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› WAVLINK AC600 Outdoor Wireless Weatherproof WiFi Range Extender User Manual

WAVLINK AC600

WAVLINK AC600 Outdoor Wireless Weatherproof WiFi Range Extender User Manual

Model: AC600

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1. INTRODUCTION

The WAVLINK AC600 Outdoor Wireless Weatherproof WiFi Range Extender is designed to enhance your wireless network coverage. It supports 802.11AC Wi-Fi technology, offering dual-band connectivity at 2.4GHz (up to 150Mbps) and 5GHz (up to 433Mbps). This device is ideal for extending Wi-Fi signals in outdoor environments, eliminating dead zones, and providing stable network access over a wider area.

Key Features:

- **Dual-Band AC600 Wi-Fi:** Provides high-speed wireless connectivity on both 2.4GHz and 5GHz bands.
- **High Power Amplifiers:** Built-in PA+LNA 600mW amplifiers and enhanced receiver design for extended range and stronger penetration.
- **Detachable Omni-Directional Antennas:** Two 7dBi antennas strengthen Wi-Fi signal and expand coverage.
- **Power Over Ethernet (PoE):** Integrated PoE support allows for flexible installation in areas without direct power outlets using a single RJ-45 cable for power and data.
- **Multi-Operation Modes:** Supports Repeater, Router, and Access Point (AP) modes to suit various network requirements.
- **Weatherproof Design:** IP65-rated housing ensures reliable operation in harsh outdoor conditions, including extreme temperatures and moisture, with 15KV ESD and 4KV lightning protection.

2. WHAT'S IN THE BOX

Upon unpacking your WAVLINK AC600 Outdoor Wireless Weatherproof WiFi Range Extender, please ensure all the following items are present:

- WAVLINK AC600 Outdoor Wireless Weatherproof WiFi Range Extender Unit
- 2 x Detachable Omni-Directional Antennas
- Power Adapter
- RJ45 Ethernet Cable
- Mounting Kit (Cable ties, screws, wall plugs)
- Quick Installation Guide



Image: Contents of the WAVLINK AC600 package, showing the main unit, two antennas, an Ethernet cable, a power adapter, and mounting accessories.

3. PRODUCT OVERVIEW

Familiarize yourself with the physical components and dimensions of your WAVLINK AC600 device.



Image: Front view of the WAVLINK AC600 extender, displaying its two antennas and LED indicators.



Image: Bottom view of the WAVLINK AC600 unit, highlighting the WAN/LAN port, the recessed Reset button, and the grounding terminal (GND).

Installation Instructions

Assembly drawing

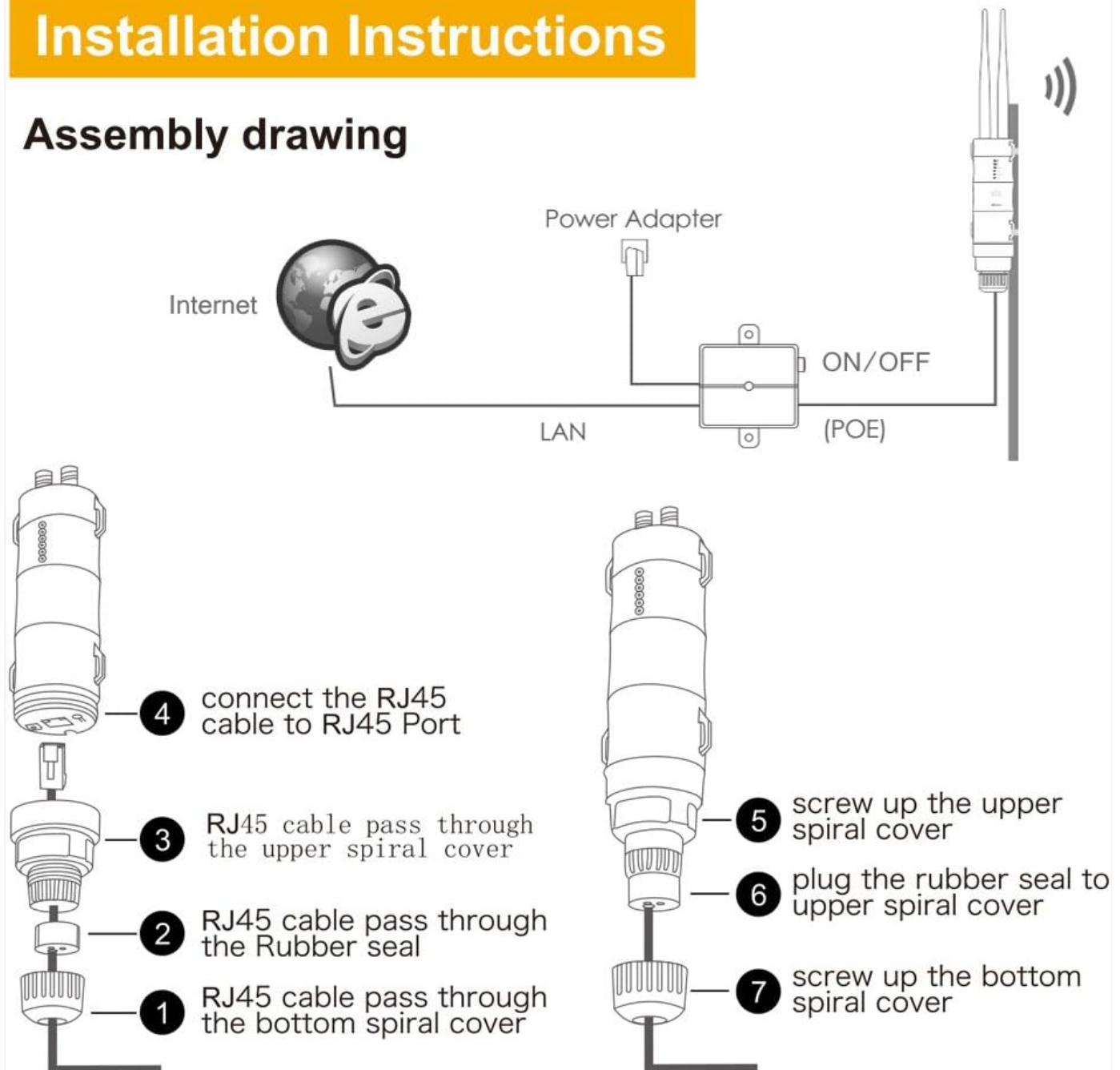


Image: Diagram illustrating the dimensions of the WAVLINK AC600 extender, which is approximately 17 inches (43 cm) tall and 2 inches (5 cm) wide.

4. SETUP INSTRUCTIONS

Follow these steps to set up your WAVLINK AC600 Outdoor Wireless Weatherproof WiFi Range Extender.

4.1 Physical Installation

1. **Attach Antennas:** Carefully screw the two detachable omni-directional antennas onto the connectors at the top of the extender unit.
2. **Mounting:** Use the provided mounting kit to securely attach the extender to a pole or wall in your desired outdoor location. Ensure the device is positioned for optimal signal coverage.
3. **Connect Ethernet Cable:**
 - a. Pass the RJ45 Ethernet cable through the bottom spiral cover.
 - b. Pass the RJ45 cable through the rubber seal.

- c. Pass the RJ45 cable through the upper spiral cover.
 - d. Connect the RJ45 cable to the WAN/LAN port on the extender.
 - e. Screw up the upper spiral cover.
 - f. Plug the rubber seal to the upper spiral cover.
 - g. Screw up the bottom spiral cover.
4. **Power Connection (PoE):** Connect the other end of the Ethernet cable to the PoE injector's "PoE" port. Then, connect your router's LAN port to the "LAN" port on the PoE injector. Finally, connect the power adapter to the PoE injector and a power outlet.



Image: Detailed assembly drawing for the WAVLINK AC600, illustrating how to connect the RJ45 cable through the waterproof covers and connect to the PoE adapter.

4.2 Software Configuration (AP/LAN Bridge Mode)

The default mode for the Range Extender is AP mode. Follow these steps to configure the device via a web browser.

1. **Connect to the Extender:** Connect your computer directly to the extender via an Ethernet cable, or wirelessly connect to the extender's default Wi-Fi network (usually named "WAVLINK_N" or similar, without a password).
2. **Access Web Interface:** Open a web browser and enter the default IP address (e.g., 192.168.10.1) into the address bar. Refer to the Quick Installation Guide for the exact default IP.
3. **Login:** Enter the default username and password (usually "admin" for both).
4. **Select Mode:** Navigate to the "Wizard" or "Operation Mode" section. Select "APLAN Bridge" (AP Mode) or "Repeater" or "Router" based on your network requirements.
5. **Configure Settings:** Follow the on-screen prompts to configure your Wi-Fi network name (SSID), password, and other relevant settings.
6. **Save and Reboot:** Save your settings and allow the device to reboot.

Your browser does not support the video tag.

Video: A step-by-step guide on how to install and configure the WAVLINK outdoor wireless access point and repeater, demonstrating connection and web interface setup.

5. OPERATING MODES

The WAVLINK AC600 supports multiple operating modes to adapt to various network scenarios:

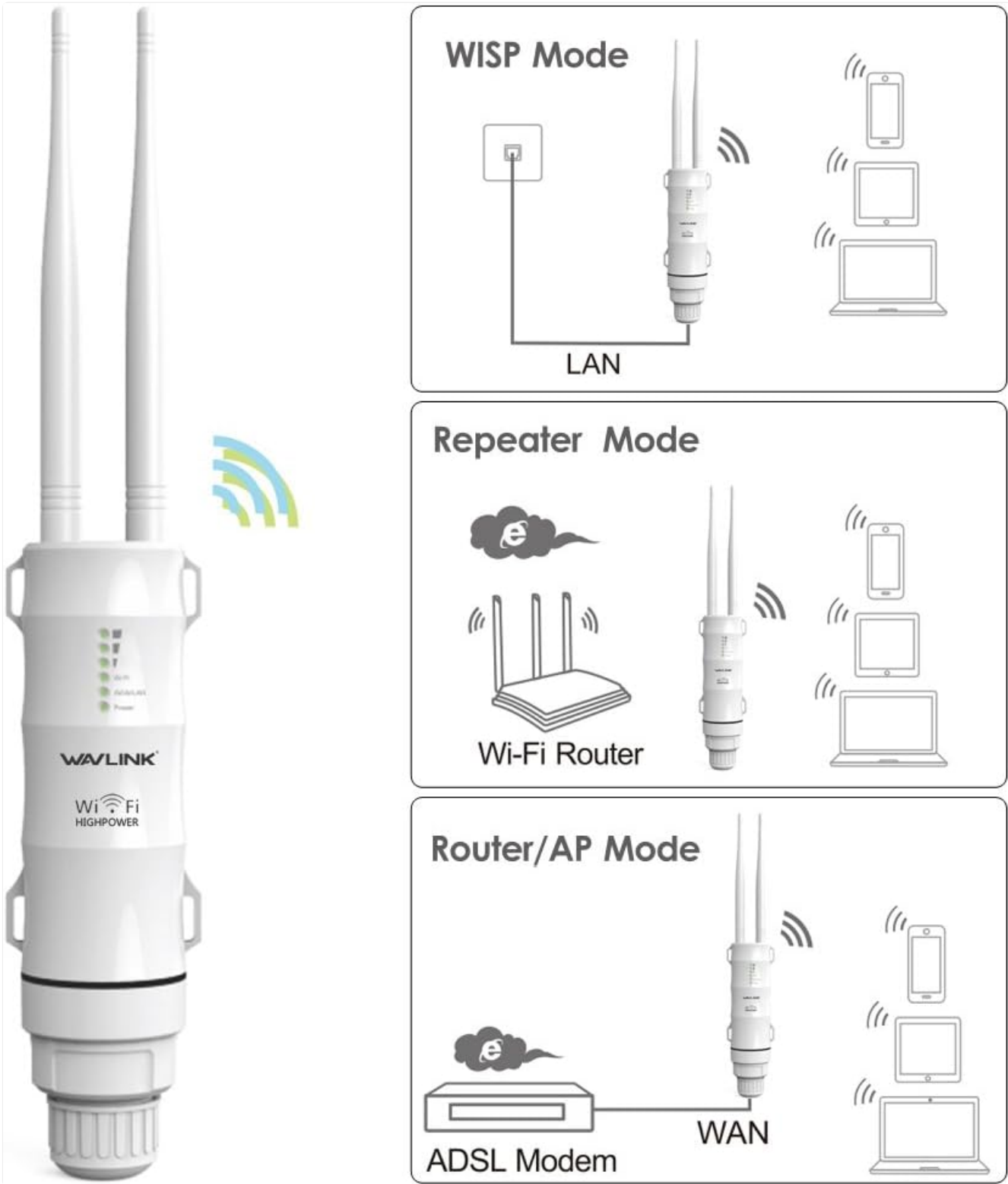


Image: Visual representation of the three main operating modes: WISP, Repeater, and Router/AP, showing how the device connects to different network setups.

5.1 Repeater Mode

In Repeater mode, the device extends the coverage of an existing wireless network. It receives the wireless signal from your main router and re-transmits it, effectively expanding the Wi-Fi range to areas with weak or no signal. This mode is

ideal for large homes, offices, or outdoor spaces where the existing Wi-Fi signal needs to be boosted.

5.2 AP (Access Point) Mode / LAN Bridge Mode

In AP mode, the device connects to a wired network (e.g., via an Ethernet cable from your router) and broadcasts a new wireless signal. This transforms a wired connection into a wireless one, allowing multiple devices to connect wirelessly. This is useful for adding Wi-Fi capability to a wired-only network or creating a new Wi-Fi hotspot.

5.3 Router Mode

In Router mode, the device acts as a primary router, connecting to a DSL or Cable modem. It creates a new private network, assigning IP addresses to connected devices and managing network traffic. This mode is suitable for setting up a new network from scratch or replacing an existing router.

6. SPECIFICATIONS

Feature	Detail
Brand	WAVLINK
Model Number	AC600
Wireless Communication Standard	802.11ac
Data Transfer Rate	Up to 583 Mbps (150Mbps for 2.4GHz, 433Mbps for 5GHz)
Frequency Band Class	Dual-Band (2.4 GHz, 5 GHz)
Antennas	2 x 7dBi Detachable Omni-Directional External Antennas
Amplifiers	Built-in High Power Amplifiers PA+LNA 600mW
Power Supply	Power Over Ethernet (PoE)
Connector Type	RJ45
Weatherproof Rating	IP65-rated
Environmental Protection	15KV ESD, 4KV Lightning Protection
Operating Temperature	-30°C to 70°C (-22°F to 158°F)
Compatible Devices	WiFi-enabled devices such as routers, smartphones, tablets, laptops, computers, smart TVs, gaming consoles, printers, and security cameras

7. TROUBLESHOOTING

If you encounter issues with your WAVLINK AC600, refer to the following common troubleshooting steps:

- No Power:**
 - Ensure the power adapter is securely connected to both the PoE injector and a working power outlet.

- Verify the Ethernet cable from the extender is correctly plugged into the "PoE" port of the injector.

2. Cannot Access Web Management Page:

- Confirm your computer is connected to the extender's network (either via Ethernet or its default Wi-Fi).
- Check that you are entering the correct default IP address (e.g., 192.168.10.1) in your browser.
- Temporarily disable any firewall or antivirus software on your computer that might be blocking access.
- Try a different web browser.

3. Weak or Unstable Signal:

- Adjust the position of the extender and its antennas for optimal signal reception.
- Ensure there are no major obstructions (e.g., thick walls, metal objects) between the extender and your main router or client devices.
- Check for sources of interference (e.g., microwaves, cordless phones) and move the extender away from them.
- Verify that the extender is operating in the correct mode (Repeater, AP, or Router) for your network setup.

4. Forgot Login Password:

- Perform a factory reset by pressing and holding the Reset button for approximately 8 seconds until the LED indicators flash. This will revert all settings to default, including the login credentials.

5. Internet Connection Issues:

- Ensure your main router has a working internet connection.
- If in Repeater mode, confirm the extender is successfully connected to your main router's Wi-Fi network.
- If in Router mode, verify the connection to your modem.

8. WARRANTY AND SUPPORT

WAVLINK products are designed for reliability and performance. This product comes with a standard manufacturer's warranty. Please refer to the warranty card included in your package or visit the official WAVLINK website for detailed warranty terms and conditions.

For technical support, product inquiries, or assistance with setup and troubleshooting, please contact WAVLINK customer service through their official website or the contact information provided in your product documentation. Keep your purchase receipt and product model number (AC600) handy when contacting support.

Online Resources:

- [WAVLINK Official Website](#)
- [WAVLINK Amazon Store](#)

