AdaLov APM6-AX3000

AdaLov AX3000 Outdoor Wireless Access Point User Manual

Model: APM6-AX3000

Brand: AdaLov

1. INTRODUCTION

The AdaLov AX3000 Outdoor Wireless Access Point is designed to provide high-speed, stable Wi-Fi 6 connectivity in outdoor environments. Featuring dual-band operation (2.4GHz and 5.8GHz), Power over Ethernet (PoE) support, and an IP67-rated weatherproof enclosure, this device is suitable for extending network coverage to large outdoor areas such as yards, farms, and campsites.

This manual provides detailed instructions for the installation, operation, and maintenance of your AX3000 Outdoor Wireless Access Point.

Video 1: Overview of the AdaLov AX3000 Outdoor Wireless Access Point, highlighting its long-range, dual-band Wi-Fi 6 capabilities.

2. PACKAGE CONTENTS

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

- 1x Wi-Fi Access Point (APM6-AX3000)
- 5x External Antennas (3x 5.8GHz, 2x 2.4GHz)
- 1x Network Cable
- 1x PoE Power Adapter
- 1x RJ45 Waterproof Head
- 2x Silicone Pads
- 2x Stainless Steel Cable Ties
- 1x Screw Kit
- 1x Wrench
- 1x Instruction Manual

What's in the Box?

- ✔ 1x Wi-Fi Access Point
- ✔ 5x External Antennas
- ✔ 2x Stainless Steel Cable Ties
- ✔ 1x PoE Power Adapter
- ✔ 1x RJ45 Waterproof Head
- ✔ 2x Silicone Pads
- ✔ 1x Ethernet Cable
- ✔ 1x Screw Kit
- ✔ 1x Wrench
- ✔ 1x User Manual

Image 1: All components included in the AdaLov AX3000 Outdoor Wireless Access Point package.

## 3. SETUP AND INSTALLATION

Follow these steps to set up your AdaLov AX3000 Outdoor Wireless Access Point.

Video 2: Unboxing and setup guide for the Wireless Access Point, demonstrating antenna installation and initial connections.

3.1 Antenna Installation

1. Identify the 2.4GHz and 5.8GHz antennas. The antennas are labeled at their base.

2. Carefully screw the 2.4GHz antennas into the ports marked "2.4G" on the access point.

3. Carefully screw the 5.8GHz antennas into the ports marked "5.8G" on the access point.

4. Ensure all antennas are securely tightened to prevent signal loss and moisture ingress.
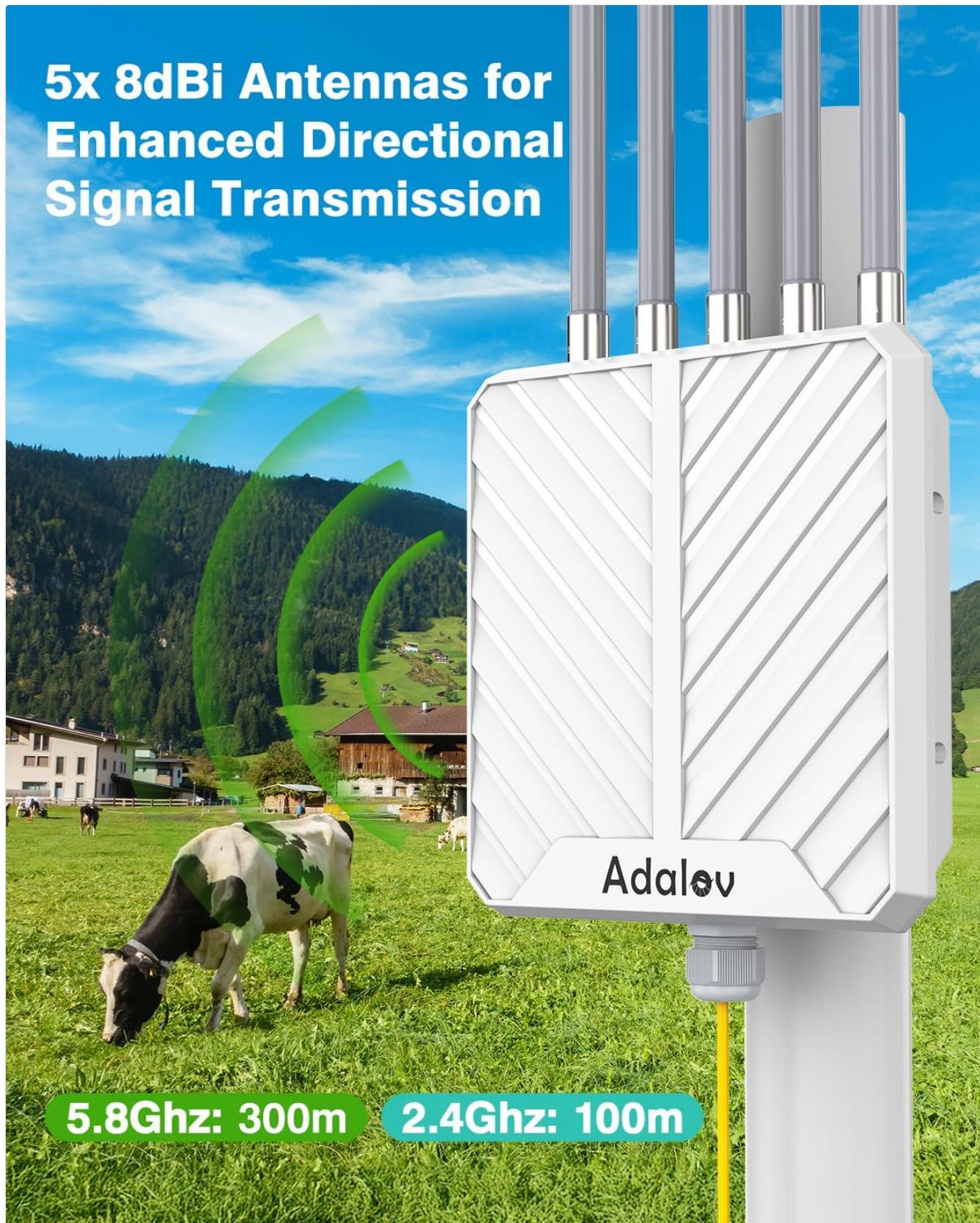
Image 2: Correct installation of the 2.4GHz and 5.8GHz antennas onto the access point.

3.2 Power over Ethernet (PoE) Connection

The AX3000 supports IEEE 802.3af/at PoE and passive 48V PoE, allowing power and data transmission over a single Ethernet cable.

1. Connect one end of the Ethernet cable to the LAN/WAN port on the access point.
2. Attach the RJ45 Waterproof Head to the Ethernet cable and the access point's port to ensure weather protection.
3. Connect the other end of the Ethernet cable to the PoE port on the included PoE Power Adapter or a compatible PoE switch.
4. Plug the PoE Power Adapter into a power outlet. The access point will power on automatically.

Image 3: Illustration of the PoE connection process, including the waterproof RJ45 head.

3.3 Mounting Options

The access point can be mounted on a pole or a wall using the provided accessories.

- **Pole Mounting:** Use the stainless steel cable ties to secure the access point to a pole.
- **Wall Mounting:** Use the screw kit to attach the access point to a wall.

Image 4: Examples of pole mounting and wall mounting for the access point.

3.4 Initial Configuration

After physical installation and power-up, access the device's web interface for initial configuration. Refer to the Quick Start Guide for default IP address and login credentials.

4. OPERATING MODES

The AdaLov AX3000 supports multiple operating modes to suit various network requirements.
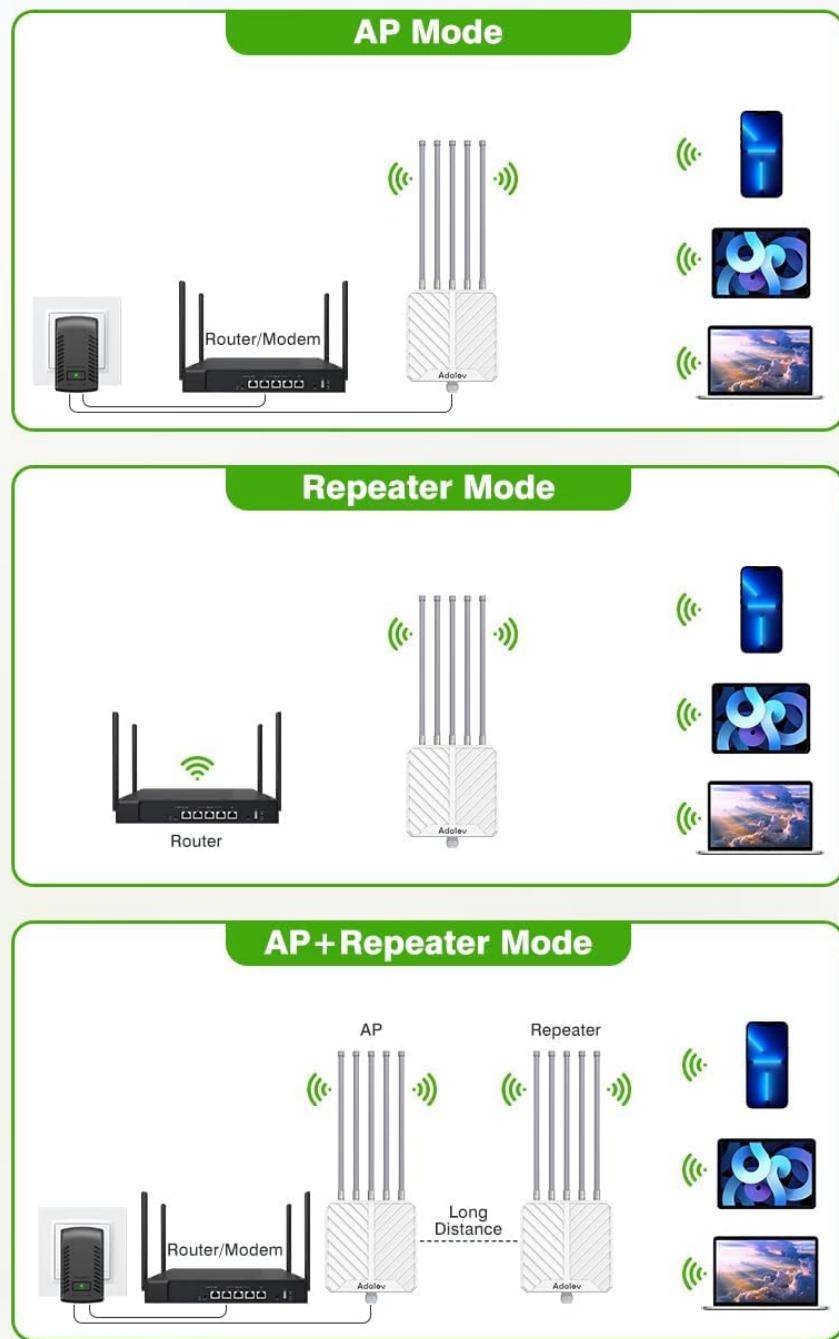
Image 5: Overview of the 3-in-1 working modes supported by the access point.

4.1 AP Mode (Access Point)

In AP mode, the device converts a wired network connection into a wireless one, acting as a central hub for Wi-Fi devices. This is ideal for creating a new wireless network or adding Wi-Fi capabilities to an existing wired network.

Image 6: AP Mode configuration, converting a wired network to wireless.

4.2 Repeater Mode

In Repeater mode, the device extends the coverage of an existing wireless network. It receives the Wi-Fi signal from your main router and re-broadcasts it, effectively eliminating dead zones and expanding the signal range.

Image 7: Repeater Mode configuration, extending existing Wi-Fi coverage.

4.3 AP + Repeater Mode

This mode combines the functionalities of both AP and Repeater modes, allowing for flexible network expansion and dead zone elimination over long distances.

Image 8: AP + Repeater Mode configuration for extended range.

5. SPECIFICATIONS AND FEATURES

The AdaLov AX3000 Outdoor Wireless Access Point offers advanced features for robust outdoor connectivity.

- **Ultra-Fast Wi-Fi 6 Speeds:** AX3000 dual-band technology with speeds up to 2402Mbps (5GHz) and 573Mbps (2.4GHz).
- **Extended Coverage:** 5x 8dBi high-gain omnidirectional antennas and Beamforming technology provide 200–300m long-range coverage.
- **High Device Capacity:** Supports connectivity for over 200 devices simultaneously.
- **All-Weather Performance:** IP67-rated waterproof, dustproof, and corrosion-resistant housing. Built-in 15kV ESD and 6kV lightning protection.
- **Flexible PoE:** Supports IEEE 802.3af/at/48V PoE and passive PoE for simplified installation up to 100 meters.
- **Advanced Wireless Technology:** Features MU-MIMO, Band Steering, and seamless roaming for optimized

network performance.

- **Gigabit Connectivity:** Dual Gigabit LAN/WAN ports (backward compatible with 10/1000 Mbps).

- **Security:** Supports WPA/WPA2/WPA3 wireless security protocols.

- **Operating Temperature:** -10°C to 70°C (14°F to 158°F).

- **Dimensions:** 17 x 12.8 x 3.4 inches.

- **Item Weight:** 4.85 pounds.
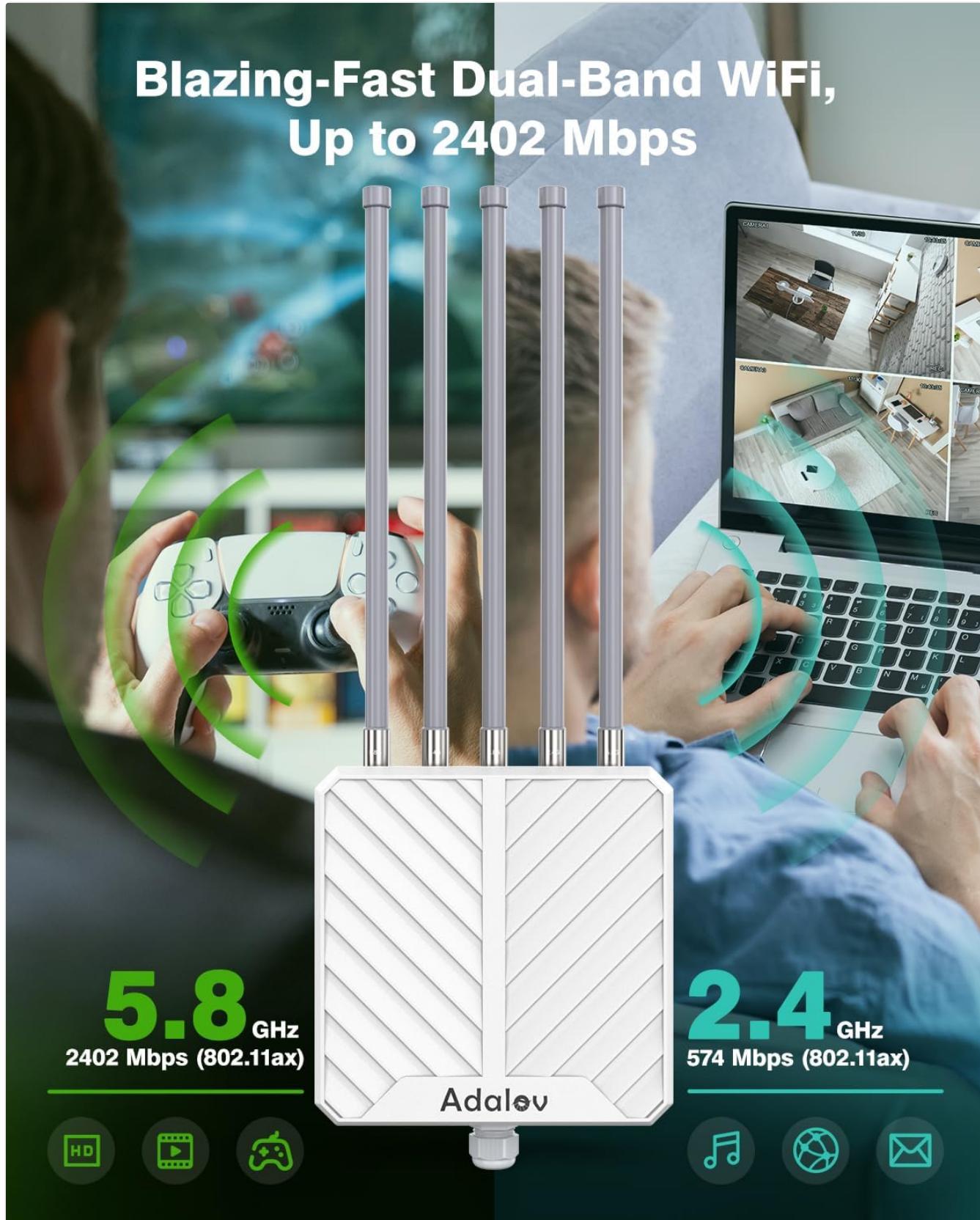
Image 9: Visual representation of the dual-band Wi-Fi 6 speeds.

Image 10: Features of the professional outdoor design, including weather resistance and protection.

6. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your access point.

- **Cleaning:** Periodically wipe the exterior of the device with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.
- **Cable Inspection:** Regularly check all cable connections, especially the Ethernet cable with the waterproof head, for any signs of wear, damage, or loose connections.
- **Antenna Check:** Ensure antennas remain securely tightened and are not obstructed.
- **Firmware Updates:** Check the manufacturer's website periodically for firmware updates. Updating the firmware can improve performance, add new features, and enhance security.

7. TROUBLESHOOTING

If you encounter issues with your AdaLov AX3000, refer to the following troubleshooting tips:

- **No Power:** Ensure the PoE adapter is correctly plugged into a working power outlet and the Ethernet cable is securely connected to both the adapter and the access point. Check the LED indicators on the PoE adapter.
- **No Internet Connection:** Verify that your main router has an active internet connection. Check the Ethernet cable connection between the access point and your router/PoE switch. Ensure the access point is configured correctly for its operating mode (AP or Repeater).
- **Weak Wi-Fi Signal or Limited Range:** Ensure antennas are correctly installed and tightened. Check for physical obstructions between the access point and client devices. Consider repositioning the access point for better line-of-sight. Verify that the access point is operating in the correct mode.
- **Cannot Access Web Interface:** Ensure your computer is connected to the network provided by the access point or your main router. Verify the IP address and login credentials. Try resetting the device to factory defaults (refer to the Quick Start Guide for reset instructions).
- **Device Reset:** To perform a factory reset, locate the reset button on the device (often a small pinhole). With the device powered on, press and hold the reset button for approximately 10 seconds until the indicator lights change, then release. The device will restart with factory default settings.

8. WARRANTY AND SUPPORT

Your AdaLov AX3000 Outdoor Wireless Access Point comes with a**12-month warranty** from the date of purchase. This warranty covers manufacturing defects and ensures the product functions as described under normal use.

AdaLov also provides **lifetime technical support** to assist you with any questions or issues you may encounter during the product's lifespan.

For warranty claims, technical assistance, or any other inquiries, please contact AdaLov customer support through the retailer where you purchased the product or visit the official AdaLov website for contact information.