

WAVLINK N300

WAVLINK N300 Outdoor WiFi Repeater/Access Point User Manual

Model: N300

1. INTRODUCTION

The WAVLINK N300 Outdoor WiFi Repeater/Access Point is designed to provide a reliable and extended wireless network solution for outdoor environments. This device supports multiple operating modes, including Repeater, Access Point (AP), and Router, offering flexibility for various network requirements. With its robust, weather-resistant design and Power over Ethernet (PoE) support, it is suitable for extending Wi-Fi coverage to large outdoor areas such as gardens, parks, outdoor cafes, and parking lots.

This manual provides comprehensive instructions for the installation, configuration, and maintenance of your WAVLINK N300 device to ensure optimal performance and connectivity.

2. PACKAGE CONTENTS

Please verify that all items listed below are included in your package. If any item is missing or damaged, please contact your retailer.

- 1 x WAVLINK N300 Outdoor WiFi Repeater/Access Point Unit
- 1 x Power Adapter
- 1 x PoE Converter
- 1 x Ethernet Cable
- 1 x Quick Installation Guide
- 2 x Cable Ties
- Multiple Screw Connectors



Image: Contents of the WAVLINK N300 package, including the main unit, power adapter, PoE converter, Ethernet cable, quick guide, cable ties, and screw connectors.

3. PRODUCT OVERVIEW

The WAVLINK N300 features a robust design suitable for outdoor deployment. It includes integrated antennas and a durable casing to withstand various weather conditions.

Key Features:

- **Wireless Speed:** Up to 300 Mbps on the 2.4 GHz band with 2x2 MIMO technology.
- **High Power:** Up to 1000 mW for extended coverage.
- **PoE Support:** Passive Power over Ethernet for flexible installation up to 60 meters (200 feet).
- **Outdoor Durability:** IP67 rated waterproof enclosure, 15 kV ESD protection, and 4 kV surge protection.
- **Multiple Modes:** Supports Router, Access Point, Repeater, and WISP modes.

Fit with Any Outdoor Scenarios

Note: The PoE part of the router is not waterproof



IP67 Waterproof Enclosure



-10°C~50°C(-14°F~122°F)



15KV ESD & 6KV Lightning Protection

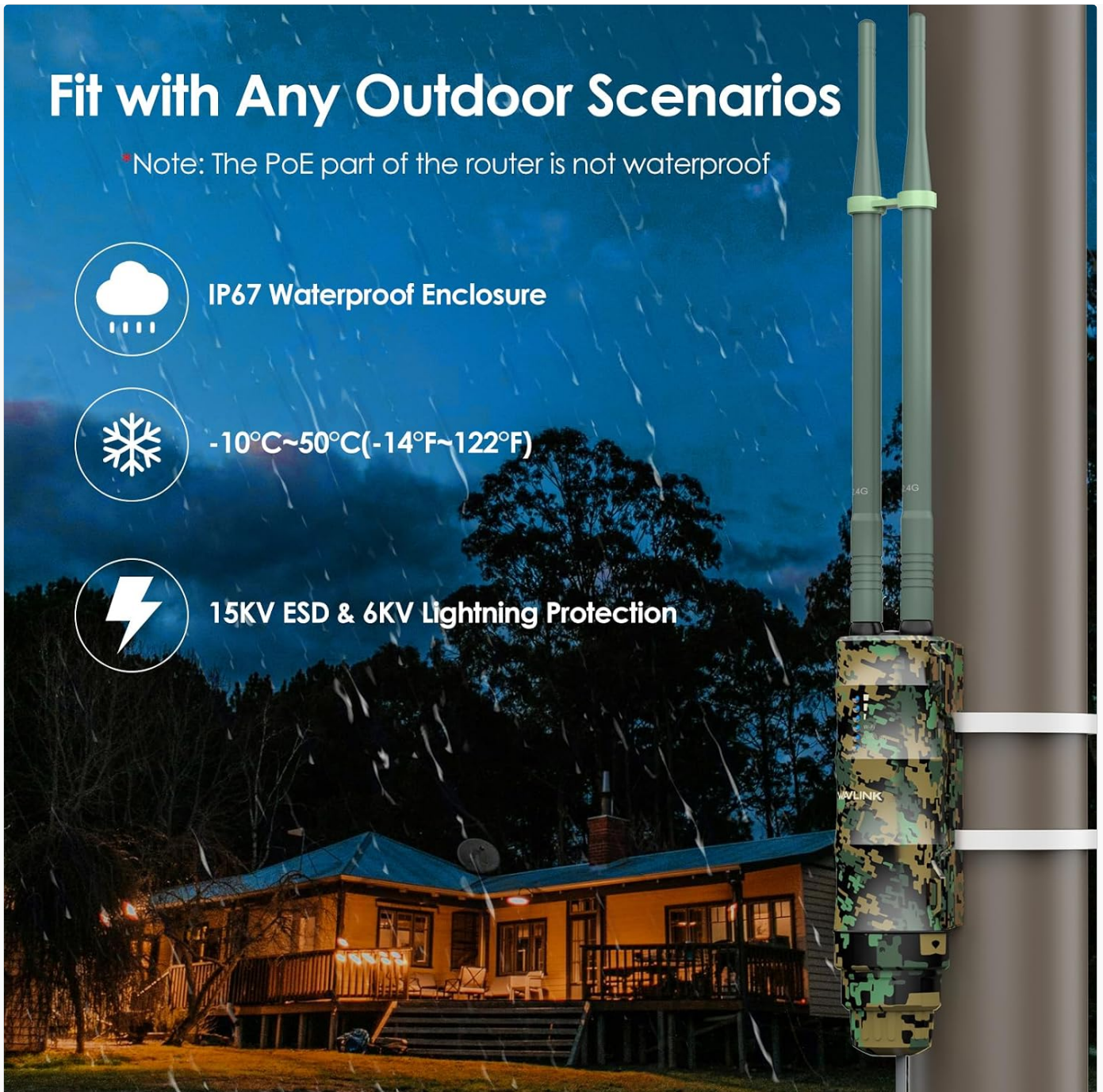


Image: Overview of the N300 Outdoor Wireless AP/Repeater, highlighting 300Mbps speed, 7dBi antennas, 150m coverage range, and support for 32 devices.

Device Components:

- **Reset Button:** Press and hold for 8 seconds to restore factory default settings.
- **WAN/LAN Port (PoE):** RJ45 port for connecting to your network and receiving power via PoE.
- **Antennas:** Integrated high-gain omnidirectional antennas.

Default Parameters

2.4G SSID: WAVLINK-N XXXX
Default IP: 192.168.10.1
Password: admin



Image: Detailed view of the WAVLINK N300 device showing the reset button, WAN/LAN port, and overall dimensions (43cm/17in height, 5cm/2in width). Default parameters like 2.4G SSID and IP address are also visible.

4. SPECIFICATIONS

Feature	Description
Brand	WAVLINK
Wireless Communication Standard	802.11n
Data Transfer Rate	300 Megabits per second

Special Features	Integrated Power over Ethernet (PoE), IP67 waterproof and heat-resistant housing, supports four operating modes (Repeater, Router, Access Point, and AP + Repeater)
Color	Green (Camouflage)
Compatible Devices	Wi-Fi enabled devices
Supported Frequency Bands	2.4 GHz
Range	Up to 1000 meters (theoretical)
Analog RGB Input	RJ45



Image: Diagram illustrating the outdoor product specifications, including waterproof casing and lightning protection features, set against a night house scene.

5. SETUP

5.1 Physical Installation

The WAVLINK N300 is designed for outdoor mounting. Choose a location that provides optimal line-of-sight to the areas requiring Wi-Fi coverage and is protected from direct impact if possible. The device can be mounted on a pole or wall using the provided cable ties and screw connectors.

1. Secure the mounting bracket to a pole or wall using the provided hardware.
2. Attach the WAVLINK N300 unit to the mounting bracket.
3. Adjust the device's orientation for best signal coverage.

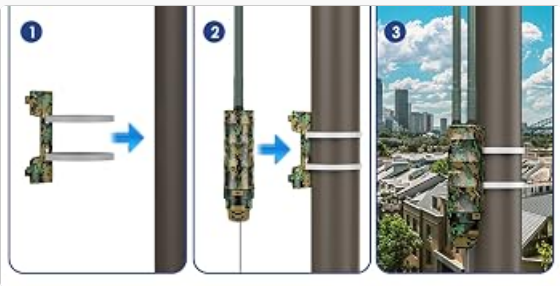


Image: A three-step installation guide showing how to fix the mounting bracket, insert the device, and position it on a pole.

5.2 Power over Ethernet (PoE) Connection

The N300 supports passive PoE, allowing both power and data to be transmitted over a single Ethernet cable. This simplifies installation by reducing the number of cables required.

1. Connect one end of the Ethernet cable to the WAN/LAN (PoE) port on the N300 device.
2. Connect the other end of the Ethernet cable to the 'PoE' port on the provided PoE converter.
3. Connect another Ethernet cable from the 'LAN DATA IN' port on the PoE converter to your modem or router.
4. Plug the power adapter into the PoE converter and then into a power outlet.

Note: The PoE part of the router is not waterproof. Ensure the PoE converter and power adapter are installed in a dry, protected environment. Use a CAT5E cable or above for connections up to 100 meters.

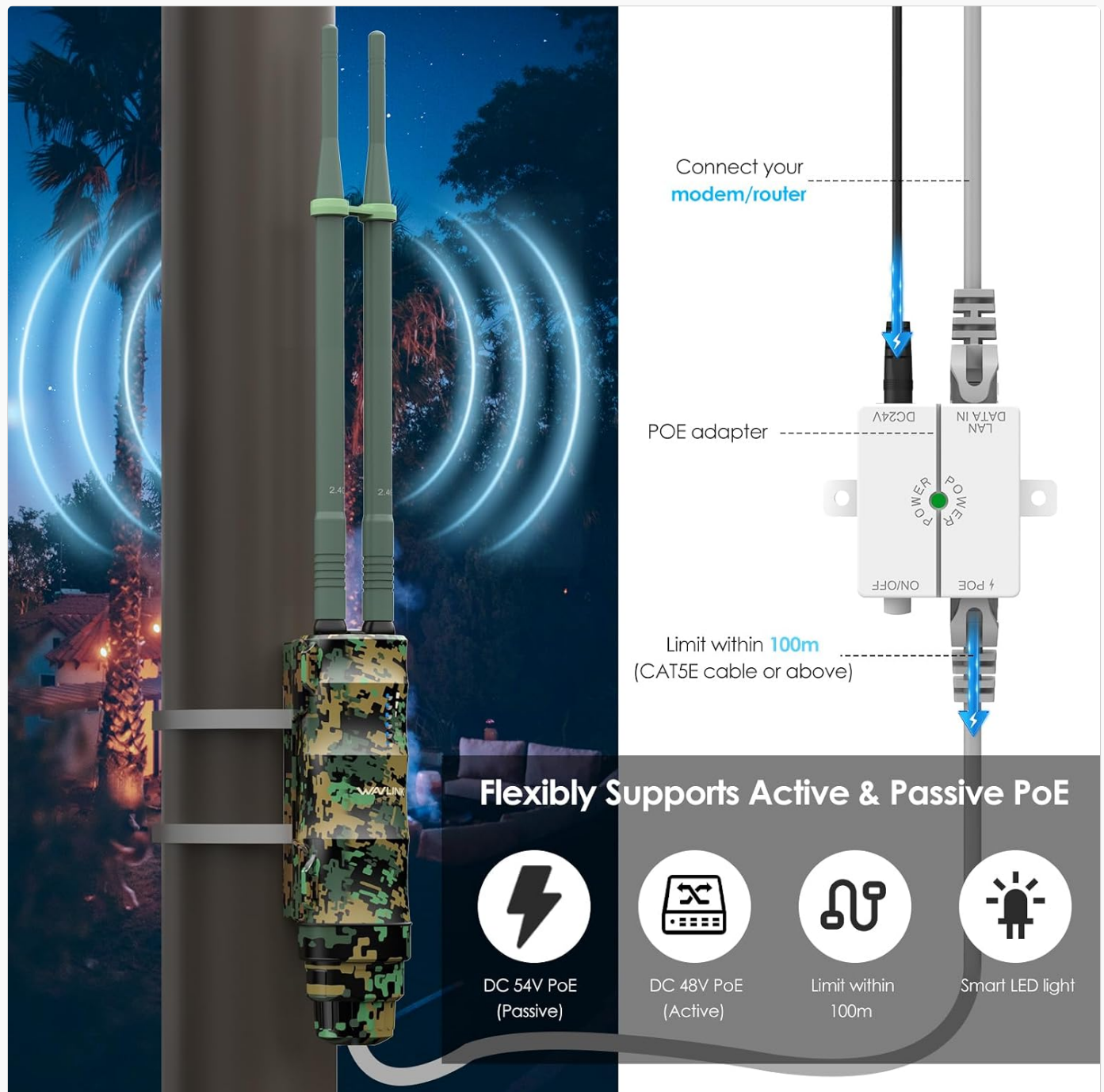


Image: Diagram illustrating the flexible PoE support, showing how to connect the device to a modem/router via a PoE adapter and Ethernet cables. It also highlights the 100m cable limit and smart LED light.

5.3 Initial Configuration

After physical installation and power connection, you can configure the device via a web browser.

1. Connect your computer directly to the LAN port of the PoE converter using an Ethernet cable, or connect wirelessly to the device's default SSID.
2. Open a web browser and enter the default IP address: **192.168.10.1**
3. Log in using the default username and password. The default password is **admin**.
4. Follow the on-screen wizard to select your desired operating mode and configure network settings (SSID, password, etc.).

6. OPERATING MODES

The WAVLINK N300 supports several operating modes to suit different network requirements:

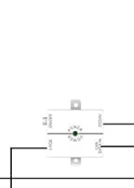
- **AP/Router Mode:** The device acts as a primary router or an access point, creating a new wireless network.
- **Repeater Mode:** The device extends the coverage of an existing wireless network by repeating its signal.
- **AP+Repeater Mode:** A combination mode where the device functions as an Access Point while also extending the range of an existing network.
- **WISP Mode:** Wireless Internet Service Provider mode, allowing the device to connect to a WISP access point wirelessly and share the internet connection with local clients.

Multiple & Optional Working Modes

1

AP/Router Mode

Modem/Router



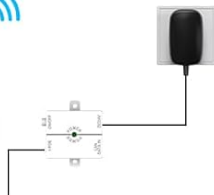
AP/Router



Repeater Mode



Router



Repeater

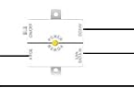


2

3

AP+Repeater Mode

Modem/Router



AP

long distance



Repeater



Image: Diagram illustrating the three primary operating modes: AP/Router Mode, Repeater Mode, and AP+Repeater Mode, showing how the device connects to a modem/router and provides Wi-Fi to client devices.

Select the appropriate mode during the initial configuration based on your network setup and requirements.

7. MAINTENANCE

7.1 General Care

- Ensure the device is securely mounted and free from physical obstructions.
- Periodically check cable connections for tightness and integrity.
- Keep the PoE converter and power adapter in a dry, protected area.

7.2 Firmware Updates

Regularly check the WAVLINK official website for firmware updates. Firmware updates can improve performance, add new features, and enhance security.

1. Download the latest firmware file for your N300 model from the WAVLINK support page.
2. Log in to the device's web management interface (192.168.10.1).
3. Navigate to the firmware upgrade section (usually under System Tools or Administration).
4. Upload the downloaded firmware file and follow the on-screen instructions.

Caution: Do not power off the device during a firmware upgrade, as this may cause permanent damage.

8. TROUBLESHOOTING

8.1 No Power/Device Not Turning On

- Ensure the power adapter is securely connected to the PoE converter and a working power outlet.
- Verify that the Ethernet cable from the PoE converter's 'PoE' port is correctly connected to the N300's WAN/LAN port.
- Check if the power outlet is functional by plugging in another device.

8.2 Cannot Access Web Management Interface

- Ensure your computer's IP address is in the same subnet as the device (e.g., 192.168.10.x, where x is not 1). Set your computer to obtain an IP address automatically (DHCP).
- Verify that the Ethernet cable connection between your computer and the PoE converter is secure.
- Confirm you are using the correct default IP address (**192.168.10.1**).
- Try clearing your browser's cache or using a different browser.
- If you have changed the device's IP address and forgotten it, perform a factory reset.

8.3 No Internet Connection

- Check the connection between the PoE converter's 'LAN DATA IN' port and your modem/router.
- Verify that your modem/router has an active internet connection.
- Ensure the N300 is configured correctly for your chosen operating mode (e.g., Repeater mode needs to connect to an existing Wi-Fi network).
- Restart both your modem/router and the N300 device.

8.4 Poor Signal Strength or Coverage

- Adjust the physical orientation of the N300 device to optimize signal direction.
- Relocate the device to a more central position relative to the desired coverage area.
- Minimize physical obstructions (walls, large metal objects) between the N300 and client devices.
- Ensure the device is not too far from the main router if operating in Repeater mode.

Access Stable Signal Wherever You Are



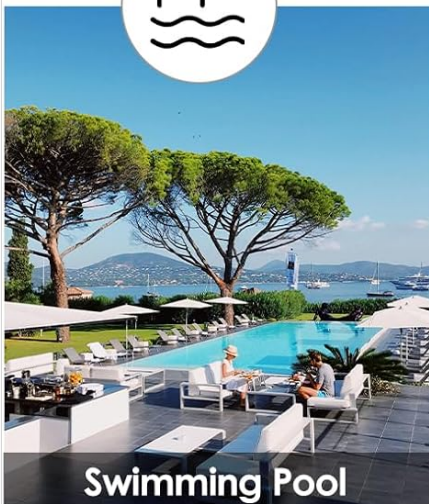
Yard



Park



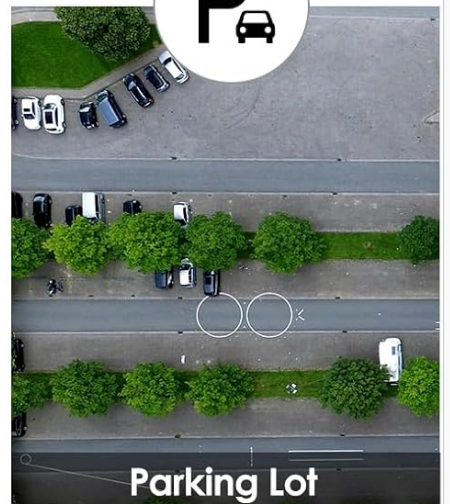
Outdoor Cafe



Swimming Pool



Playground



Parking Lot

Image: Various outdoor scenarios where the WAVLINK N300 can provide stable signal coverage, including yards, parks, outdoor cafes, swimming pools, playgrounds, and parking lots.

9. WARRANTY AND SUPPORT

WAVLINK products typically come with a limited warranty. Please refer to the warranty card included in your package or visit the official WAVLINK website for detailed warranty terms and conditions specific to your region.

For technical support, troubleshooting assistance, or to report issues, please contact WAVLINK customer support through their official website. You may find FAQs, driver downloads, and contact information on their support pages.

When contacting support, please have your product model (N300) and purchase information ready.

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

Anonymous

Email

you@example.com

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