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WAVLINK AC600

WAVLINK AC600 Outdoor Access Point User Manual

Model: AC600 Dual Band Outdoor Wireless AP/Repeater

1. Introduction

This manual provides detailed instructions for the installation, configuration, and operation of your WAVLINK AC600 Dual Band Outdoor Access Point. This device is designed to provide extended Wi-Fi coverage in outdoor environments, supporting various operating modes to meet diverse networking needs.

Key Features:

- **Ultra-High Power & Extended Range:** 1000mW chipset with dual-polarized 7dBi antennas for stable coverage up to 100-150m.
- **Versatile PoE Connectivity:** Supports Active PoE (802.3at/af) and Passive PoE for flexible power and data transmission.
- **Weatherproof Enclosure:** IP67-rated housing, operating from -20°C to 50°C (-4°F to 122°F), with 15KV ESD/4KV surge shielding.
- **Multiple Operating Modes:** Router, AP, Repeater, and Fit AP modes.
- **Dual-Band Speed Optimization:** 2.4G (150Mbps) for long-range penetration and 5G (433Mbps) for high-speed, low-latency connections.

2. Package Contents

Verify that all items listed below are present in your package. If any items are missing or damaged, please contact customer support.

- 1 x AC600 Dual Band Outdoor Access Point
- 2 x Omni-directional Antennas
- 1 x RJ-45 Network Cable
- 1 x POE Converter
- 1 x Power Adapter



Image: Contents of the WAVLINK AC600 Outdoor Access Point package, including the main unit, antennas, network cable, PoE converter, and power adapter.

3. Product Overview

The WAVLINK AC600 features a robust design suitable for outdoor deployment. Understanding its components and indicators is crucial for proper operation.

Device Layout:





Image: Front view of the WAVLINK AC600 Outdoor Access Point with its two omni-directional antennas attached, showing the LED indicators and WAVLINK branding.

LED Indicators:

- **Power LED:** Indicates power status.
- **WAN/LAN LED:** Indicates network activity on the WAN/LAN port.
- **Wi-Fi LED:** Indicates wireless network activity.

Dimensions:

The device measures approximately 18cm (7.1in) in length and 5cm (2in) in width. The antennas are approximately 25cm (9.8in) long. Total length with antennas is about 43cm (17in).



Image: Diagram illustrating the physical dimensions of the WAVLINK AC600 Outdoor Access Point, including the main unit and attached antennas.

4. Setup and Installation

Proper installation ensures optimal performance and durability of the outdoor access point.

4.1 Mounting Options:

The device supports both pole and wall mounting. Choose a location that provides clear line-of-sight to the desired coverage area and is accessible for cable routing.

- **Pole Mounting:** Use the provided straps to secure the device to a pole.
- **Wall Mounting:** Use the included mounting bracket and screws to attach the device to a wall.



Image: Illustrations showing the flexible deployment options for the WAVLINK AC600, specifically demonstrating pole mounting and wall mounting configurations.

4.2 Cable Connection:

Follow these steps to connect the RJ45 cable and ensure a waterproof seal:

1. Pass the RJ45 cable through the spiral cover.
2. Pass the RJ45 cable through the rubber seal.
3. Pass the RJ45 cable through the holder.
4. Connect the RJ45 cable to the RJ45 port on the device.
5. Tighten the holder to secure it.
6. Insert the rubber seal into the holder.
7. Secure the spiral cover by screwing it on.

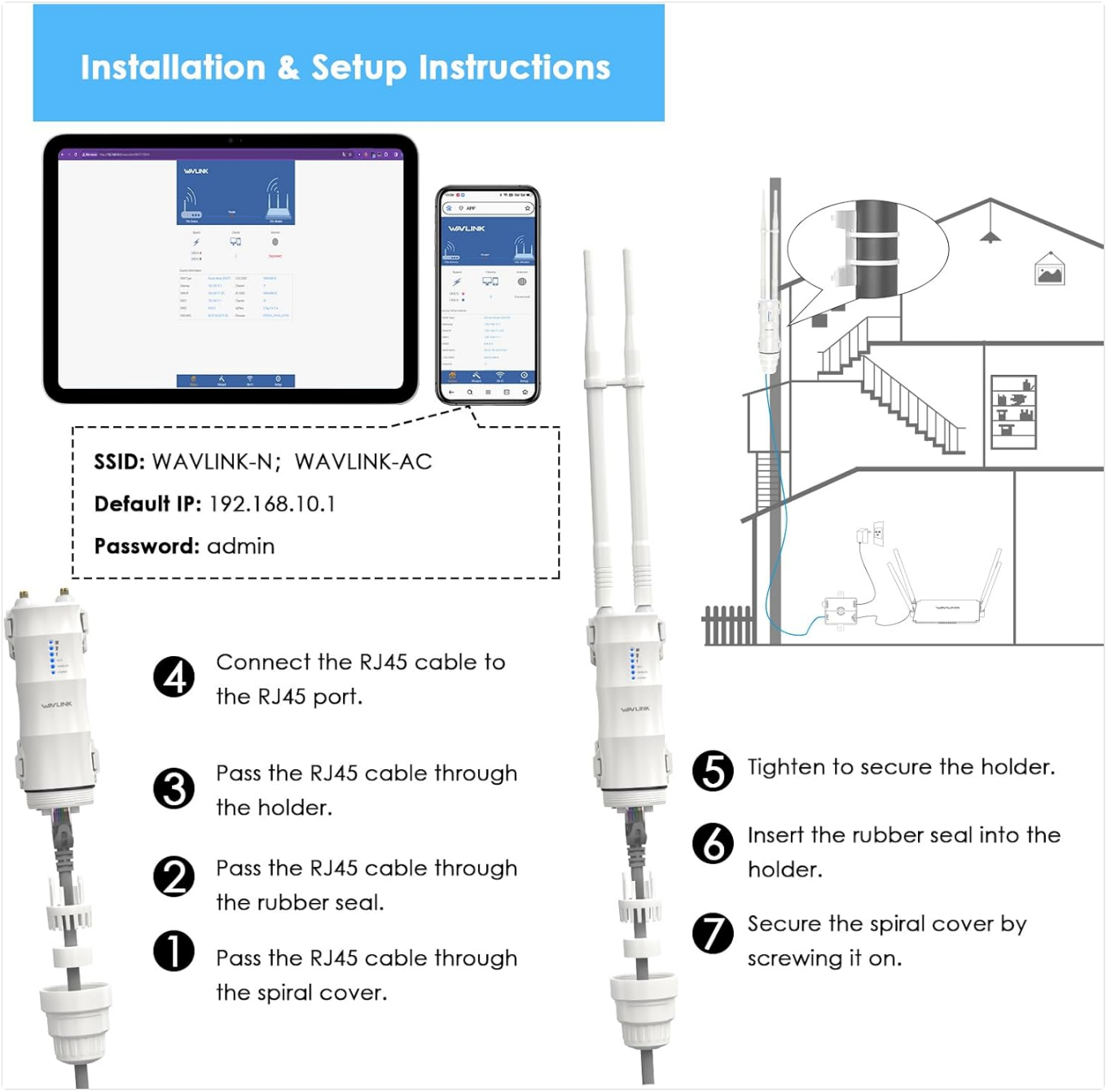

Image: Step-by-step diagram showing how to properly route and connect the RJ45 network cable to the WAVLINK AC600 device, ensuring a secure and waterproof connection.

4.3 Power over Ethernet (PoE) Connection:

The WAVLINK AC600 supports both Active PoE (802.3at/af) and Passive PoE. The included PoE converter is designed for indoor use and is not waterproof.

- Connect one end of the RJ45 network cable from the access point to the 'PoE' port on the PoE converter.
- Connect another RJ45 network cable from your router/modem to the 'LAN' port on the PoE converter.
- Connect the power adapter to the PoE converter and plug it into a power outlet.

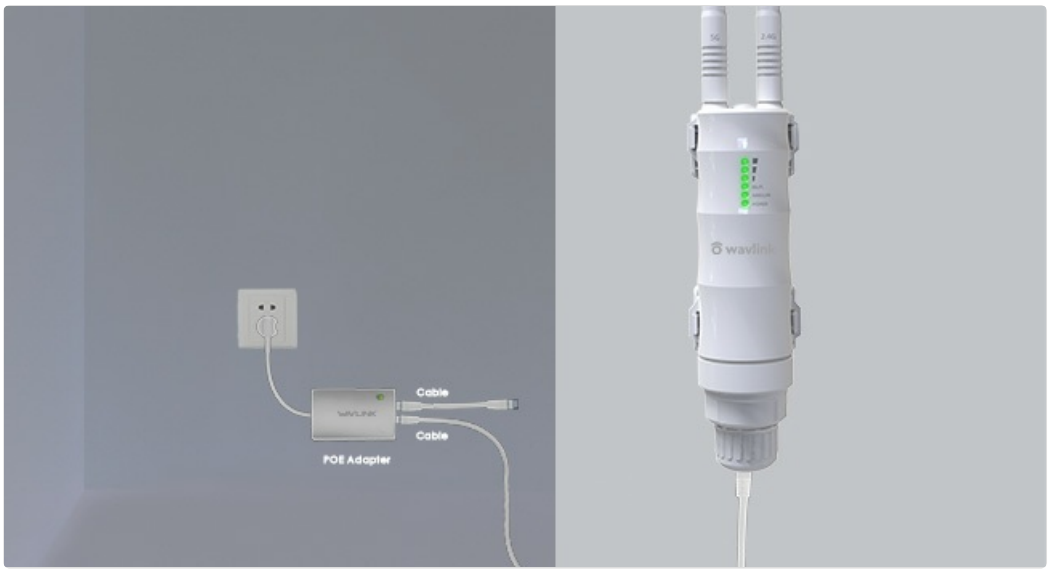

Image: Diagram illustrating the connection of the WAVLINK AC600 to a power source and network using the PoE converter. The access point is connected via an Ethernet cable to the PoE converter, which is then connected to a power adapter and a router.

4.4 Initial Configuration:

After physical installation and power-up, configure the device via its web interface.

- **Default SSID:** WAVLINK-N (for 2.4GHz) and WAVLINK-AC (for 5GHz)
- **Default IP Address:** 192.168.10.1
- **Default Password:** admin

Connect your computer to the device via an Ethernet cable or wirelessly to one of the default SSIDs. Open a web browser and enter the default IP address to access the configuration page.

5. Operating Modes

The WAVLINK AC600 supports multiple operating modes to adapt to various network requirements.

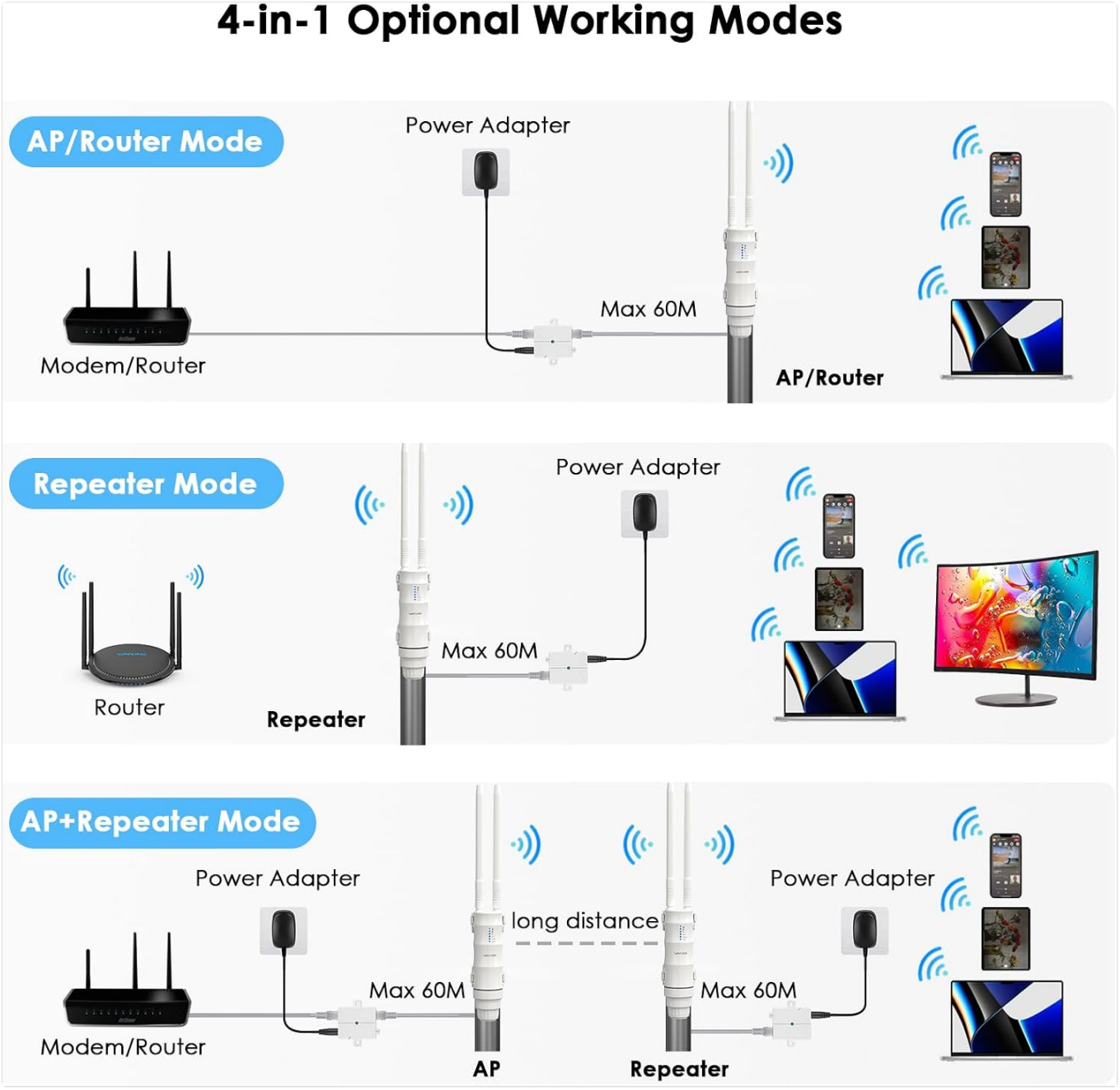

Image: Diagram illustrating the four optional working modes of the WAVLINK AC600: AP/Router Mode, Repeater Mode, and AP+Repeater Mode, showing how the device integrates into different network setups.

5.1 Router Mode:

In Router Mode, the device acts as a primary Wi-Fi router, converting a wired internet connection into a wireless network. This is suitable for scenarios where you need to create a new Wi-Fi network from a modem.

5.2 Access Point (AP) Mode:

In AP Mode, the device connects to an existing wired network and broadcasts a wireless signal, extending the coverage of your current network. This is ideal for adding Wi-Fi to areas without wireless access or for expanding an existing Wi-Fi network's range.

5.3 Repeater Mode:

In Repeater Mode, the device wirelessly connects to an existing Wi-Fi network and re-broadcasts the signal, extending its range. This mode is useful for boosting weak Wi-Fi signals in areas far from the main router.

5.4 Fit AP Mode:

Fit AP Mode is designed for centralized management by a WAVLINK AC Controller (sold separately). This mode is typically used in larger deployments like hotels or campuses where multiple access points need to be managed from a single interface.

6. Configuration Interface

To configure the WAVLINK AC600, access its web-based management interface.

6.1 Accessing the Interface:

1. Ensure your computer is connected to the WAVLINK AC600 (either via Ethernet or its default Wi-Fi SSID).
2. Open a web browser (e.g., Chrome, Firefox, Edge).
3. Enter the default IP address 192.168.10.1 in the address bar and press Enter.
4. Enter the default username (usually 'admin') and password ('admin') when prompted.

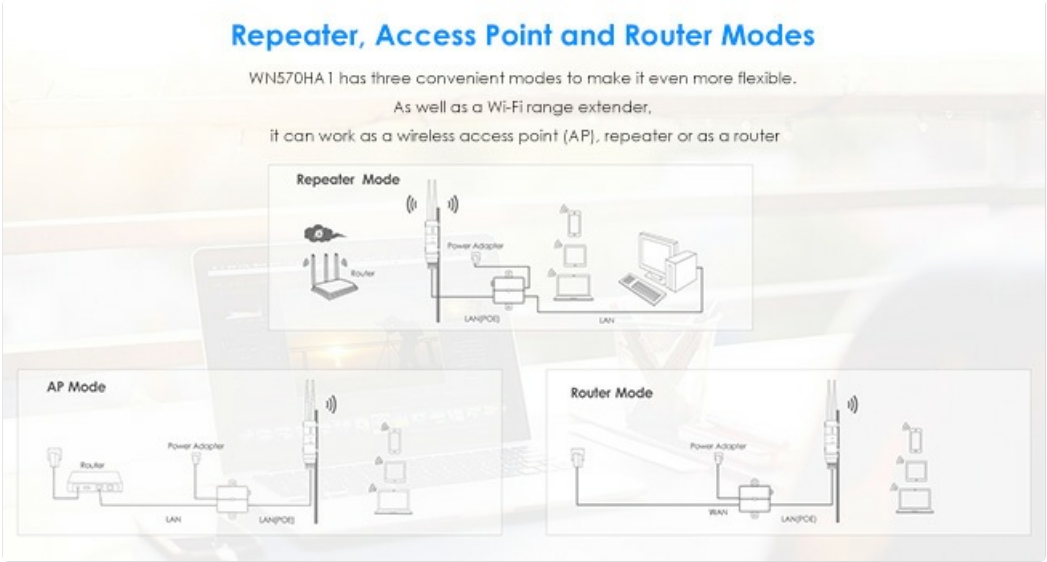

Image: Screenshot of the WAVLINK AC600 web-based configuration interface, showing network status, connected clients, and various settings options.

6.2 Basic Settings:

Within the interface, you can configure:

- **Operation Mode:** Select Router, AP, Repeater, or Fit AP mode.
- **Wireless Settings:** Change SSID, security type (WPA2 recommended), and password for both 2.4GHz and 5GHz bands.
- **Network Settings:** Configure IP address, subnet mask, and DHCP server settings.
- **System Tools:** Update firmware, backup/restore configuration, change login password, and reboot the device.

7. Maintenance

To ensure the longevity and optimal performance of your WAVLINK AC600, follow these maintenance guidelines.

7.1 Weather Protection:

The device features an IP67-rated weatherproof enclosure, protecting it from dust, rain, and extreme temperatures (-20°C to 50°C). It also includes 15KV ESD and 4KV surge shielding for lightning protection.



Image: Graphic highlighting the weatherproof features of the WAVLINK AC600, including IP67 waterproof enclosure, wide operating temperature range, 15KV ESD/4KV lightning protection, and dust ingress prevention, shown against a stormy outdoor backdrop.

Note: The PoE converter is not waterproof and must be installed indoors.

7.2 Cleaning:

Periodically inspect the device for any dirt or debris accumulation. Use a soft, dry cloth to clean the exterior. Do not use liquid cleaners or solvents.

7.3 Firmware Updates:

Check the WAVLINK official website periodically for firmware updates. Updating the firmware can improve performance, add new features, and enhance security. Follow the instructions provided with the firmware update package carefully.

8. Troubleshooting

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

8.1 No Power:

- Ensure the power adapter is securely connected to the PoE converter and a working power outlet.
- Verify the Ethernet cable from the PoE converter to the access point is properly connected.
- Check the Power LED on the device. If it's off, try a different power outlet or contact support.

8.2 No Wi-Fi Signal:

- Check the Wi-Fi LED on the device. If it's off or blinking abnormally, there might be an issue with the wireless module.
- Ensure the device is configured in an appropriate operating mode (AP, Router, Repeater).
- Verify wireless settings (SSID, password, channel) in the web interface.

8.3 Slow Connection Speed:

- Ensure the device is placed in an optimal location with minimal obstructions.
- Check for interference from other wireless devices.
- Verify the internet connection speed from your main router/modem.
- Consider switching Wi-Fi channels in the configuration interface to avoid congestion.

8.4 Cannot Access Web Interface:

- Ensure your computer's IP address is in the same subnet as the device (e.g., if device is 192.168.10.1, set computer to 192.168.10.x).
- Try clearing your browser's cache or using a different browser.
- If the IP address has been changed and forgotten, a factory reset may be necessary.

8.5 Factory Reset:

To perform a factory reset, locate the reset button on the device (usually a small pinhole). With the device powered on, press and hold the reset button for approximately 10-15 seconds until the LEDs flash. The device will then reboot with factory default settings.

9. Specifications

Feature	Specification

Model	AC600
Wireless Standards	IEEE 802.11ac/a/b/g/n
Frequency Bands	2.4GHz and 5GHz (Dual Band)
Data Rate (Max)	2.4GHz: 150Mbps, 5GHz: 433Mbps
Antennas	2 x 7dBi Omni-directional Antennas
Output Power	Up to 1000mW
PoE Support	Active PoE (802.3at/af) & Passive PoE
Weatherproof Rating	IP67
Operating Temperature	-20°C to 50°C (-4°F to 122°F)
ESD/Surge Protection	15KV ESD / 4KV Lightning Protection
Dimensions (Device)	18cm x 5cm (7.1in x 2in)
Item Weight	1.08 pounds

10. Warranty and Support

WAVLINK products come with a manufacturer's warranty. Please refer to the warranty card included in your package or visit the official WAVLINK website for specific warranty terms and conditions.

Customer Support:

For technical assistance or any questions regarding your WAVLINK AC600 Outdoor Access Point, please contact our support team:

- **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.

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