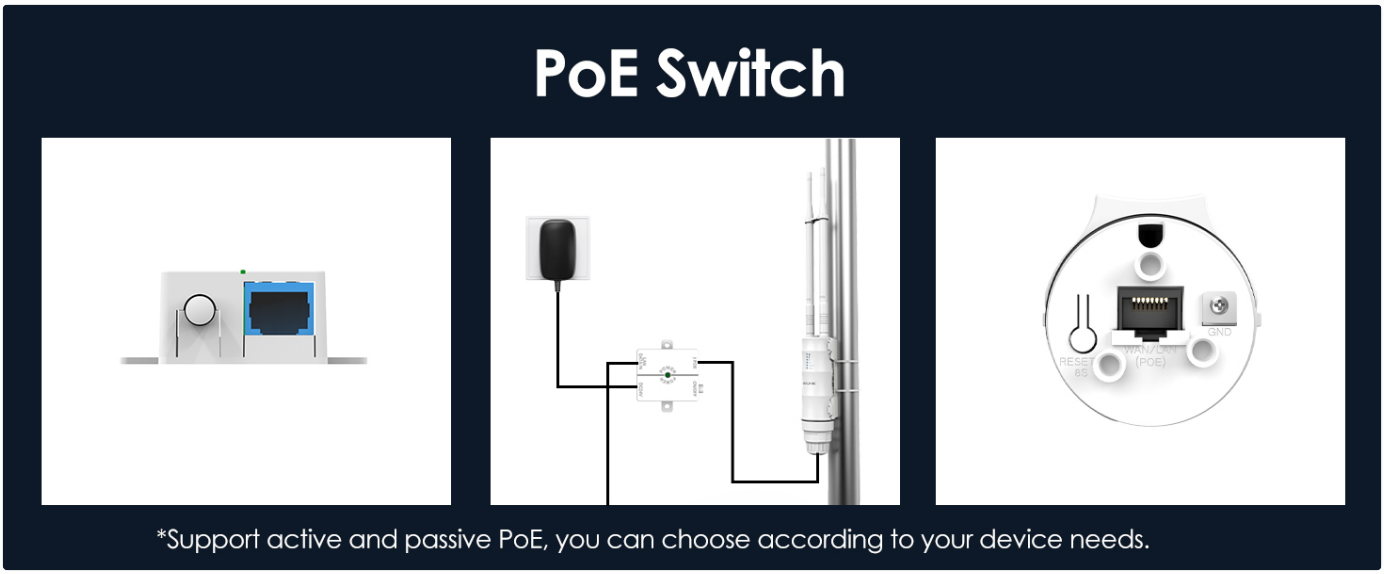

Figure 12: AP+Repeater mode configuration.

6. Maintenance

To ensure optimal performance and longevity of your WAVLINK AC1200 Outdoor WiFi Extender, consider the following maintenance tips:

- **Regular Firmware Updates:** Check the WAVLINK official website periodically for firmware updates. Updates can improve performance, add features, and enhance security.
- **Physical Inspection:** Periodically inspect the device and its cables for any signs of damage, especially after severe weather conditions. Ensure all connections are secure.
- **Cleaning:** Gently wipe the exterior of the device with a soft, dry cloth to remove dust or dirt. Do not use liquid cleaners or abrasive materials.
- **Proper Mounting:** Ensure the device remains securely mounted to prevent damage from wind or physical impact.

7. Troubleshooting

If you encounter issues with your WAVLINK AC1200, try the following troubleshooting steps:

- **No Power:** Ensure the PoE converter and power adapter are correctly connected and plugged into a working power outlet. Check the power indicator light on the device.
- **No Internet Connection:** Verify that the Ethernet cable from your modem/router to the PoE converter is securely connected. Check your main internet connection.
- **Weak Wi-Fi Signal:** Ensure the device is mounted in an optimal location, free from obstructions. Adjust antenna orientation if possible. Consider the coverage range limitations.
- **Cannot Access Setup Page:** Confirm your device is connected to the WAVLINK Wi-Fi network (either 2.4G or 5G SSID). Ensure your computer's IP settings are set to obtain an IP address automatically. Try accessing the default IP (192.168.10.1) in your browser.
- **Forgotten Password:** If you forget your Wi-Fi or login password, you can perform a factory reset by pressing and holding the Reset button for 8 seconds (refer to Figure 9). Note that a factory reset will erase all custom settings.
- **Intermittent Connection:** Check for interference from other wireless devices or electrical equipment. Ensure the device's firmware is up to date.

8. Specifications

Feature	Detail
Brand	WAVLINK
Model Number	WN570HA2
Wireless Communication Standard	802.11a/b/g/n/ac
Data Transfer Rate	1200 megabits per second
Frequency Band Class	Dual-Band (2.4 GHz, 5 GHz)
Special Features	Weatherproof (IP67), PoE (Active/Passive), 15KV ESD, 6KV Lightning Protection
Compatible Devices	Wi-Fi enabled devices (routers, smartphones, tablets, laptops, computers, smart TVs, gaming consoles, etc.)
Range	Up to 200 meters
Connector Type	RJ45
Antennas	2x 7dBi High-gain Omni-directional Antennas
Operating Temperature	-10°C to 50°C (-14°F to 122°F)

9. Warranty and Support

9.1 Warranty Information

All WAVLINK products come with an 18-month warranty from the date of purchase. Please retain your proof of purchase for warranty claims.

9.2 Customer Support

For any questions or technical assistance, please contact WAVLINK customer support:

- **Phone Support:** +18889730883 (UTC-5) Monday - Friday, 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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