WAVLINK AC1200 Outdoor WiFi Extender

WAVLINK Outdoor WiFi Extender AC1200 User Manual

Model: AC1200 Outdoor WiFi Extender
Brand: WAVLINK

Introduction

This manual provides detailed instructions for the installation, configuration, and operation of your WAVLINK AC1200 Outdoor WiFi Extender. This device is designed to extend your wireless network coverage outdoors, offering high-speed dual-band connectivity and robust performance in various environmental conditions.

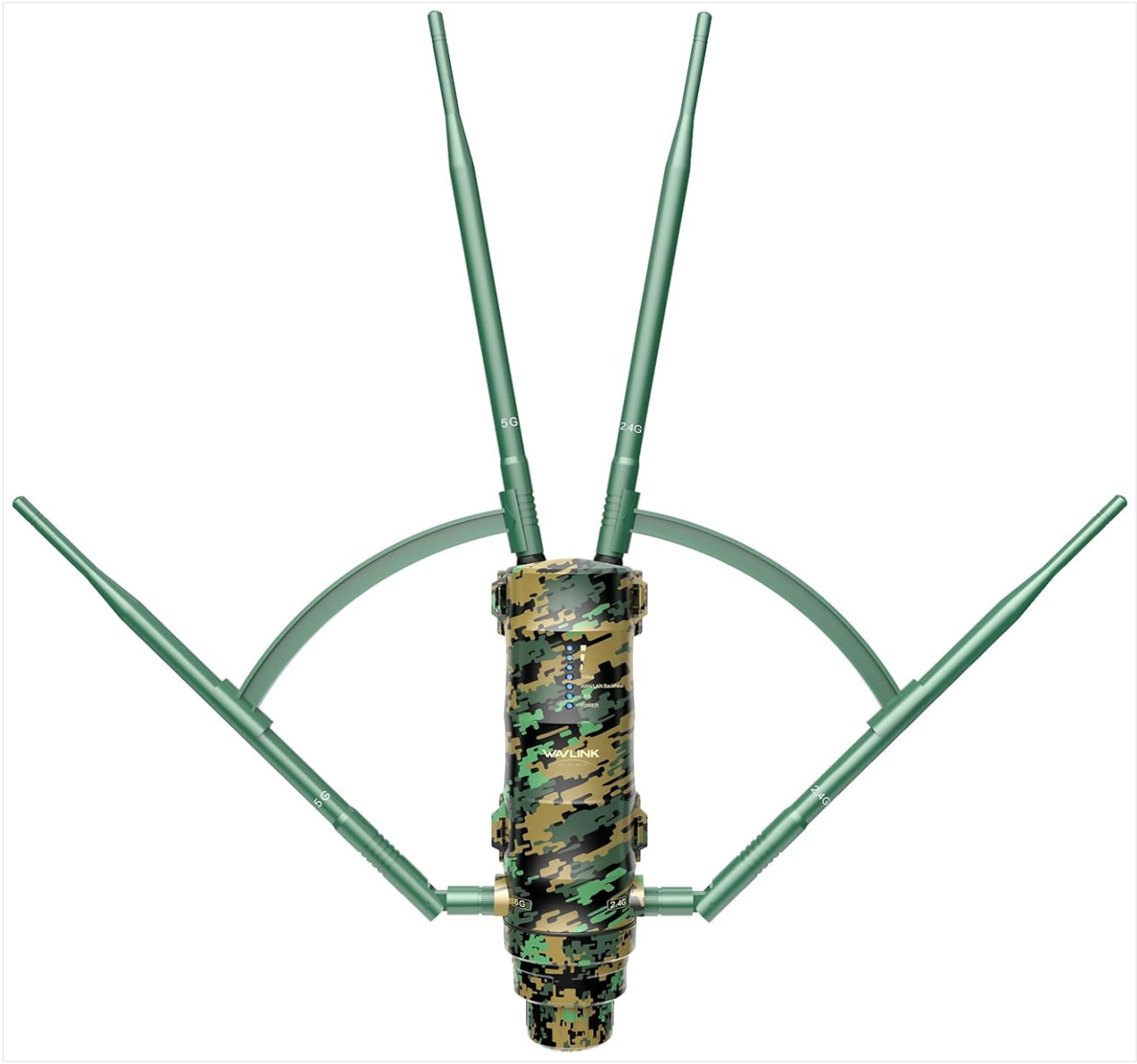


Figure 1: WAVLINK AC1200 Outdoor WiFi Extender

Key Features

- **AC1200 Dual-Band Connectivity:** Complies with IEEE 802.11ac/a/b/g/n standards, offering speeds up to 867Mbps on 5GHz and 300Mbps on 2.4GHz.
- **High Power & Coverage:** Equipped with 4x7dBi detachable omnidirectional antennas to amplify WLAN signals and extend outdoor coverage.
- **Multiple Operation Modes:** Supports Mesh Extender Mode, Access Point (AP) Mode, and Repeater Mode for flexible network deployment.
- **Power Over Ethernet (PoE):** Integrated Active PoE allows for installation in locations without direct power outlets, combining power and data over a single RJ-45 cable.
- **Robust Outdoor Design:** Features a durable, weatherproof enclosure (IP65 rated) with 15KV ESD and 4KV lightning protection, designed to withstand extreme temperatures (-30°C to 70°C) and harsh outdoor conditions.
- **Dual Gigabit Ethernet Ports:** Provides two Gigabit LAN/WAN Ethernet ports for stable wired connections.

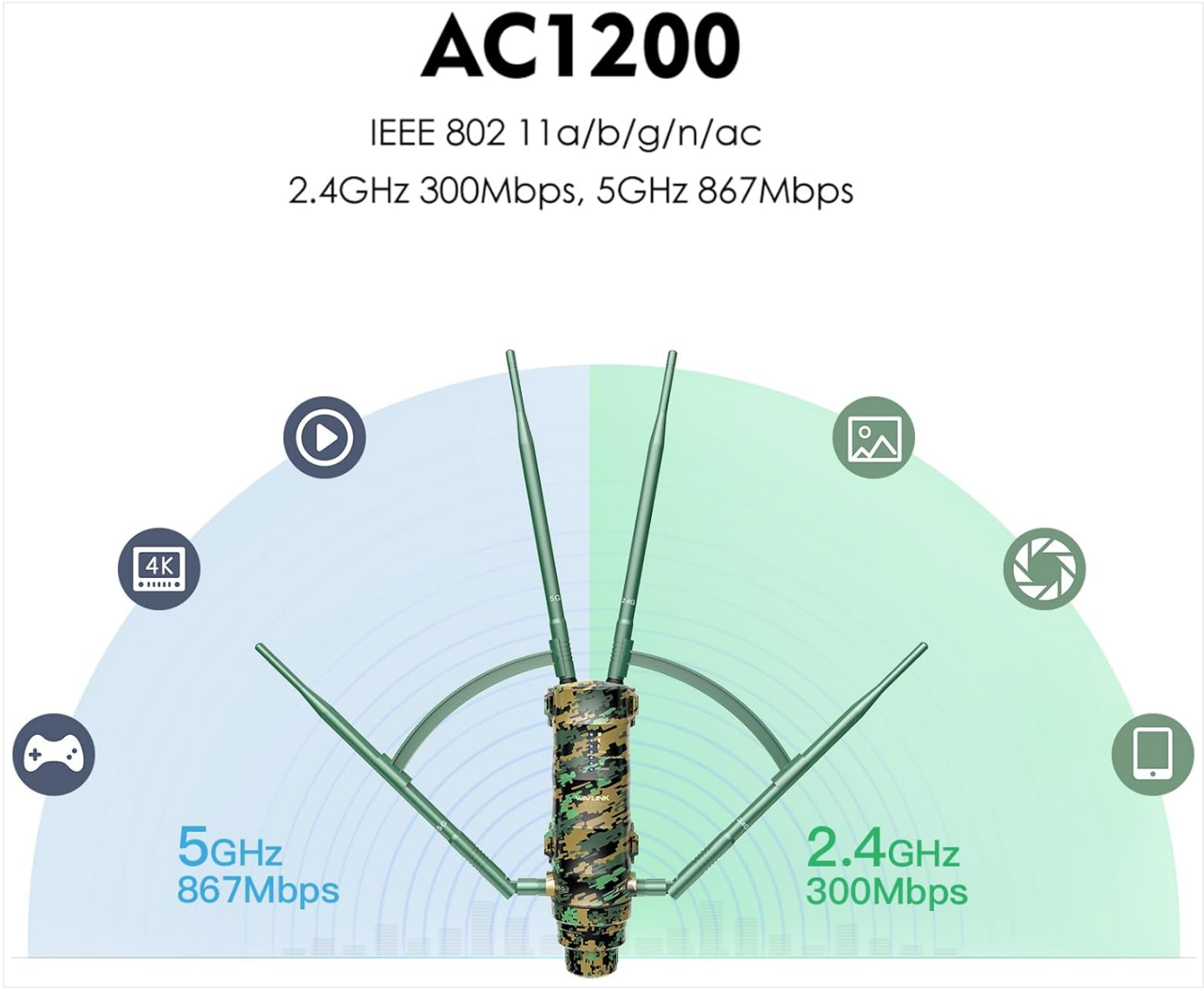


Figure 2: AC1200 Dual-Band Speed Capabilities

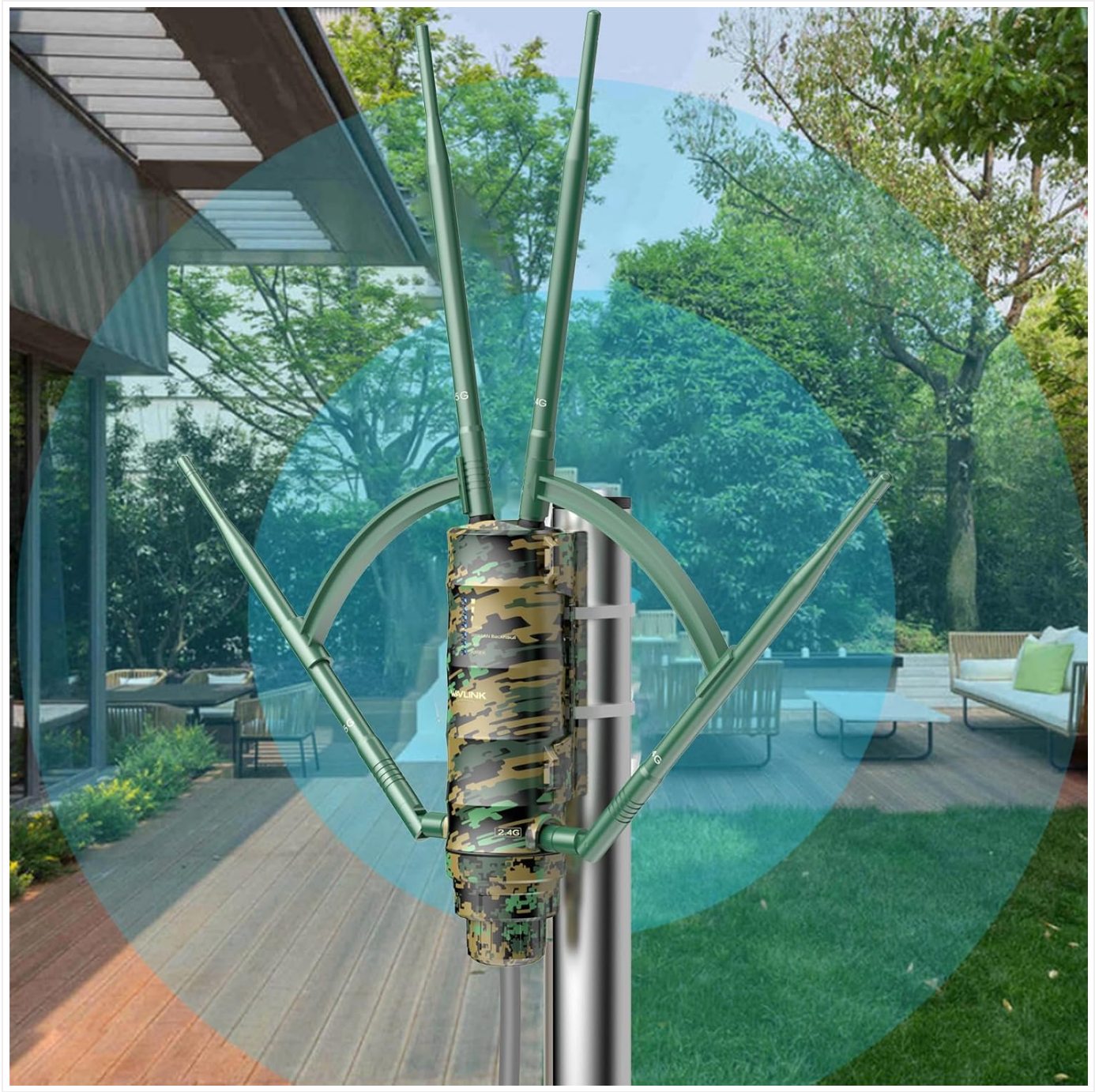


Figure 3: Extended Outdoor WiFi Coverage

Package Contents

Verify that all items listed below are present in your package:

- 1x AC1200 Dual Band Outdoor AP/Range Extender
- 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 4: Package Contents

Setup and Installation

1. Antenna Installation

Carefully screw the four omnidirectional antennas onto the corresponding ports on the extender. Ensure the 2.4G antennas are connected to the 2.4G ports and the 5G antennas to the 5G ports. Hand-tighten only.

2. Power Over Ethernet (PoE) Connection

The extender is powered via Power over Ethernet (PoE). Connect one end of the RJ45 networking cable to the LAN/WAN port on the extender and the other end to the "PoE" port on the provided PoE converter. Then, connect your router or network switch to the "LAN" port on the PoE converter. Finally, connect the power adapter to the PoE converter and plug it into a power outlet. The maximum cable length for PoE is 60 meters.

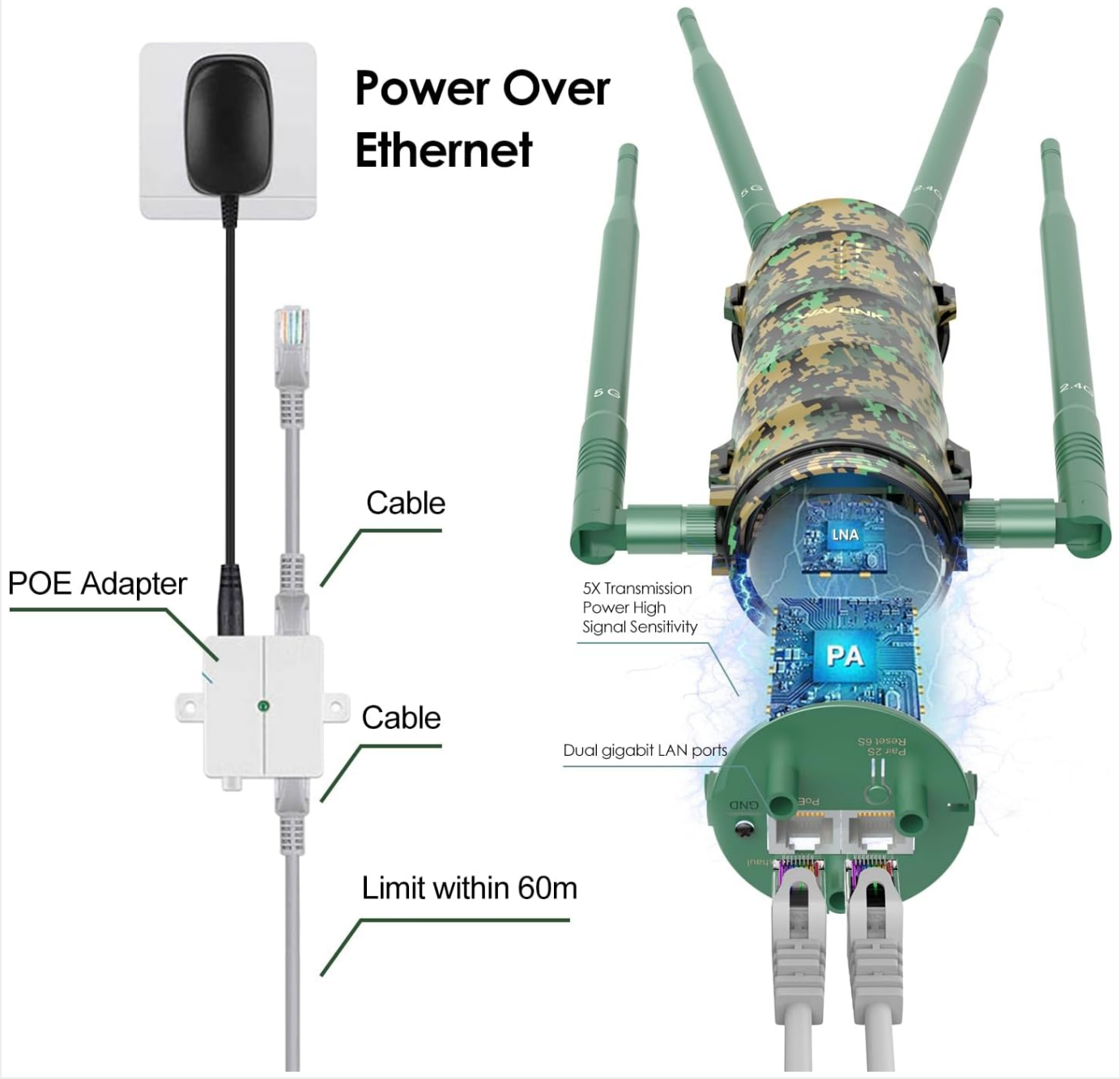


Figure 5: PoE Connection Diagram

3. Mounting the Extender

The extender can be mounted in various outdoor locations using the provided main body holder, cable ties, and screw fitting kit. Choose a location that provides optimal signal coverage and is within 60 meters of your PoE power source. Ensure the device is securely fastened.

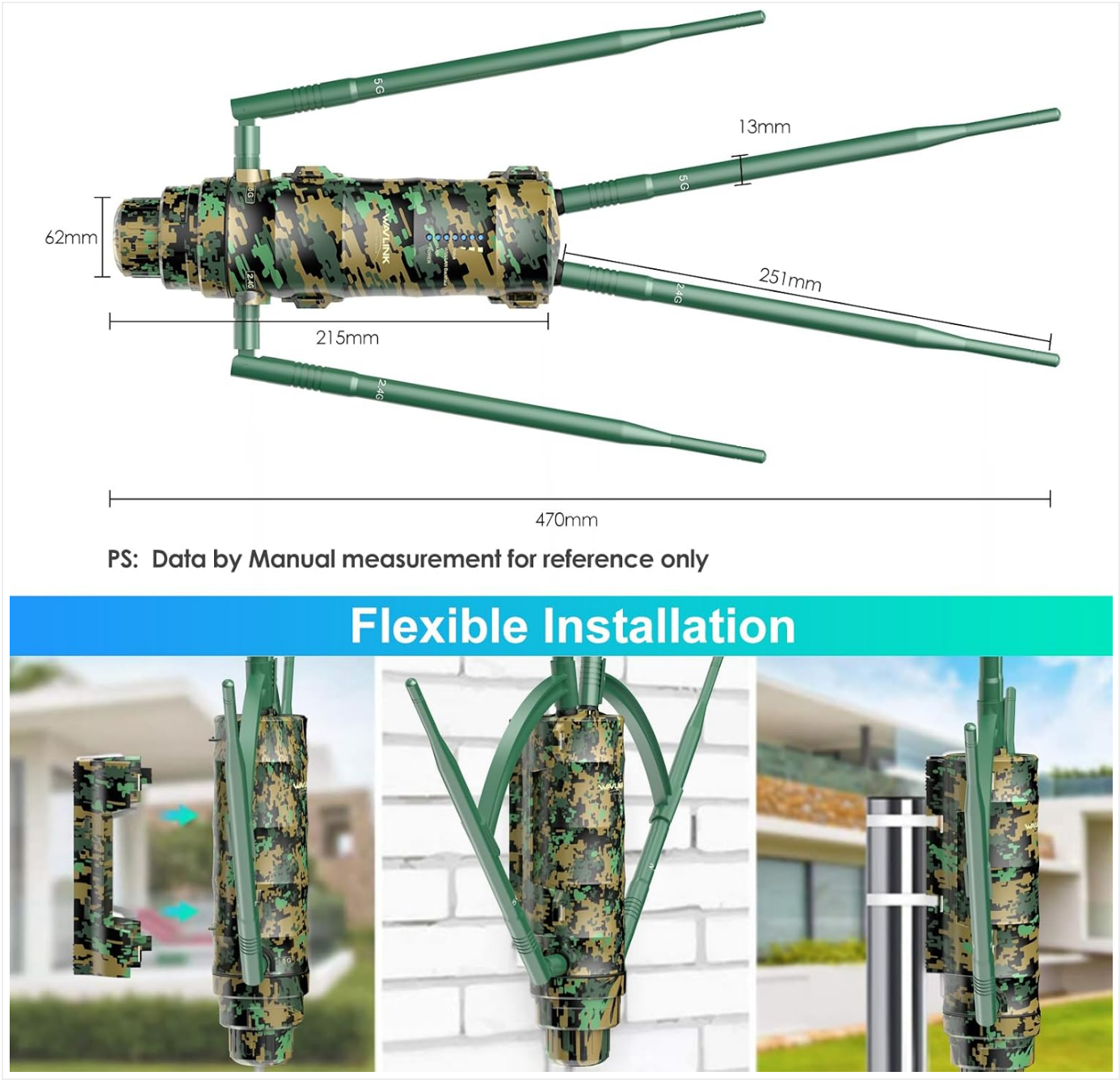


Figure 6: Flexible Installation Options and Dimensions

4. Initial Configuration

After physical installation and power-up, the extender will broadcast a default Wi-Fi network (SSID). Connect to this network from a computer or mobile device. Open a web browser and enter the default IP address (usually found in the Quick Start Guide) to access the web-based management interface. Follow the on-screen instructions to configure your desired operation mode and network settings.

Operating Modes

The WAVLINK AC1200 Outdoor WiFi Extender supports three primary operating modes:

- **Mesh Extender Mode:** Allows the device to seamlessly integrate into an existing Easy Mesh network, providing stable roaming and extended coverage. Note: This model functions as a mesh extender, not a mesh controller.
- **Access Point (AP) Mode:** Converts a wired network connection into a wireless one, acting as a central hub for wireless devices.
- **Repeater Mode:** Extends the range of an existing wireless network by receiving the signal and re-transmitting it.

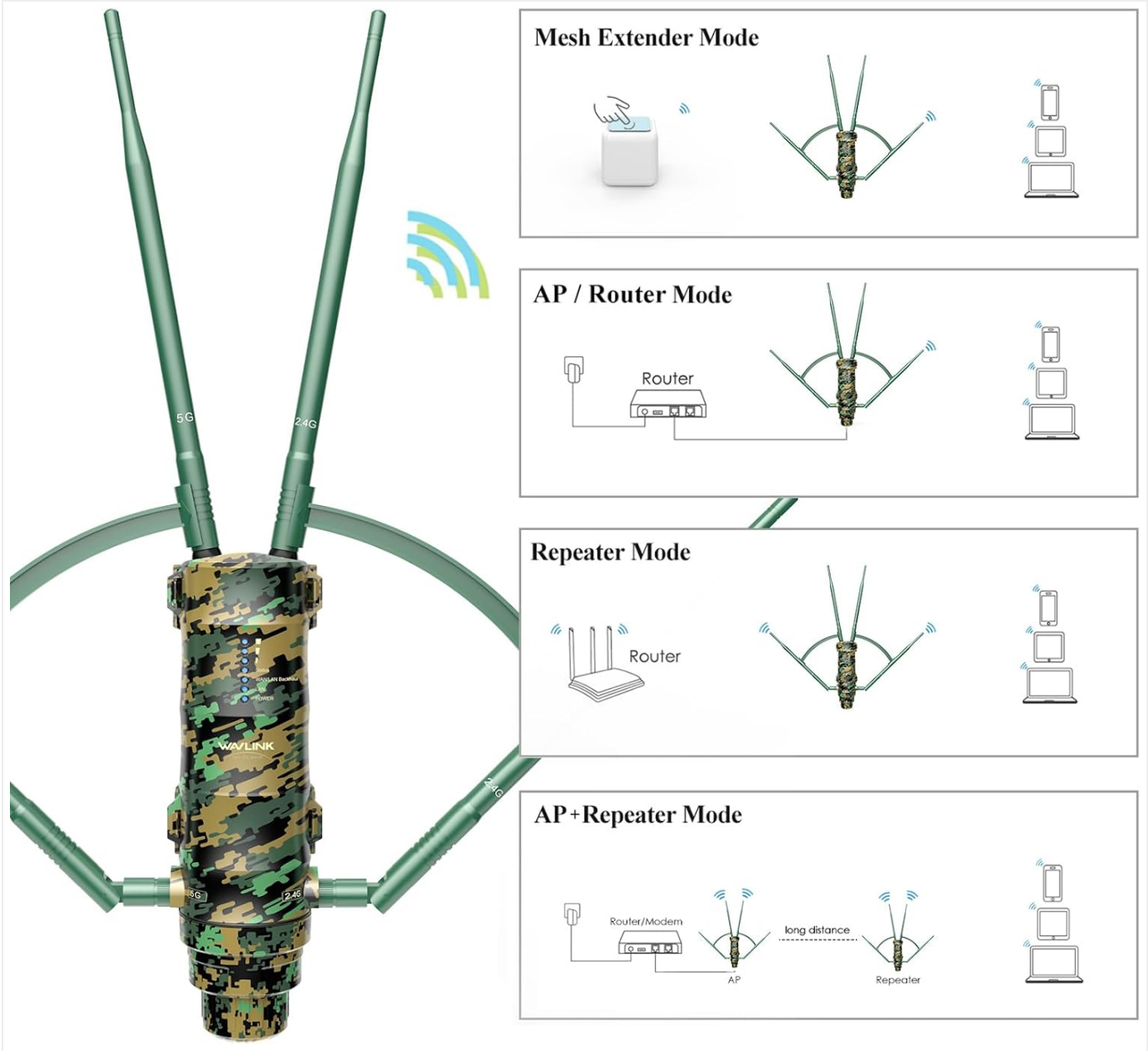


Figure 7: Multiple Operation Modes



Figure 8: Mesh Technology Supported

Environmental Considerations

The WAVLINK AC1200 Outdoor WiFi Extender is engineered for durability in harsh outdoor environments. Its weatherproof enclosure protects against:

- Extreme Cold and Heat: Operates within a temperature range of -30°C to 70°C (-22°F to 158°F).
- Moisture: Designed to withstand continuous moisture, rain, and snow.
- Electrical Surges: Features 15KV ESD and 4KV lightning protection for stable operation during electrical disturbances.

Important Note: The PoE converter and power adapter are not waterproof and must be installed in a dry, protected environment.



Figure 9: Professional Outdoor Design for Various Weather Conditions

SPECIFICATIONS

Attribute	Value
Brand	WAVLINK
Wireless Communication Standard	802.11a, 802.11ac, 802.11b, 802.11g, 802.11n
Data Transfer Rate	1.2 Gigabits Per Second (AC1200)
Frequency Band Class	Dual-Band (2.4GHz & 5GHz)
Special Features	Access Point Mode, Beamforming, LED Indicator, Weatherproof
Antennas	4 x 7dBi Detachable Omnidirectional

Attribute	Value
Ports	Dual Gigabit LAN/WAN Ethernet Ports
Power Supply	Active Power over Ethernet (PoE)
Operating Temperature	-30°C to 70°C (-22°F to 158°F)
Protection	15KV ESD, 4KV Lightning Protection

Troubleshooting

- **No Power/LEDs Off:** Ensure the PoE converter is properly connected to the power adapter and a working electrical outlet. Check all cable connections between the extender and the PoE converter.
- **No Internet Access:** Verify that the PoE converter's LAN port is connected to a working router or network switch with internet access. Check the network cable for damage.
- **Poor Signal Strength/Coverage:** Reposition the extender to a more central location or higher elevation. Ensure antennas are securely attached and oriented correctly. Check for physical obstructions between the extender and client devices.
- **Cannot Access Web Management Interface:** Ensure your device is connected to the extender's Wi-Fi network or directly via Ethernet. Verify the correct IP address is being used. Try clearing your browser's cache or using a different browser.
- **Network Instability:** Check for interference from other wireless devices. Ensure the extender's firmware is up to date. Consider changing the Wi-Fi channel in the settings.
- **Resetting the Device:** If issues persist, you may need to perform a factory reset. Refer to the Quick Start Guide for instructions on how to perform a hardware reset.

Support and Warranty

WAVLINK provides comprehensive customer support for its products. If you encounter any issues or have questions, please contact us:

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

We aim to provide solutions within 8 hours and offer life-long technical support for your WAVLINK product. Please refer to your product's packaging or the official WAVLINK website for specific warranty terms and conditions.

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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

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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