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› WAVLINK AC1200 Outdoor Wireless Extender Instruction Manual

WAVLINK WL-WN572HG3



WAVLINK AC1200 Outdoor Wireless Extender

PRODUCT INSTRUCTION MANUAL

Introduction

The WAVLINK AC1200 Outdoor Wireless High Power Weatherproof WiFi Long Range Extender/Access Point/Router is designed to provide robust and extended Wi-Fi coverage in outdoor environments. Featuring dual-band 2.4G and 5G capabilities, passive PoE support, and Gigabit Ethernet ports, this device is ideal for eliminating Wi-Fi dead zones and ensuring stable connectivity for multiple devices in large outdoor areas.

Its weatherproof and heat-resistant design ensures reliable operation in harsh conditions, making it suitable for various outdoor applications such as homes with large yards, parks, or commercial spaces.

What's in the Box

The package includes all necessary components for installation and operation:

- AC 1200 Dual Band Outdoor AP/Range Extender (Main Unit)
- 2x 2.4G Omni Antennas
- 2x 5G Omni Antennas
- 1x RJ45 Networking Cable
- 1x Power Adapter
- 1x PoE Converter
- 1x Main Body Holder
- 2x Cable Ties
- 1x Screw Fitting Kit
- 1x Quick Start Guide



Figure 1: All components included in the WAVLINK AC1200 product box.

Product Features

- **AC1200 Dual-Band & Upgraded Chip Technology:** Supports speeds up to 867Mbps on 5GHz and 300Mbps on 2.4GHz, powered by an MT7621A chip for simultaneous device connections.
- **Multiple Operation Modes:** Functions as a Router, Access Point (AP), or Repeater.
- **Power Over Ethernet (PoE):** Integrated PoE allows power and data transmission over a single RJ-45 cable, simplifying outdoor installation.

- **Dual Gigabit Ethernet Ports:** Supports 10/100/1000Mbps speeds for high-speed wired connections.
- **4 x 7dBi Detachable Omni-Directional Antennas:** High-gain antennas strengthen Wi-Fi signal and expand coverage, ideal for long-range outdoor use.
- **Harsh Outdoor Environment Design:** IP65-rated weatherproof and heat-resistant casing, 15KV ESD, and 4KV lightning protection ensure stable operation in extreme conditions (-30°C to 70°C).





Figure 2: The WAVLINK AC1200 Outdoor Extender, showcasing its four detachable antennas and robust design.

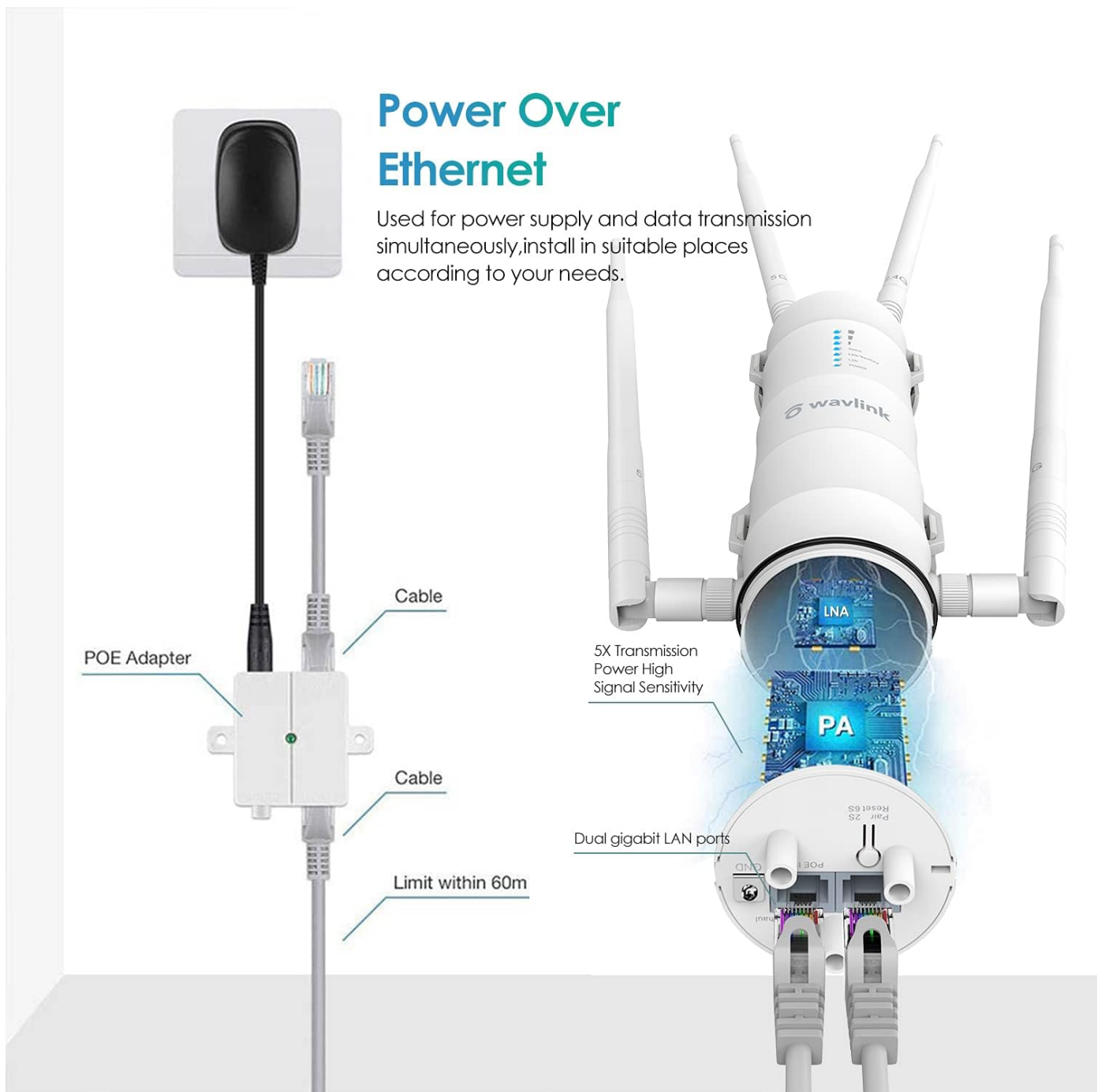
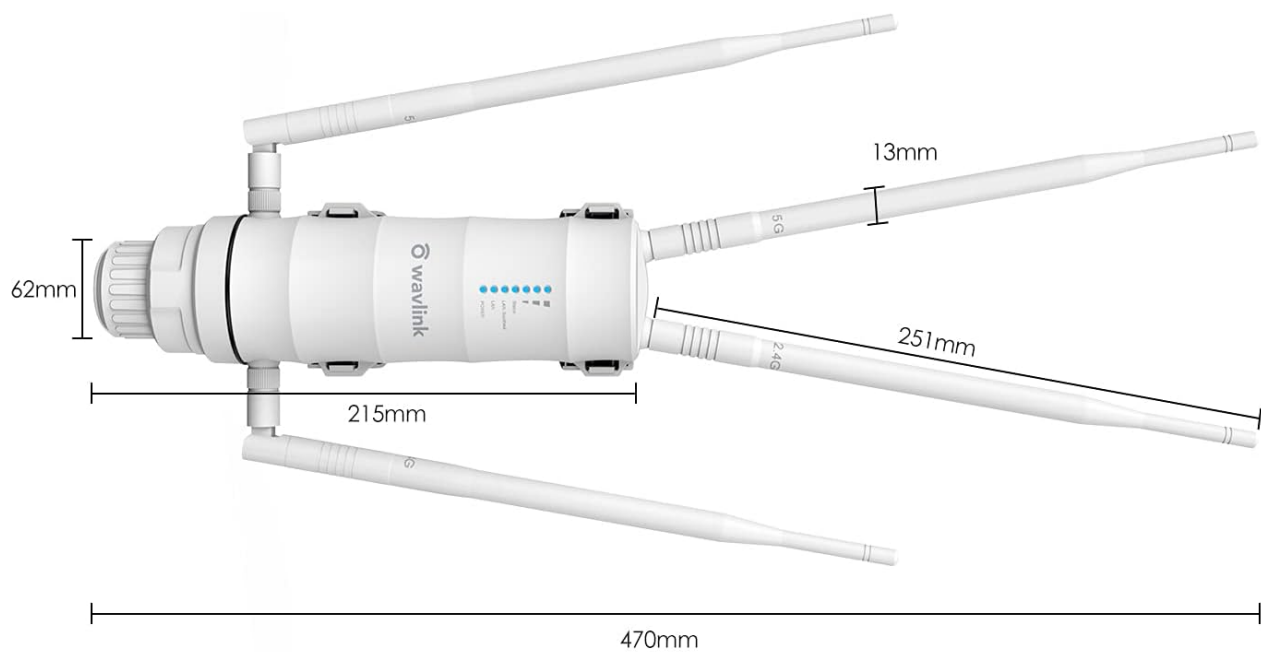


Figure 3: Power Over Ethernet (PoE) setup, illustrating how power and data are supplied through a single Ethernet cable to the device.



PS: Data by Manual measurement for reference only

Flexible Installation



Figure 4: Dimensions of the WAVLINK AC1200 unit, providing measurements for planning installation.

Professional Outdoor Design

Weatherproof enclosure and lightning protection ensure safety and stable connection in harsh outdoor conditions



Sun



Rain



Snow



Thunder



Wind



Frost



Figure 5: The device's professional outdoor design, highlighting its resilience against sun, rain, snow, thunder, wind, and frost.

Setup and Installation

Follow these steps for proper installation and initial configuration of your WAVLINK AC1200 extender:

1. **Antenna Installation:** Screw the 5G antennas into the 5G external RP-SMA connectors and the 2.4G antennas into the 2.4G external RP-SMA connectors on the main unit.
2. **Cable Routing:** Pass the RJ45 cable through the spiral cover, then through the rubber seal, and finally through the main body holder.
3. **Connect Ethernet:** Connect the RJ45 cable to the POE (IN/WAN) port of the device.
4. **Mounting:** Secure the main body holder to a pole or wall using the provided screw fitting kit. Ensure the device is positioned for optimal signal coverage.
5. **PoE Connection:** Connect the other end of the RJ45 cable from the device to the POE port of the PoE converter.
6. **Router Connection:** Connect a separate Ethernet cable from the LAN DATA IN port of the PoE converter to a LAN port on your main router.

7. **Power On:** Plug the power adapter into the PoE converter and then into a power outlet. The device will power on.

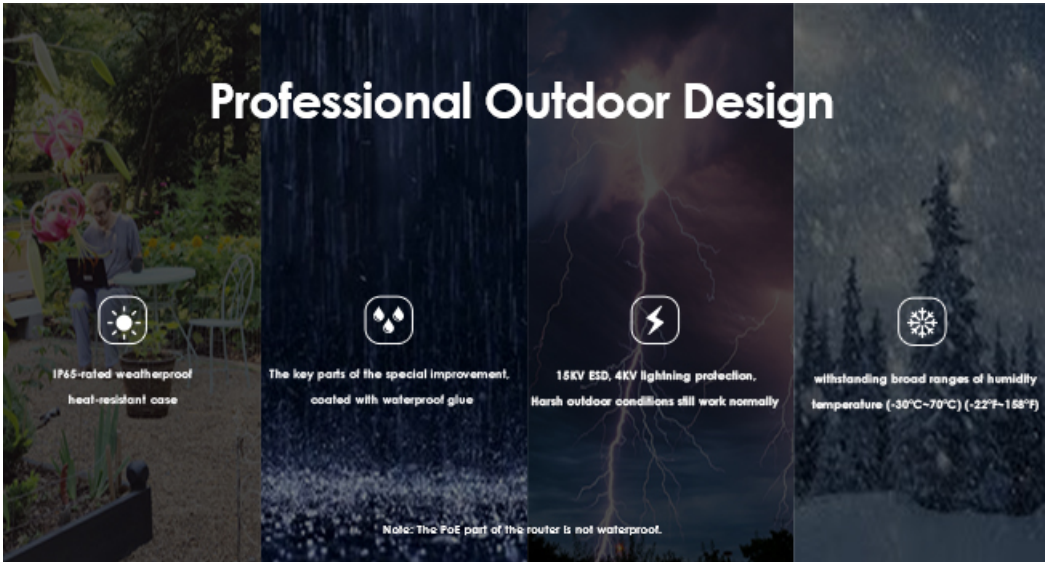


Figure 6: Flexible installation options, including pole mounting and wall mounting, ensuring secure placement.

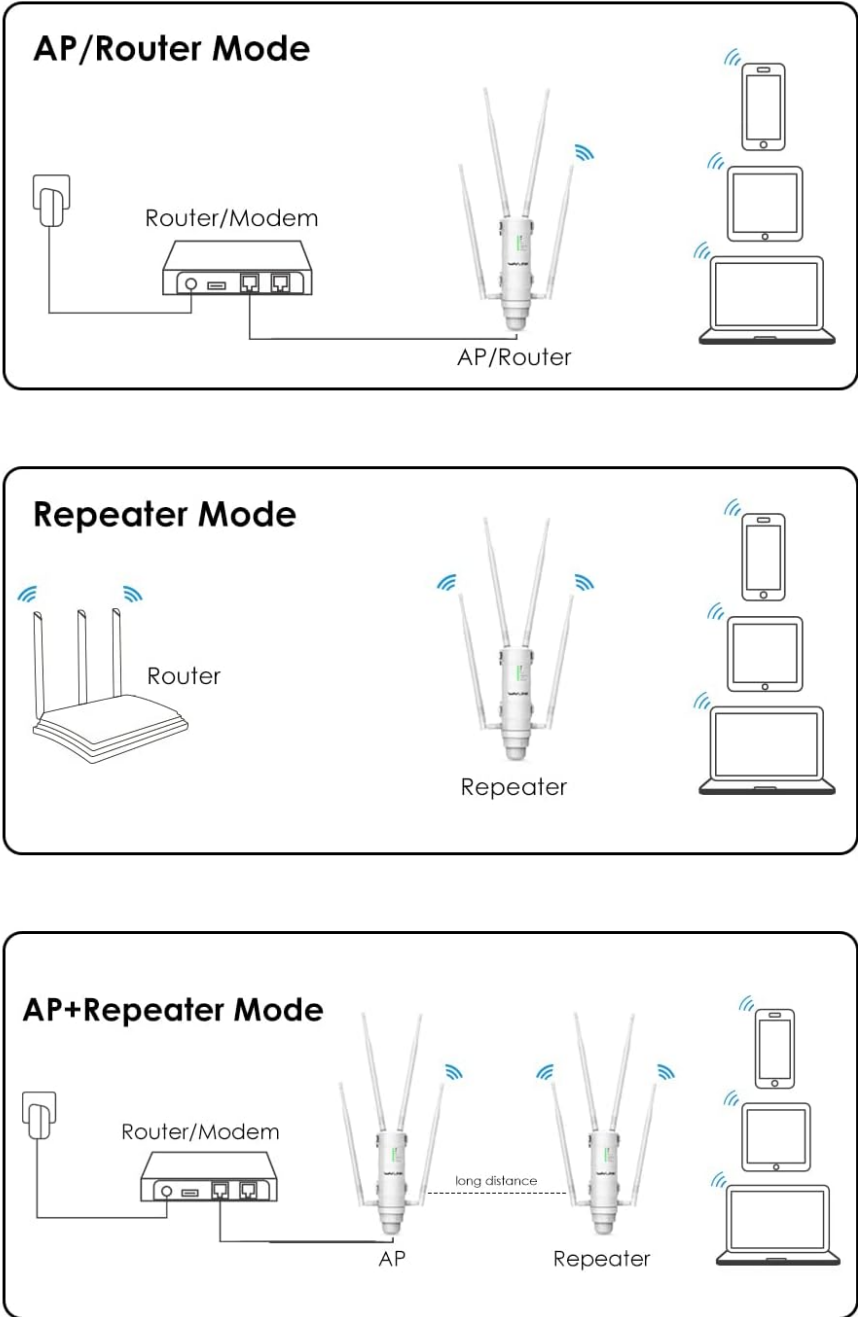


Figure 7: Illustration of the different operating modes: AP/Router Mode, Repeater Mode, and AP+Repeater Mode.

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Video 1: Detailed unboxing and initial setup of the WAVLINK AC1200 Outdoor WiFi Extender/Repeater, demonstrating component assembly and basic connections.

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Video 2: Installation guide for the WAVLINK High Power Long Range Outdoor Wireless Access Point, showing mounting and cable management.

Operating Modes

The WAVLINK AC1200 supports three primary operating modes to suit various networking needs:

- **Router Mode:** The device acts as a primary router, connecting directly to your modem and distributing Wi-Fi to your devices.
- **Access Point (AP) Mode:** The device connects to an existing wired network and broadcasts a new Wi-Fi signal, extending coverage without acting as a router.
- **Repeater Mode:** The device extends the range of an existing Wi-Fi network by receiving the signal and re-broadcasting it, ideal for covering dead zones.

Maintenance

To ensure optimal performance and longevity of your WAVLINK AC1200 Outdoor Extender:

- **Regular Cleaning:** Periodically clean the exterior of the device to remove dust and debris. Use a soft, dry cloth. Do not use liquid cleaners.
- **Firmware Updates:** Check the WAVLINK official website regularly for firmware updates. Keeping the firmware updated ensures the latest features, security patches, and performance improvements.
- **Connection Check:** Periodically inspect all cable connections (Ethernet, PoE) to ensure they are secure and free from damage.
- **Environmental Protection:** While designed for outdoor use, avoid placing the device in locations prone to direct, prolonged exposure to extreme conditions beyond its specified operating range.

Troubleshooting

If you encounter issues with your WAVLINK AC1200, consider the following:

- **No Power/Lights Off:**
 - Ensure the power adapter is securely connected to the PoE converter and a working power outlet.
 - Verify the Ethernet cable from the PoE converter to the device is properly connected.
- **No Internet Access:**
 - Check the internet connection of your main router.
 - Ensure the Ethernet cable from the PoE converter to your main router is connected to a LAN port.
 - If in Repeater mode, ensure the extender is successfully connected to your main Wi-Fi network and receiving a strong signal.
- **Weak Signal/Poor Performance:**
 - Adjust the position and orientation of the antennas.
 - Relocate the extender to a more central position within the desired coverage area, ensuring minimal

obstructions.

- Check for sources of interference (e.g., other electronic devices, thick walls).

- **Login/Configuration Issues:**

- Ensure you are using the correct IP address (e.g., 192.168.10.1 or ap.setup) to access the web interface.
- If you cannot log in, try resetting the device to factory defaults (refer to the Quick Start Guide for reset instructions).

Specifications

Feature	Specification
Product Dimensions	2.44 x 2.44 x 18.5 inches
Item Weight	1.43 pounds
Wireless Communication Standard	802.11a/b/g/n/ac
Data Transfer Rate	1200 Megabits Per Second
Frequency Band Class	Dual-Band (2.4GHz + 5GHz)
Special Features	Upgraded Chip Technology, Multiple Operation Modes, Power Over Ethernet, High Amplifiers, Harsh Outdoor Environment Design, Strengthening Waterproof Version

Warranty and Support

All WAVLINK products come with a 12-month worry-free warranty and life-long technical support. For any questions or assistance, please feel free to contact WAVLINK customer service.

- **Phone Support:** +1 8889730883 (UTC-5) Mon - Fri 9AM - 6PM
- **Email Support:** Contact@wavlink.com

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Email

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

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