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WAVLINK WL-WN570HA1-EU

Wavlink AC600 Outdoor Dual-Band WiFi Repeater User Manual

Model: WL-WN570HA1-EU

1. Introduction

This manual provides comprehensive instructions for the installation, configuration, and operation of your Wavlink AC600 Outdoor Dual-Band WiFi Repeater. This device is designed to extend your wireless network coverage outdoors, offering reliable connectivity in various environments.
The Wavlink AC600 supports dual-band Wi-Fi (2.4 GHz and 5 GHz) and multiple operating modes, including Access Point, Repeater, Router, and WISP, to meet diverse networking needs. Its robust, weatherproof design ensures performance in challenging outdoor conditions.

2. Package Contents

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

- 1 x Wavlink AC600 WiFi Router/Access Point
- 2 x Detachable Antennas
- 1 x Power Adapter
- 1 x Passive PoE Converter
- 1 x RJ-45 Network Cable
- 1 x Main Body Holder
- 1 x Screw Accessory Kit
- 2 x Cable Ties
- 1 x Quick Installation Guide

3. Product Overview

The Wavlink AC600 is a high-performance outdoor Wi-Fi solution designed for extending network coverage. Key features include:

- **Dual-Band Connectivity:** Supports 2.4 GHz (up to 150 Mbps) and 5 GHz (up to 433 Mbps) for a combined speed of up to 600 Mbps.

- **Passive PoE Support:** Power over Ethernet functionality allows for flexible deployment and remote device reset.
- **Weatherproof Design:** Features an IP65-rated enclosure, making it suitable for outdoor use in various weather conditions. It also includes integrated 15kV ESD and 4KV lightning protection.
- **Multiple Operating Modes:** Functions as an Access Point, Router, Repeater, or WISP, providing versatility for different network setups.
- **Extended Range:** Designed to provide Wi-Fi coverage up to 100 meters, ideal for large outdoor areas.

4. Installation

Follow these steps to physically install your Wavlink AC600 device.

4.1. Cable Connection

1. Pass the RJ45 network cable through the spiral cover.
2. Pass the RJ45 network cable through the rubber seal.
3. Pass the RJ45 network cable through the main body holder.
4. Connect the RJ45 cable to the RJ45 port on the device.
5. Tighten the main body holder to secure the device.
6. Insert the rubber seal into the holder to ensure a waterproof connection.
7. Secure the spiral cover by screwing it on tightly.

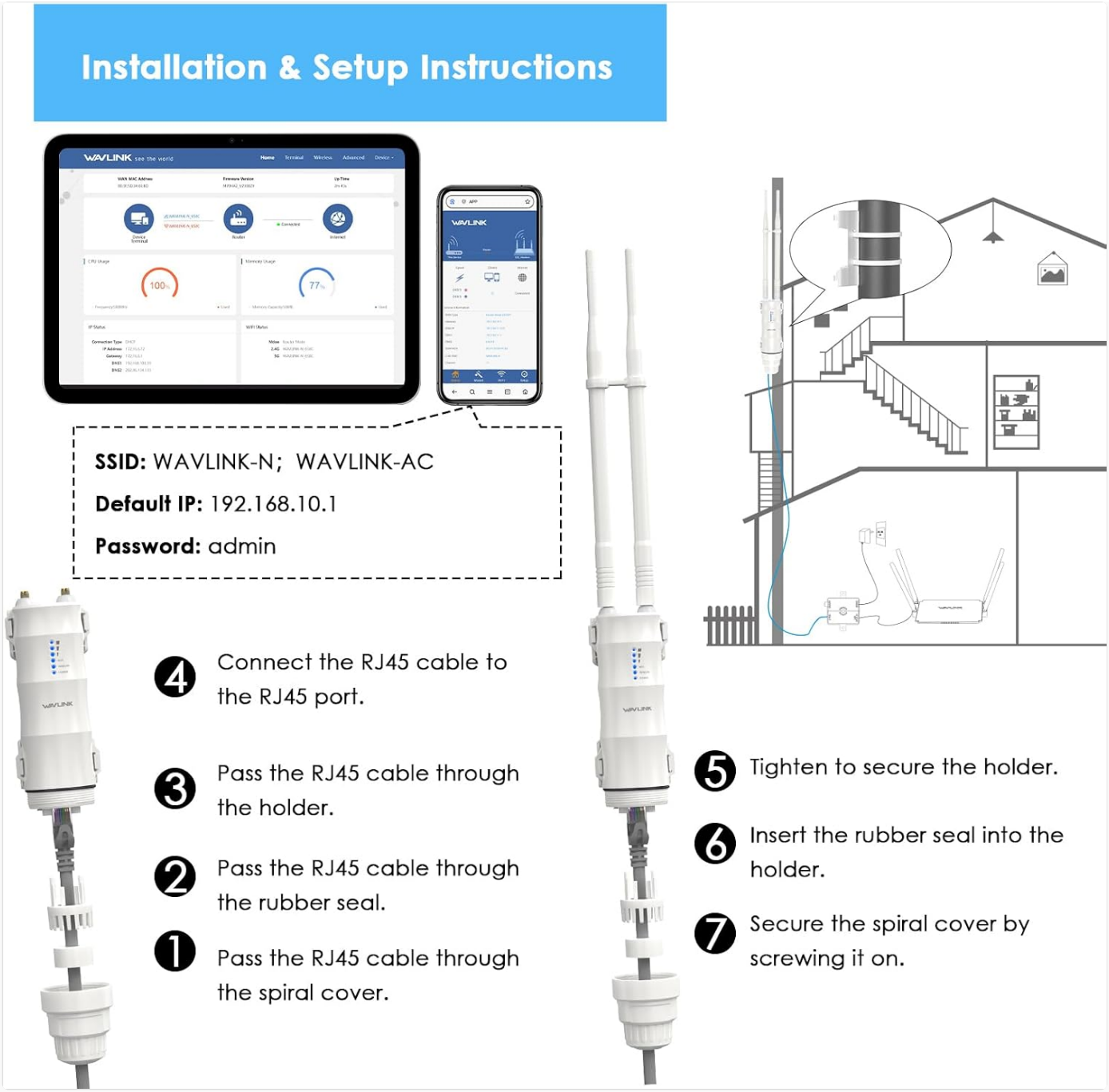


Figure 1: RJ45 Cable Connection and Device Assembly Steps. This diagram illustrates the sequence for passing the RJ45 cable through the protective components and connecting it to the device, followed by securing the device with its holder and seals.

4.2. Mounting Options

The Wavlink AC600 offers flexible deployment options for various outdoor scenarios:

- **Pole Mounting:** Use the provided cable ties and holder to secure the device to a pole.
- **Wall Mounting:** Use the screw accessory kit to mount the device securely to a wall.

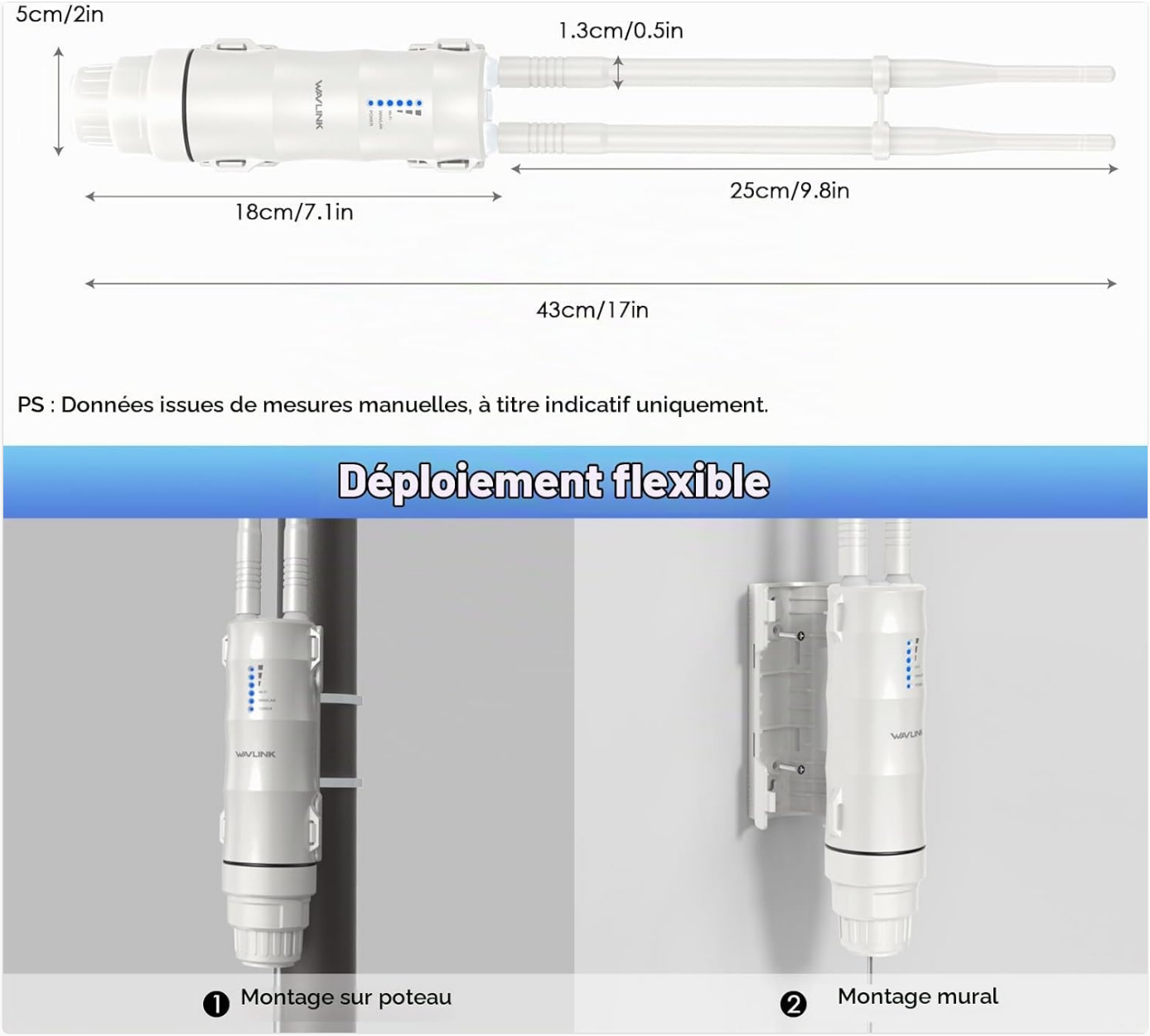


Figure 2: Flexible Deployment. This image displays two common mounting methods: attaching the device to a pole and mounting it directly onto a wall, demonstrating its adaptability for outdoor installation.

5. Initial Setup and Configuration

After physical installation, configure your device using the web management interface.

5.1. Default Access Information

- **Default Wi-Fi Network Names (SSID):** WAVLINK-N (for 2.4 GHz), WAVLINK-AC (for 5 GHz)
- **Default IP Address:** 192.168.10.1
- **Default Login Password:** admin

Connect your computer or mobile device to one of the default Wi-Fi networks (WAVLINK-N or WAVLINK-AC) or directly via an Ethernet cable to the PoE converter's LAN port. Open a web browser and enter the default IP address (192.168.10.1) to access the login page. Enter 'admin' as the password.

5.2. Web Management Interface

The web management interface provides a suite of tools for IT managers, installers, and network administrators to manage and maintain wireless networks. It is compatible with Windows, Mac OS X, and Linux operating systems.



Figure 3: Web Management System. This screenshot shows the user interface for configuring and monitoring the Wavlink AC600, providing access to various network settings and status information.

Important: For Repeater mode, some users have reported issues with long Wi-Fi passwords from the main router. If you encounter connection problems in Repeater mode, try shortening your main router's Wi-Fi password.

6. Operating Modes

The Wavlink AC600 supports four primary operating modes to suit different network requirements:

- **Access Point (AP) Mode:** Connects to a wired network and broadcasts a wireless signal, allowing wireless devices to connect. This mode also includes Client and Client Repeater sub-modes.
- **Repeater Mode:** Extends the coverage of an existing wireless network by receiving the signal and re-transmitting it.
- **Router Mode:** Functions as a primary router, connecting to an internet source (e.g., modem) and distributing network access to connected devices.
- **WISP Mode:** Connects wirelessly to an Internet Service Provider (ISP) access point and shares the internet connection with local wired and wireless clients.

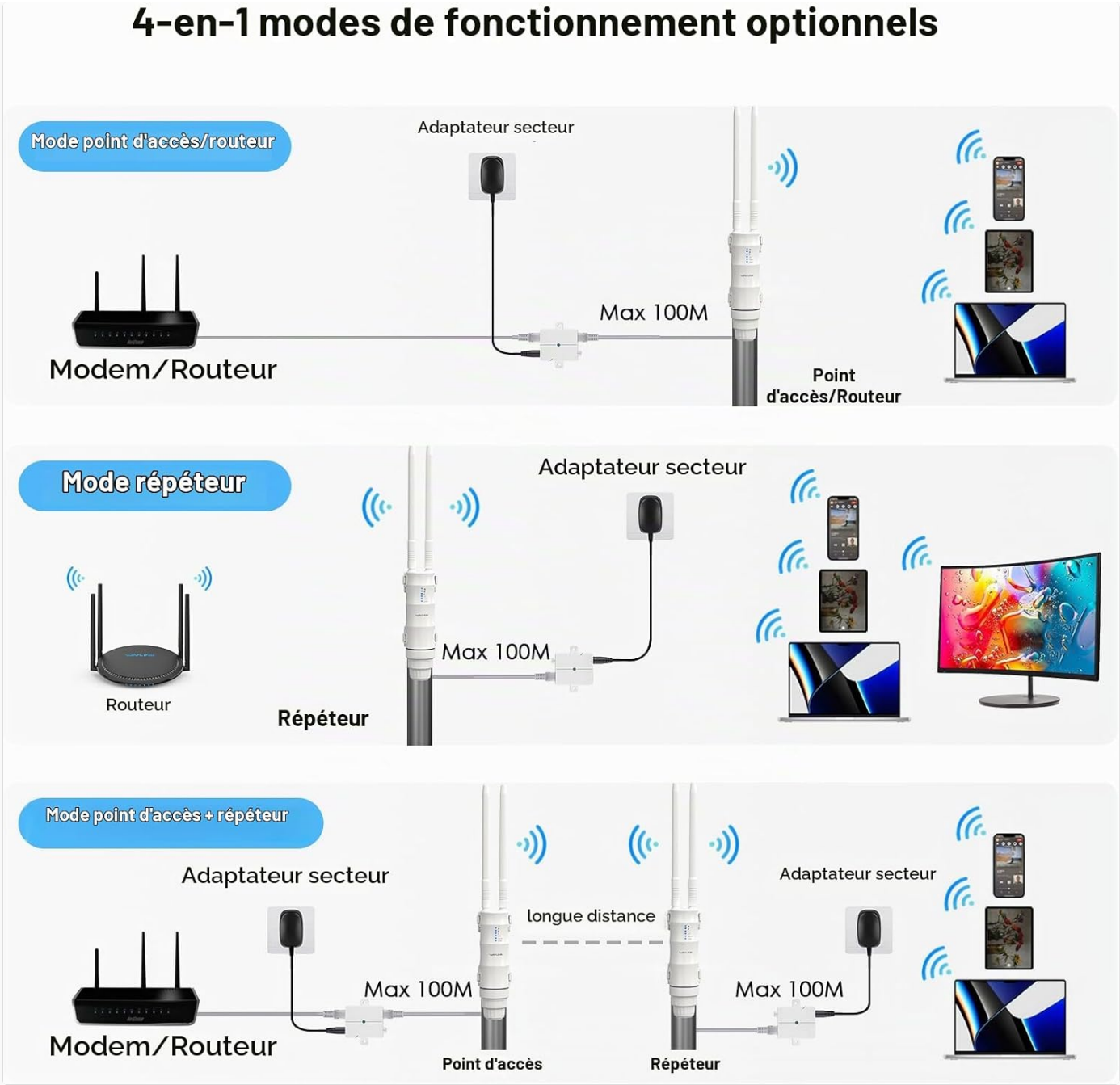


Figure 4: 4-in-1 Optional Operating Modes. This graphic visually explains how the Wavlink AC600 can be configured for different network roles, including extending an existing network or creating a new one.

7. Maintenance

To ensure optimal performance and longevity of your Wavlink AC600, follow these maintenance guidelines:

- **Regular Cleaning:** Periodically wipe the device's exterior with a soft, dry cloth to remove dust and dirt. Do not use liquid cleaners or aerosols.
- **Firmware Updates:** Check the official Wavlink website for the latest firmware updates. Keeping the firmware updated can improve performance, add new features, and enhance security.
- **Environmental Protection:** Although the device is IP65 rated, ensure it is mounted securely and that all cable connections are properly sealed to prevent water ingress.
- **Power Cycle:** If you experience network issues, try power cycling the device by unplugging it from the power source for 10 seconds and then plugging it back in.

8. Troubleshooting

Here are solutions to common issues you might encounter:

Problem	Solution
Cannot access the web management interface (192.168.10.1).	• Ensure your device is connected to the Wavlink's Wi-Fi or via Ethernet. • Verify your computer's IP settings are set to obtain an IP address automatically (DHCP). • Try a different web browser. • Reset the device to factory defaults (refer to the Quick Installation Guide for instructions).
No internet access after setup.	• Check the physical cable connections. • Ensure the correct operating mode is selected and configured properly. • Verify the main router has an active internet connection. • In Repeater mode, ensure the password for the main router's Wi-Fi is correct and consider shortening it if it's very long.
Poor Wi-Fi signal or limited range.	• Adjust the position and orientation of the device and its antennas. • Minimize obstacles (walls, metal objects) between the device and client devices. • Ensure the device is placed within the optimal range of the main router if in Repeater mode.

9. Specifications

Feature	Detail
Brand	WAVLINK
Model Number	WL-WN570HA1-EU
Wireless Standard	802.11ac
Frequency Band Class	Dual Band (2.4 GHz & 5 GHz)
Data Transfer Rate	Up to 433 Mbps (5 GHz), 150 Mbps (2.4 GHz)
Range	Up to 100 meters
Special Features	Access Point Mode, Passive PoE, IP65 Weatherproof, 15kV ESD & 4KV Lightning Protection
Input Interface	Ethernet, Wireless
Compatible Devices	Router
Item Weight	1.08 Pounds (approx. 0.49 kg)



Figure 5: Outdoor Durability. This image details the robust construction of the Wavlink AC600, emphasizing its IP67 waterproof rating, wide operating temperature range (-40°C to 50°C), 15KV ESD and 4KV lightning protection, and resistance to dust ingress, making it suitable for any outdoor scenario.



Figure 6: Enhanced Outdoor Connectivity. This visual demonstrates the device's capability to provide strong 5GHz and 2.4GHz Wi-Fi signals, supporting 32 to 64 connected devices, offering a range of 100-150 meters, and utilizing 7dBi antennas for improved coverage.

10. Warranty and Support

10.1. Warranty Information

The Wavlink AC600 Outdoor Dual-Band WiFi Repeater comes with a**2-year warranty** from the date of purchase. This warranty covers manufacturing defects and malfunctions under normal use. Please retain your proof of purchase for warranty claims.
The warranty does not cover damage caused by:

- Improper installation or operation.
- Unauthorized modifications or repairs.
- Accidents, abuse, or neglect.
- Natural disasters or acts of God.

10.2. Technical Support

For technical assistance, troubleshooting, or further inquiries, please visit the official WAVLINK website or contact their customer support. You can often find FAQs, updated drivers, and firmware on their support pages.
WAVLINK Official Website: www.wavlink.com

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