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WAVLINK RYUS-WN572HP3

WAVLINK AC1200 Outdoor WiFi Range Extender User Manual

Model: RYUS-WN572HP3

1. Introduction

This manual provides detailed instructions for the installation, configuration, and operation of your WAVLINK AC1200 Outdoor WiFi Range Extender. This device is designed to extend your existing WiFi network coverage outdoors, providing reliable and high-speed internet access in areas such as yards, gardens, garages, and farms. It complies with 802.11ac standards, offering dual-band connectivity at 2.4GHz (300Mbps) and 5GHz (867Mbps) for a combined speed of up to 1200Mbps.

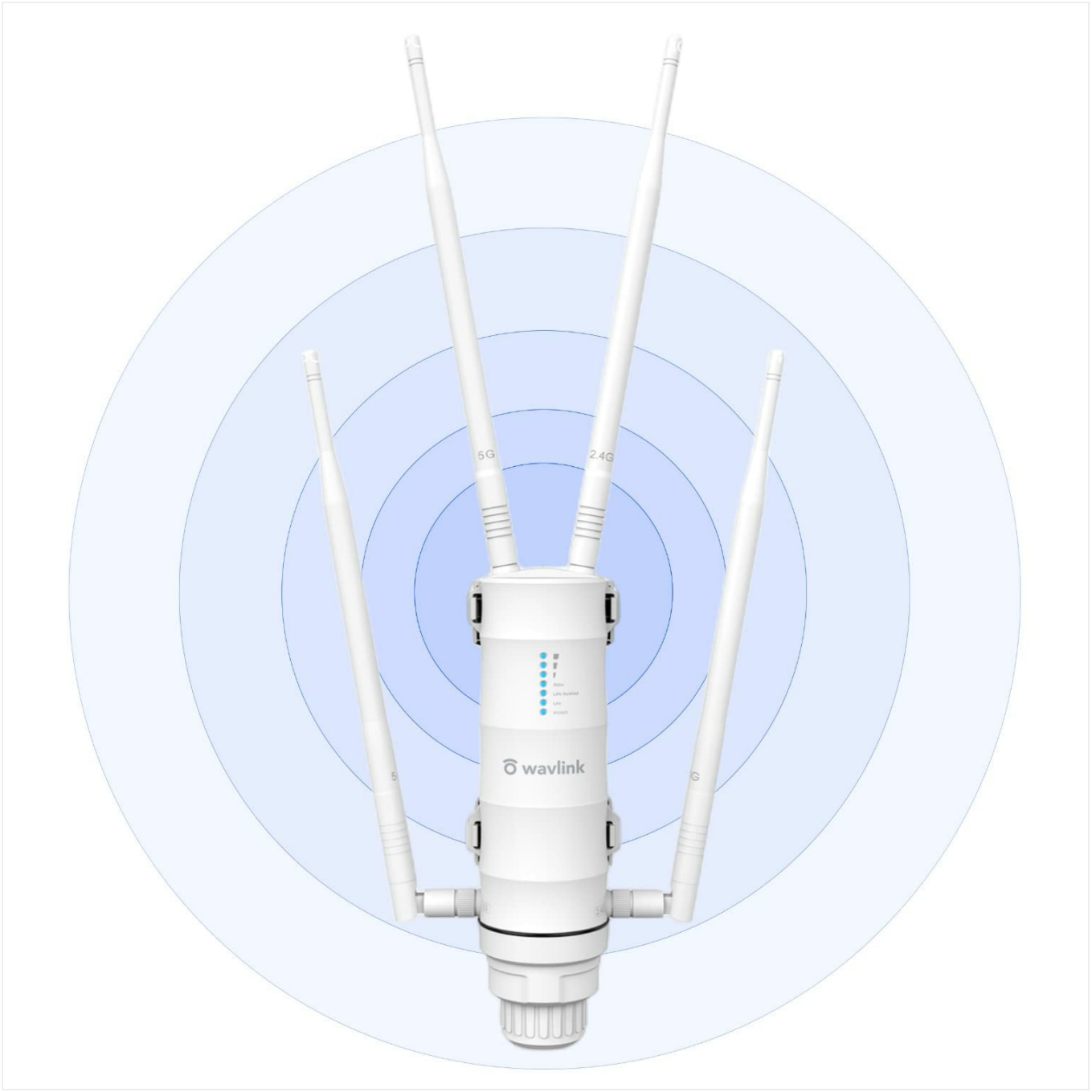


Figure 1: WAVLINK AC1200 Outdoor WiFi Range Extender. This image shows the main unit with its four detachable antennas, illustrating the omni-directional signal coverage.

2. Safety Information

Please read all safety instructions carefully before using this device. Failure to follow these instructions may result in injury or damage to the device.

- Ensure the device is installed in a location that complies with local electrical codes and regulations.
- Use only the provided Power over Ethernet (PoE) adapter and power supply.
- Do not open the device casing. Refer all servicing to qualified personnel.
- Avoid exposing the device to extreme temperatures outside its operating range (-22°F to 158°F) or direct lightning strikes without proper protection. The device includes 15KV ESD and 4KV lightning protection, but additional external protection may be required in high-risk areas.
- Ensure all cable connections are secure and waterproof, especially for outdoor installations.

3. Package Contents

Verify that all items are present in your package:

- WAVLINK WiFi Extender Outdoor Long Range Unit
- PoE Power Adapter
- Detachable Omni-Directional Antennas (4x)
- RJ-45 Ethernet Cable (1 meter)
- Mounting Kit (Pole Straps, Wall Plugs, Screws)
- Quick Start Guide



Figure 2: Package Contents. This image displays all components included in the box: the main extender unit, four antennas, PoE adapter, Ethernet cable, mounting hardware, and documentation.

4. Product Features

- **AC1200 Dual Band:** Supports 802.11ac standards, delivering up to 867Mbps on 5GHz and 300Mbps on 2.4GHz.
- **Outdoor Waterproof Design (IP65):** Ensures continuous function in harsh outdoor environments, withstanding temperatures from -22°F to 158°F. Features 15KV ESD and 4KV lightning protection.
- **Long Range & Detachable Antennas:** Four high-power 7dBi omni-directional antennas enhance WiFi signal, providing outdoor coverage up to a 200-meter radius.
- **Dual Gigabit Ethernet Ports:** Two LAN/WAN ports support 1000Mbps speeds for high-speed wired connections.
- **Safe PoE Powered:** Power over Ethernet (PoE) unit combines power supply and Ethernet data, allowing flexible installation where power outlets are not readily available.
- **Multiple Working Modes:** Supports Mesh Extender Mode, Access Point (AP) Mode, and Repeater Mode.



Figure 3: Weatherproof Design. This image highlights the device's robust, waterproof, and heat-resistant casing, suitable for various outdoor conditions including rain, snow, sun, wind, and dust.



Figure 4: AC1200 Dual Band Performance. This diagram illustrates the 2.4GHz (300Mbps) and 5GHz (867Mbps) bands, indicating high-speed data transfer capabilities.

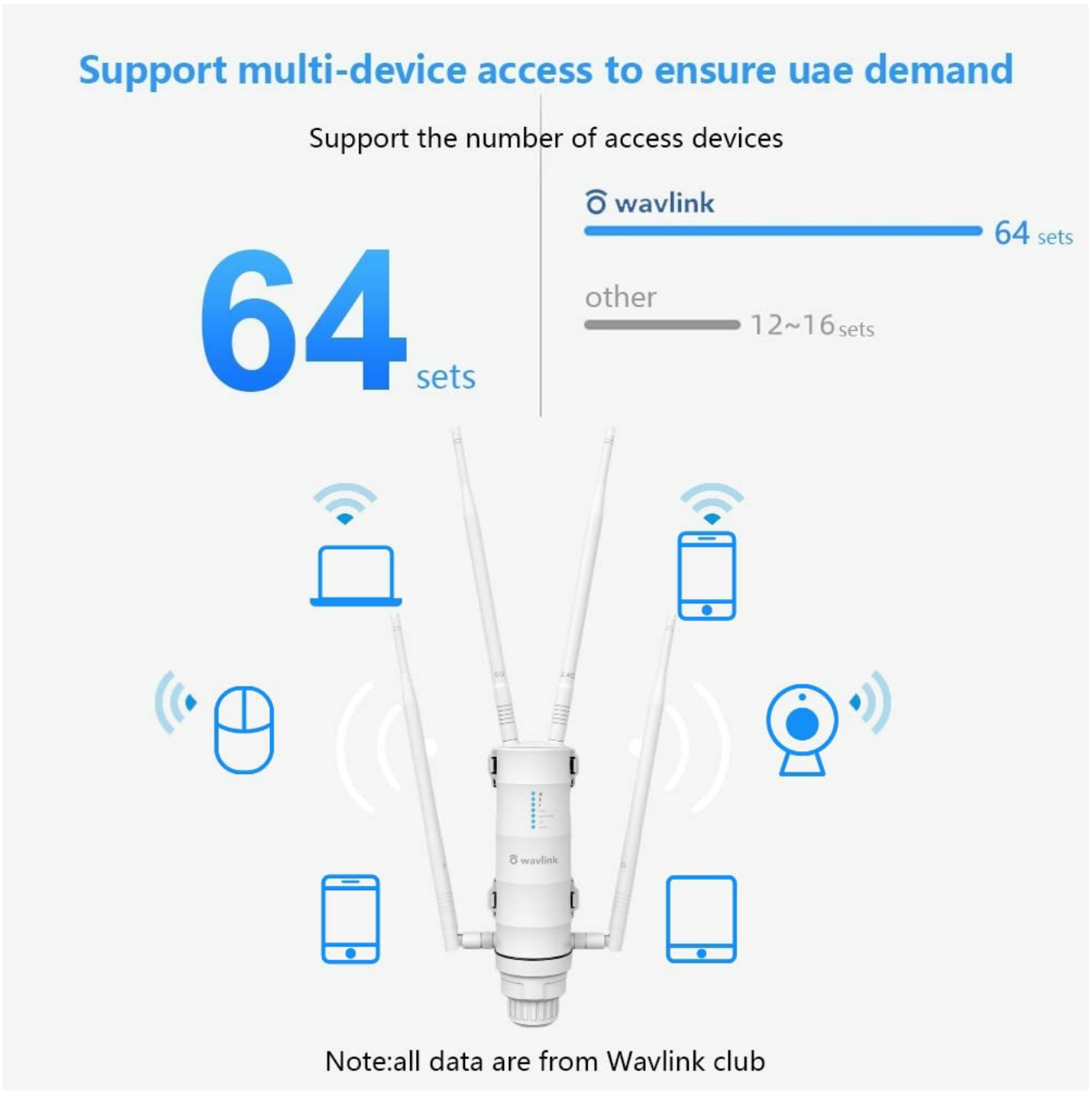


Figure 5: Multi-Device Support. This image shows the extender connecting to various devices like laptops, smartphones, and cameras, indicating support for up to 64 simultaneous connections.

5. Setup and Installation

5.1 Physical Installation

The WAVLINK AC1200 Outdoor WiFi Range Extender offers flexible mounting options:

- **Pole Mounting:** Use the provided straps to secure the device to a pole.
- **Wall Mounting:** Use the provided screws and wall plugs to mount the device directly to a wall.

Ensure the device is mounted securely and the antennas are properly attached and oriented for optimal signal coverage.

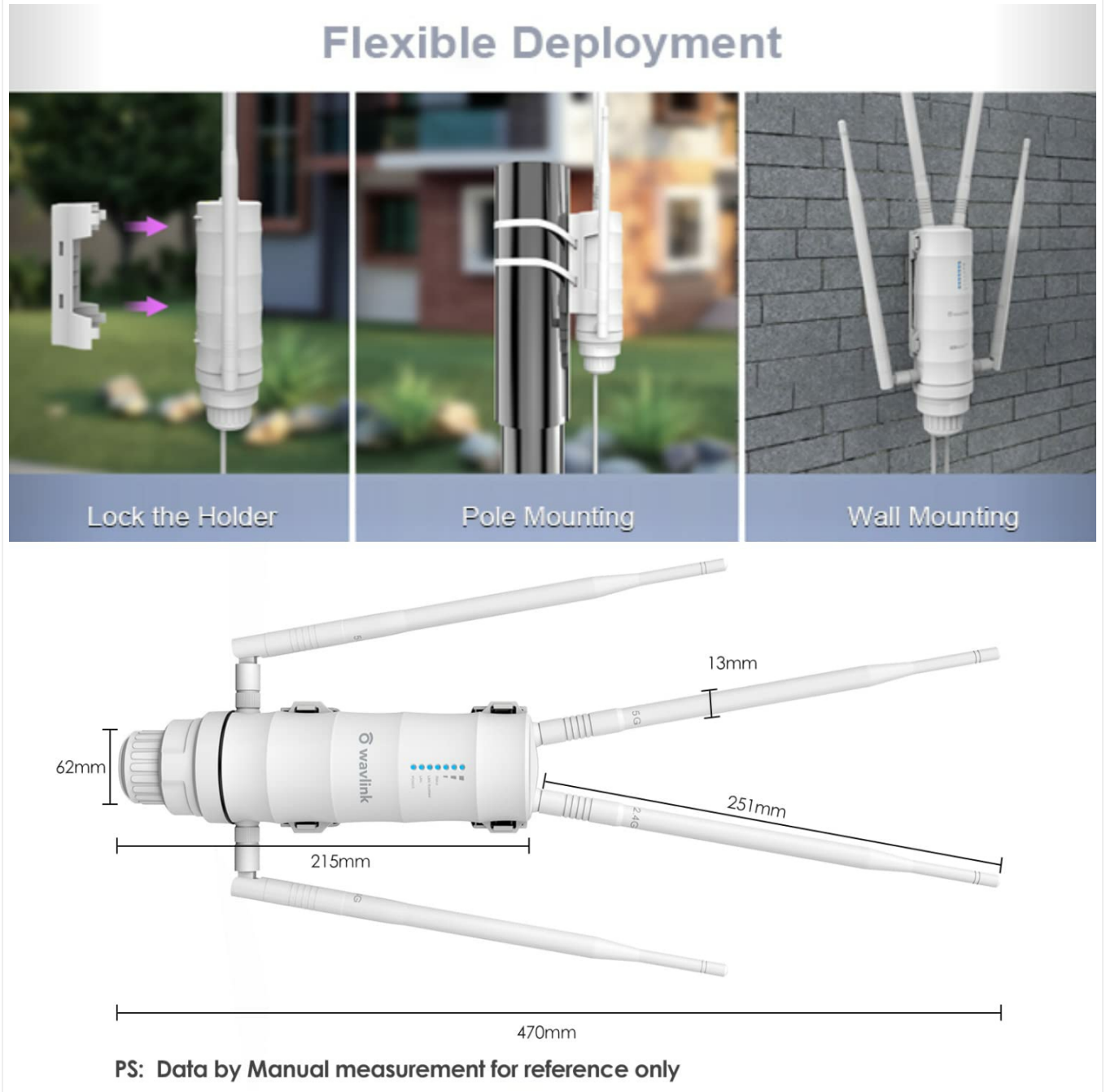


Figure 6: Flexible Deployment. This image illustrates three mounting methods: locking the holder, pole mounting, and wall mounting, along with the physical dimensions of the device.

5.2 Power over Ethernet (PoE) Connection

The device is powered via Power over Ethernet (PoE), simplifying installation by delivering both power and data through a single Ethernet cable.

1. Connect one end of the Ethernet cable to the LAN/WAN port on the extender.
2. Connect the other end of the Ethernet cable to the "PoE" port on the provided PoE adapter.
3. Connect an Ethernet cable from your router or network switch to the "LAN DATA IN" port on the PoE adapter.
4. Plug the power supply into the PoE adapter and then into a power outlet.

Note: A 1-meter RJ-45 cable is provided. You can use a longer cable (up to 60 meters) if needed. Always use the provided PoE unit to ensure proper function and prevent damage.

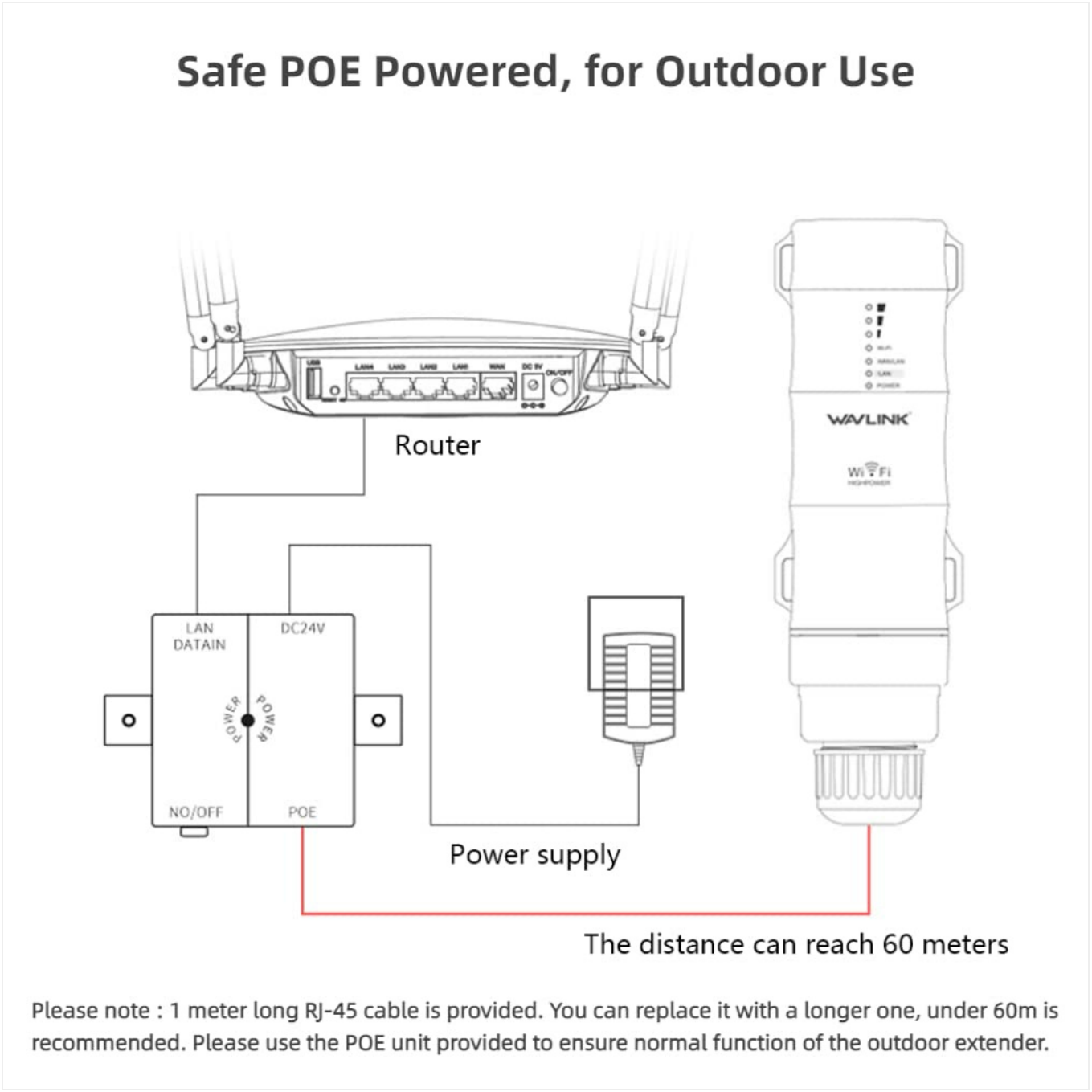


Figure 7: Safe PoE Powered Setup. This diagram shows how to connect the extender to a router using the PoE adapter and power supply, indicating that the Ethernet cable can extend up to 60 meters.

6. Operating Modes

The WAVLINK AC1200 Outdoor WiFi Range Extender supports several operating modes to meet various networking needs:

6.1 Mesh Extender Mode

In Mesh Extender Mode, the device works as part of a mesh network, extending seamless WiFi coverage without creating separate network names.

6.2 Access Point (AP) Mode

In AP Mode, the device connects to a wired network (e.g., from a router) and broadcasts a new wireless network, allowing wireless devices to connect to the wired network.

6.3 Repeater Mode

In Repeater Mode, the device wirelessly connects to an existing WiFi network and re-broadcasts it, extending the range of the original network. This mode is ideal for extending coverage to dead zones.

6.4 AP + Repeater Mode

This mode combines the functionalities of both AP and Repeater modes, providing extended wireless coverage while also allowing wired devices to connect to the network.
Note: This device does not support router mode and cannot be used as a primary router.

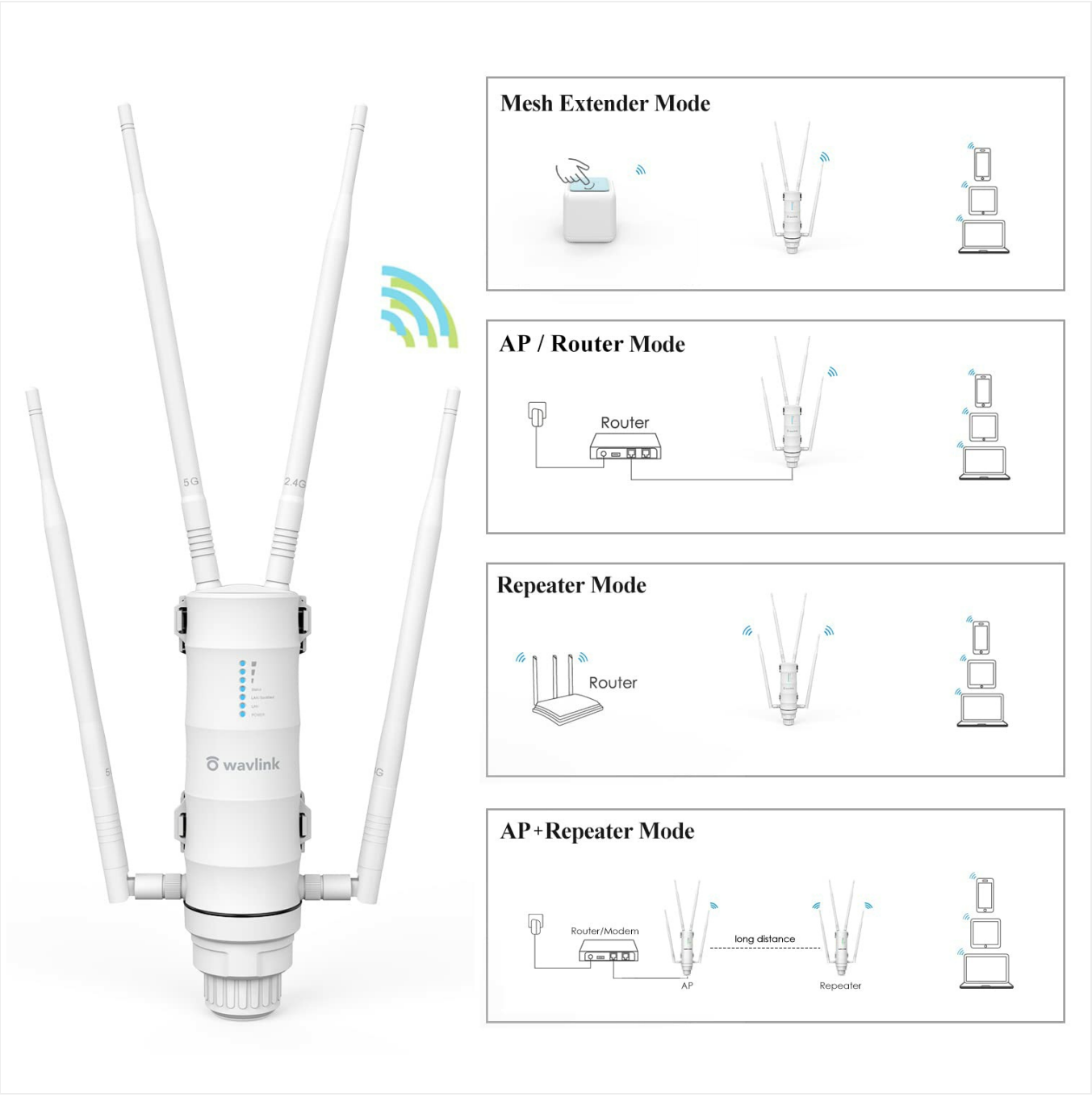


Figure 8: Operating Modes. This diagram visually explains Mesh Extender Mode, AP/Router Mode (referring to AP mode in this context), Repeater Mode, and AP+Repeater Mode, showing how the device integrates into different network setups.

7. Specifications

Feature	Description
Model	RYUS-WN572HP3

Feature	Description
Wireless Standards	IEEE 802.11a/b/g/n/ac
Data Transfer Rate	1200Mbps (5GHz: 867Mbps, 2.4GHz: 300Mbps)
Frequency Band	Dual-Band (2.4GHz & 5GHz)
Antennas	4 x 7dBi Detachable Omni-Directional Antennas
Ethernet Ports	2 x Gigabit LAN/WAN Ports
Power Supply	PoE (Power over Ethernet)
Waterproof Rating	IP65
Operating Temperature	-22°F to 158°F (-30°C to 70°C)
Protection	15KV ESD, 4KV Lightning Protection
Dimensions	36.3 x 12.4 x 7.39 cm (Package)
Item Weight	739 g

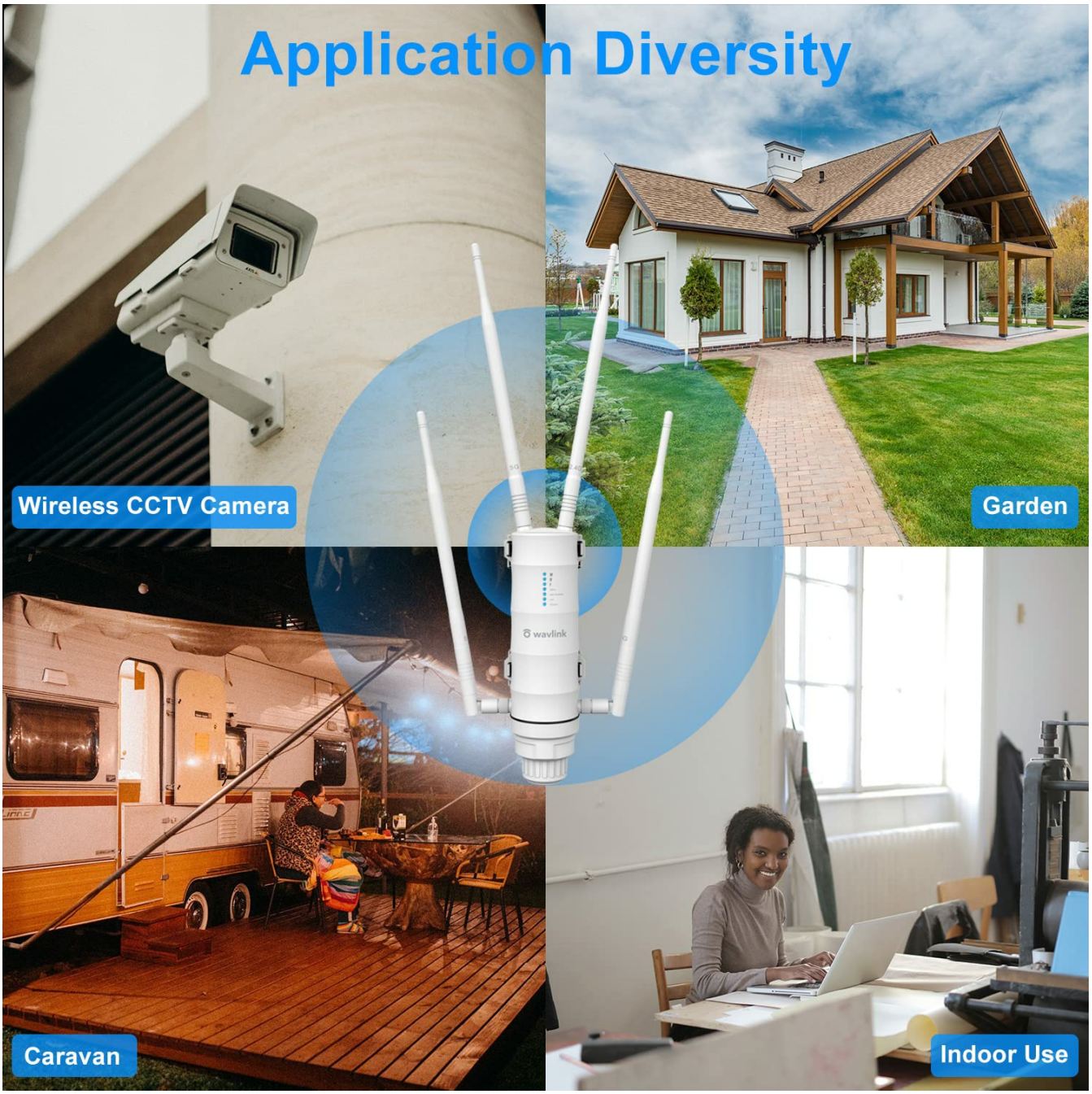


Figure 9: Application Diversity. This image shows the extender being used in various outdoor and indoor settings, including with a wireless CCTV camera, in a garden, for a caravan, and for general indoor use.

8. Troubleshooting

- **No Power:** Ensure the PoE adapter is correctly connected to the extender and a power outlet. Verify the power LED on the PoE adapter is illuminated.
- **No Internet Connection:** Check the Ethernet cable connection from your router to the PoE adapter's "LAN DATA IN" port. Verify your main router has an active internet connection.
- **Poor Signal Strength:**
    - Adjust the position and orientation of the extender and its antennas.
    - Ensure there are no major obstructions (e.g., thick walls, metal objects) between the extender and your devices or the main router.
    - Consider using a longer Ethernet cable for the PoE connection to place the extender in a more optimal location (up to 60 meters).

- **Cannot Access Configuration Page:** Ensure your device is connected to the extender's network. Try clearing your browser's cache or using a different browser.
- **Device Not Functioning as Expected:** Perform a factory reset. Locate the reset button (usually a small pinhole) on the device or PoE adapter, press and hold for 5-10 seconds until the LEDs flash. Note that a factory reset will erase all custom settings.

9. Maintenance

- **Cleaning:** Use a soft, dry cloth to clean the device. Do not use liquid cleaners or aerosols.
- **Firmware Updates:** Periodically check the WAVLINK official website for firmware updates to ensure optimal performance and security.
- **Environmental Protection:** While the device is weatherproof, avoid prolonged exposure to extreme conditions beyond its specified operating range. Ensure all cable glands and covers are securely fastened to maintain the IP65 rating.

10. Warranty and Support

WAVLINK products come with a standard manufacturer's warranty. For detailed warranty information, please refer to the warranty card included in your package or visit the official WAVLINK website. For technical support, troubleshooting assistance, or product inquiries, please contact WAVLINK customer service through their official support channels. You can find more information and support resources on theWAVLINK Store on Amazon.

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