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WAVLINK RCUS-570HN2-US

WAVLINK N300 Outdoor WiFi Range Extender User Manual

Model: RCUS-570HN2-US

1. Introduction

Thank you for choosing the WAVLINK N300 High Power Weatherproof Outdoor WiFi Range Extender. This device is designed to provide reliable and extended wireless network coverage in outdoor environments. It functions as a 3-in-1 solution: a WiFi Range Extender, a Wireless Access Point, and a Router, offering flexibility for various networking needs. This manual provides detailed instructions for installation, configuration, and operation to ensure optimal performance.

2. Product Overview

The WAVLINK N300 is engineered for outdoor use, featuring a weatherproof enclosure and robust design. It supports the 802.11n wireless standard, delivering data transfer rates up to 300 Megabits Per Second. The device integrates Passive Power over Ethernet (PoE) for simplified installation, allowing power and data to be transmitted over a single Ethernet cable.

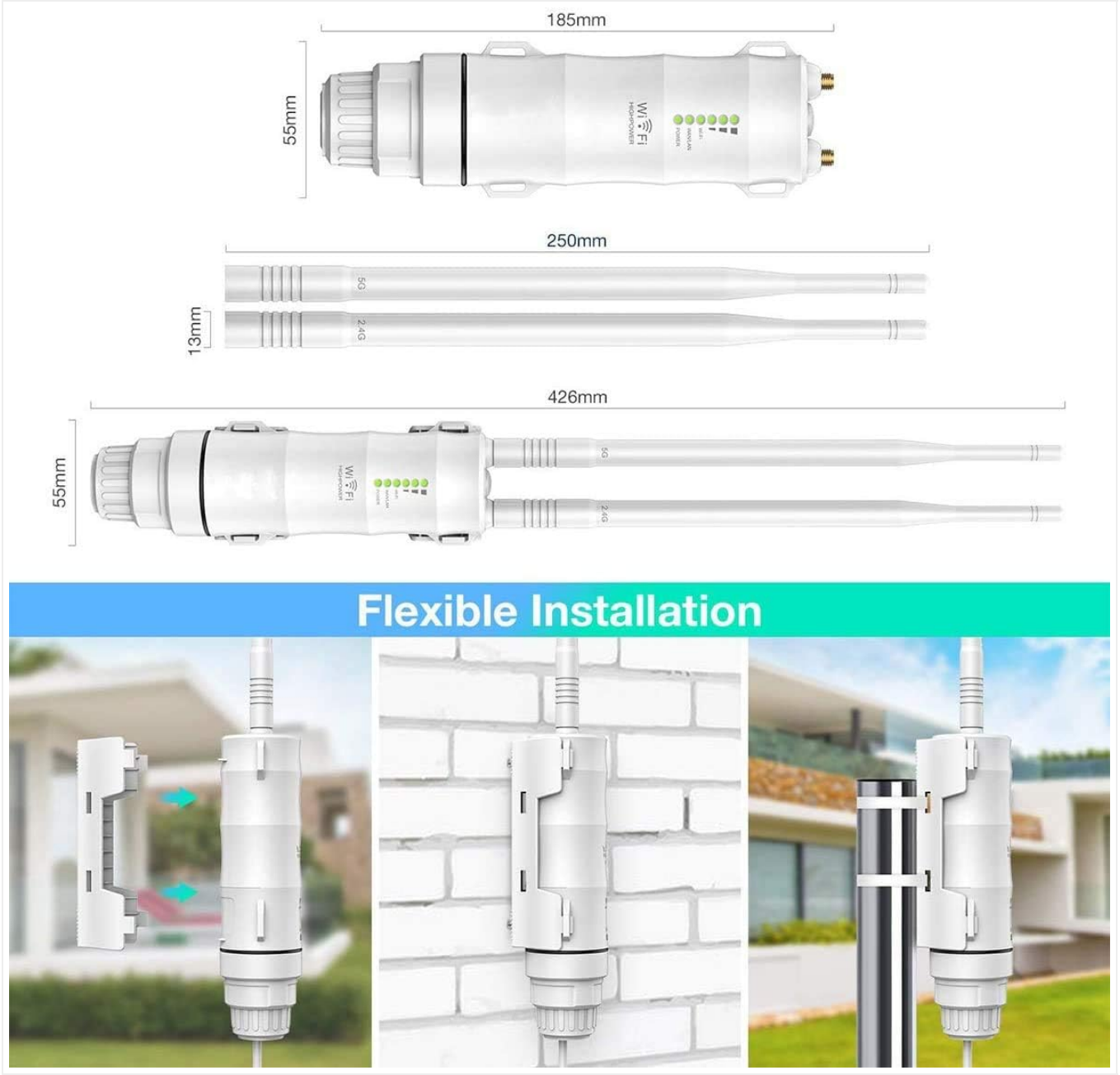

Figure 2.1: WAVLINK N300 device with key dimensions (185mm length, 55mm width, 426mm total length with antennas).

The device is equipped with external antennas for enhanced signal reach and stability. Its compact design allows for flexible mounting options.

3. Package Contents

Please verify that all items listed below are included in your package:

- WAVLINK N300 Outdoor WiFi Range Extender
- Power Adapter
- Antennas (2 units)
- RJ45 Ethernet Cable
- PoE Converter
- Mounting Kit (straps, screws, wall plugs)
- Quick Installation Guide



Figure 3.1: All components included in the WAVLINK N300 product package.

4. Installation Instructions

This section details the physical assembly and connection of the device.

4.1. Cable Assembly

Before mounting, assemble the RJ45 Ethernet cable with the waterproof seals:

1. Pass the RJ45 cable through the bottom spiral cover.
2. Pass the RJ45 cable through the rubber seal.
3. Pass the RJ45 cable through the upper spiral cover.
4. Connect the RJ45 cable to the RJ45 port on the device.
5. Screw up the upper spiral cover.
6. Plug the rubber seal into the upper spiral cover.

7. Screw up the bottom spiral cover to secure the connection.

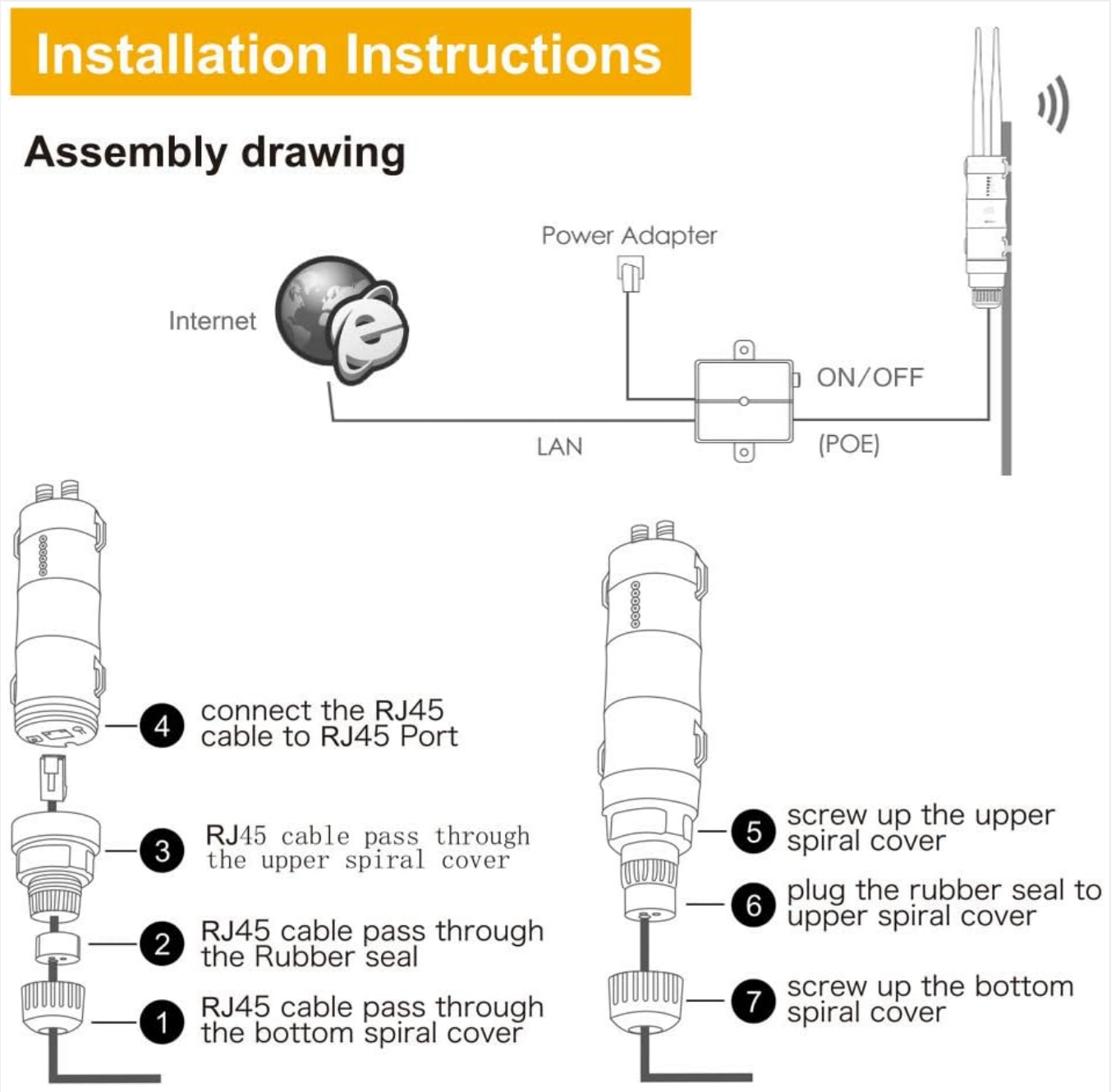

Figure 4.1: Step-by-step assembly of the RJ45 cable and waterproof connector.

4.2. Power Connection

Connect the assembled Ethernet cable from the device to the LAN/PoE port of the Passive PoE converter. Then, connect the power adapter to the PoE converter and plug it into a power outlet. Connect your router or network switch to the LAN port of the PoE converter.

4.3. Flexible Mounting

The WAVLINK N300 offers flexible installation options for various outdoor settings. It can be mounted on a pole using the provided straps or directly onto a wall using screws and wall plugs.

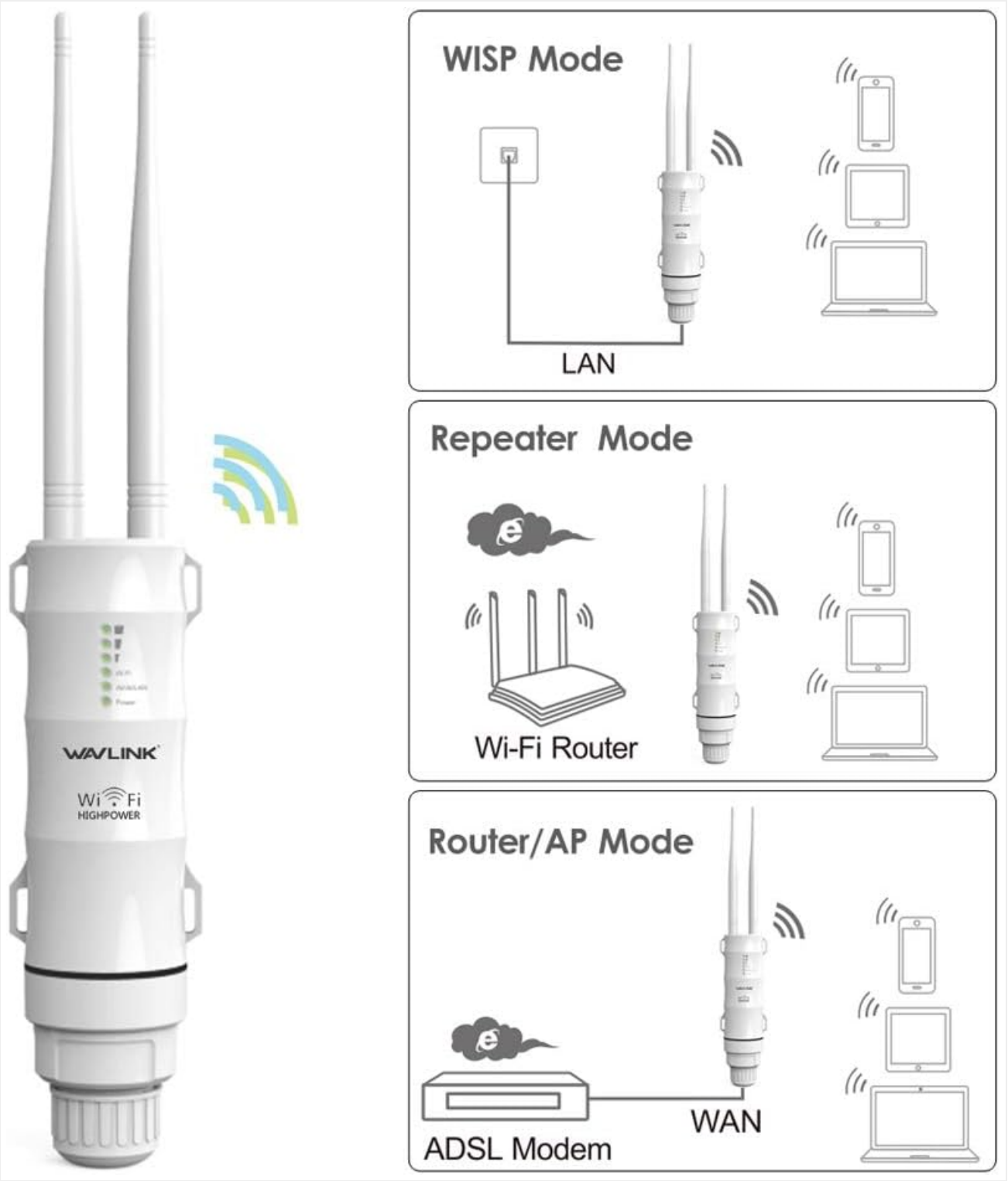

Figure 4.2: Examples of mounting the device on a pole or wall.

4.4. Professional Outdoor Design

The device features a weatherproof enclosure, providing protection against environmental elements. It also includes 15KV ESD and 4KV lightning protection to ensure safety and stable connectivity in harsh outdoor conditions.



Figure 4.3: The device's robust design for outdoor environments.

5. Operating Modes

The WAVLINK N300 supports three primary operating modes:

- **WISP Mode:** Connects to a wireless ISP network and shares the internet connection wirelessly or via LAN.
- **Repeater Mode:** Extends the coverage of an existing wireless network by repeating the signal.
- **Router/AP Mode:** Functions as a standard wireless router or an access point, creating a new wireless network or adding wireless capability to a wired network.

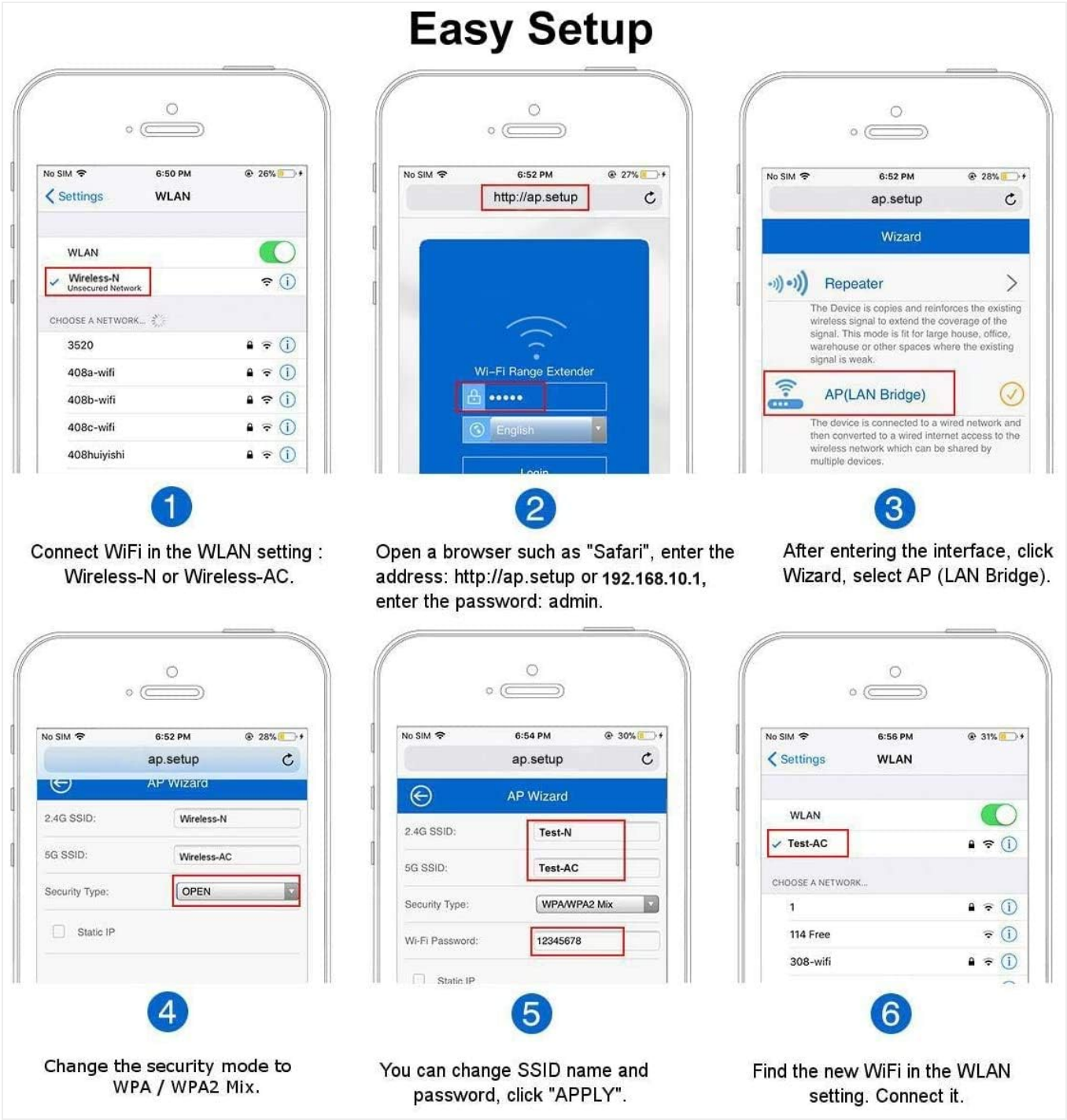

Figure 5.1: Visual representation of the three operating modes.

6. Easy Setup (Software Configuration)

To configure the device, follow these steps:

1. **Connect to the Device:** Connect your computer or mobile device to the WAVLINK N300's default Wi-Fi network (e.g., "Wireless-N" or "Wireless-AC"). Ensure your device is not connected to your main LAN during initial configuration to avoid conflicts.
2. **Access Web Interface:** Open a web browser (e.g., Safari, Chrome) and enter the default IP address or domain name in the address bar. Common addresses are http://ap.setup or 192.168.10.1.
3. **Login:** Enter the default username and password (usually "admin" for both, refer to the Quick Installation Guide for specifics).
4. **Run Wizard:** Once logged in, click on the "Wizard" or "AP (LAN Bridge)" option to begin the setup process.
5. **Select Operating Mode:** Choose your desired operating mode (Repeater, Access Point, or Router) and follow

the on-screen prompts.

6. **Configure Wireless Settings:** Change the SSID (network name) and set a strong Wi-Fi password (WPA/WPA2 Mix is recommended).
7. **Apply Settings:** Click "Apply" or "Save" to save your configuration. The device will restart.
8. **Reconnect:** After the device restarts, find your newly configured Wi-Fi network in your device's Wi-Fi settings and connect to it using your new password.

7. Maintenance

To ensure the longevity and optimal performance of your WAVLINK N300, consider the following maintenance tips:

- **Regular Cleaning:** Periodically inspect the device for dirt, dust, or debris accumulation, especially around the ports and ventilation areas. Clean with a soft, dry cloth.
- **Firmware Updates:** Check the WAVLINK official website for firmware updates. Keeping the firmware updated can improve performance, security, and add new features.
- **Cable Inspection:** Regularly inspect the Ethernet cable and power connections for any signs of wear, damage, or corrosion, especially in outdoor installations.
- **Environmental Checks:** Ensure the mounting remains secure and the device is not exposed to extreme physical stress or prolonged submersion in water.

8. Troubleshooting

If you encounter issues with your WAVLINK N300, refer to the following common problems and solutions:

- **Cannot Access Web Management Page:**
  Solution: Ensure your computer is connected to the device's Wi-Fi or LAN port (via the PoE converter) and not your main network. Verify the IP address or domain name (http://ap.setup or 192.168.10.1) is entered correctly. Try clearing your browser's cache or using a different browser. If the device has internet access, it might prevent access to the config menu; disconnect from the router but keep PoE connected.
- **No Internet Access After Setup:**
  Solution: Check the connection between the PoE converter's LAN port and your main router/modem. Ensure the operating mode is correctly configured (e.g., Repeater mode needs to connect to an existing Wi-Fi, Router mode needs a WAN connection). Verify the Wi-Fi password for the upstream network is correct if in Repeater or WISP mode.
- **Poor Signal Strength or Slow Speed:**
  Solution: Reposition the device for better line-of-sight to your main router or client devices. Ensure antennas are properly attached and oriented. Check for sources of interference (e.g., thick walls, metal objects, other wireless devices). In Repeater mode, ensure the device itself receives a strong signal from the main router.
- **Device Not Powering On:**
  Solution: Verify the power adapter is securely connected to the PoE converter and a working power outlet. Check the Ethernet cable connection between the device and the PoE converter.
- **Forgot Login Password:**
  Solution: Perform a factory reset. Locate the reset button (usually a small pinhole) on the device. With the device powered on, press and hold the reset button for 5-10 seconds until the indicator lights change. The device will revert to factory default settings, and you can then use the default login credentials.

9. Specifications

Feature	Description
Model Number	RCUS-570HN2-US
Wireless Standard	802.11n
Data Transfer Rate	Up to 300 Megabits Per Second
Special Features	Weatherproof, 3-in-1 (Repeater, AP, Router), Passive POE, 15KV ESD, 4KV Lightning Protection
Included Components	Antennas, Power Adapter, PoE Converter, Ethernet Cable, Mounting Kit
Product Dimensions	11.34 x 4.8 x 2.36 inches (28.8 x 12.2 x 6 cm)
Item Weight	15.8 ounces (448 grams)

10. Warranty and Support

WAVLINK products come with a limited warranty. For detailed warranty information, technical support, or to download the latest drivers and firmware, please visit the official WAVLINK website. You can typically find support resources under the 'Support' or 'Download' sections of the website.
Please retain your proof of purchase for warranty claims.

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.

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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

Answered questions about this manual

How do I perform a factory reset on the WAVLINK RCUS-570HN2-US N300 Outdoor Wi-Fi Range Extender?

To perform a factory reset on your WAVLINK RCUS-570HN2-US (N300 Outdoor WiFi Range Extender), follow these steps: Ensure the device is powered on via the PoE converter. Locate the reset button, which is typically...

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