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AdaLov AX3000

AdaLov AX3000 Outdoor WiFi 6 Extender User Manual

Model: AX3000

Introduction

The AdaLov AX3000 Outdoor WiFi 6 Extender is designed to provide robust and extended wireless network coverage in outdoor environments. Utilizing advanced Wi-Fi 6 (802.11ax) technology, this dual-band device offers high-speed connectivity and broad coverage, making it suitable for various outdoor applications such as farms, yards, campsites, and remote work setups. Its IP67 weatherproof rating, along with ESD and lightning protection, ensures reliable operation in diverse weather conditions. This manual provides essential information for the proper installation, configuration, and maintenance of your device.

Package Contents

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

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

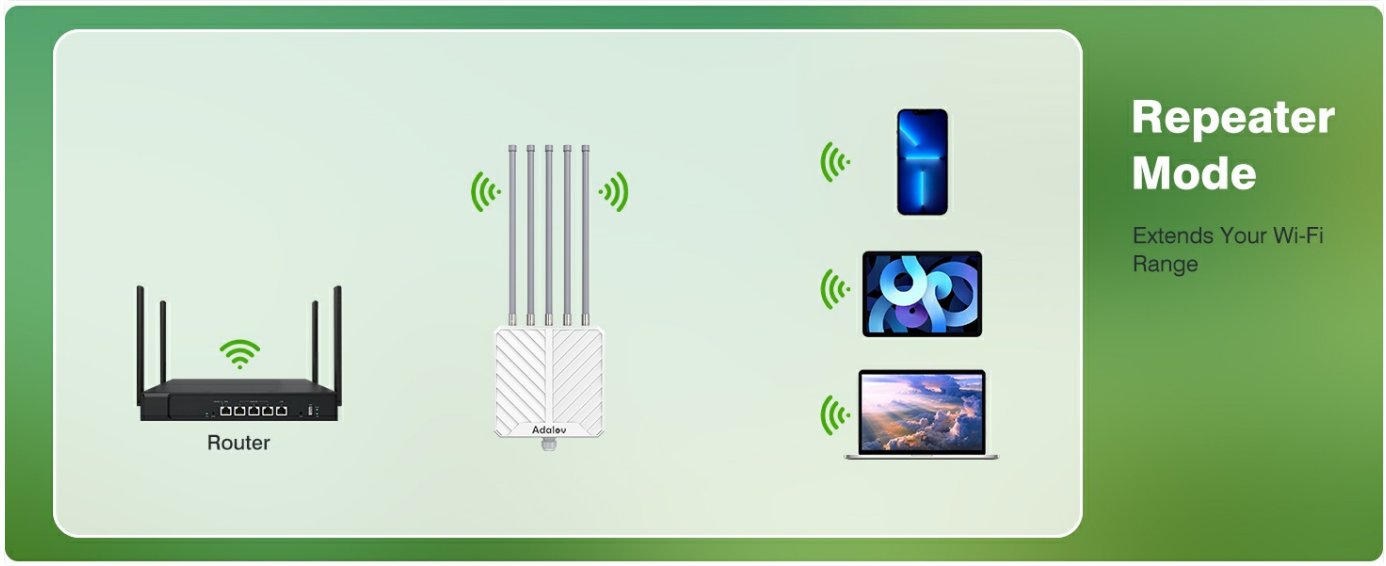


Image: All components included in the AdaLov AX3000 Outdoor WiFi 6 Extender package, including the access point, antennas, PoE adapter, cables, and mounting hardware.

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Video: An unboxing demonstration of the AdaLov AX3000 Outdoor WiFi 6 Extender, showing all included components and accessories.

Product Overview

The AdaLov AX3000 is a high-performance outdoor access point designed for robust and reliable wireless connectivity.

Key Features

- **AX3000 WiFi 6 Speed:** Supports dual-band speeds up to 3000Mbps (2402Mbps on 5GHz and 573Mbps on 2.4GHz) with 802.11ax technology.
- **Long Range Coverage:** Equipped with 5x 8dBi omni-directional detachable fiberglass antennas and two high-power amplifiers, providing up to 200-300m (radius) WiFi coverage and supporting over 200 connections.
- **Durable Outdoor Design:** IP67 waterproof enclosure, 15kV ESD protection, and 6kV lightning protection ensure operation in harsh weather conditions (-20°C to 50°C operating temperature).
- **Gigabit Ethernet Port:** Features a 1000/100/10Mbps Gigabit Ethernet port for high-speed wired connections.
- **Flexible PoE Power Supply:** Supports both 802.3AF/AT active PoE and passive PoE, allowing power and data transfer over a single Ethernet cable.
- **Multiple Operating Modes:** Functions as an Access Point (AP), Repeater, or AP+Repeater to suit various network requirements.
- **Enhanced Security:** Supports WPA3 wireless security protocols.
- **MU-MIMO Technology:** Improves efficiency in multi-device environments.



Image: The AdaLov AX3000 Outdoor WiFi 6 Extender unit with its five external antennas attached, showcasing its design.

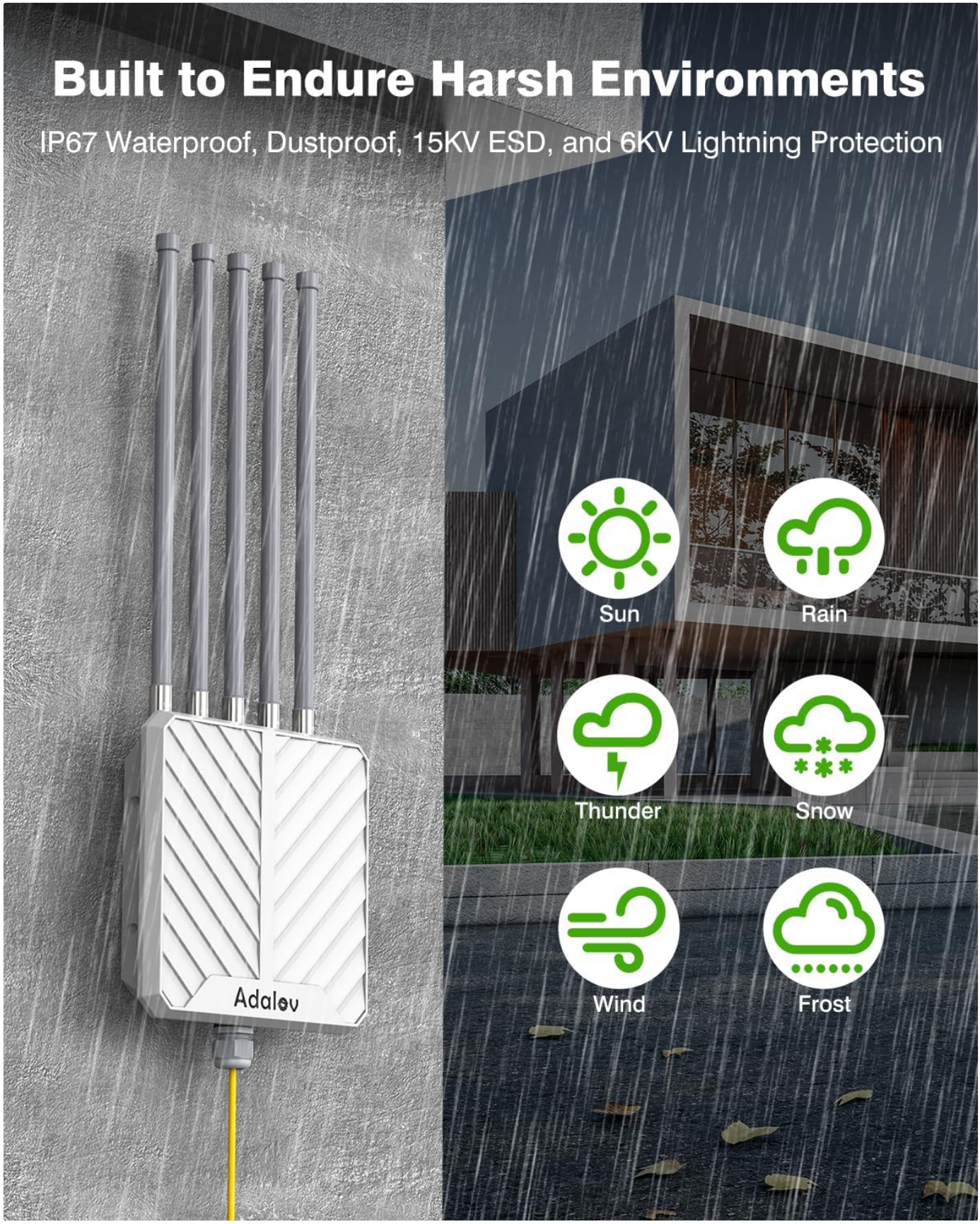


Image: The AdaLov AX3000 Extender depicted in different outdoor weather scenarios (sun, rain, thunder, snow, wind, frost), highlighting its IP67 weatherproof and protection features.

Setup and Installation

1. Antenna Installation

Carefully attach the five external antennas to the corresponding ports on the access point. Ensure that 2.4GHz antennas

are connected to 2.4G ports and 5.8GHz antennas are connected to 5.8G ports for optimal performance. The antennas are delicate; handle them with care to avoid damage.



Image: A close-up view of the antenna ports on the access point, labeled for 2.4G and 5.8G frequencies, and the corresponding antennas being screwed into place.

2. Ethernet Cable Connection

Connect one end of the Ethernet cable to the LAN/WAN port on the access point. Use the provided RJ45 waterproof head to secure and protect the connection from environmental elements. Ensure the waterproof head is tightly sealed.



Image: A detailed view of the Gigabit Ethernet port on the AdaLov AX3000, showing the RJ45 waterproof head connected and the reset button.

3. Power Over Ethernet (PoE) Connection

The device supports both active (802.3AF/AT) and passive PoE. Connect the other end of the Ethernet cable to the PoE port of the included PoE power adapter or a compatible PoE switch. Plug the PoE adapter into a power outlet. The PoE converter is not waterproof and must be installed indoors. Use a CAT5E or above Ethernet cable, not exceeding 100m/328ft in length.

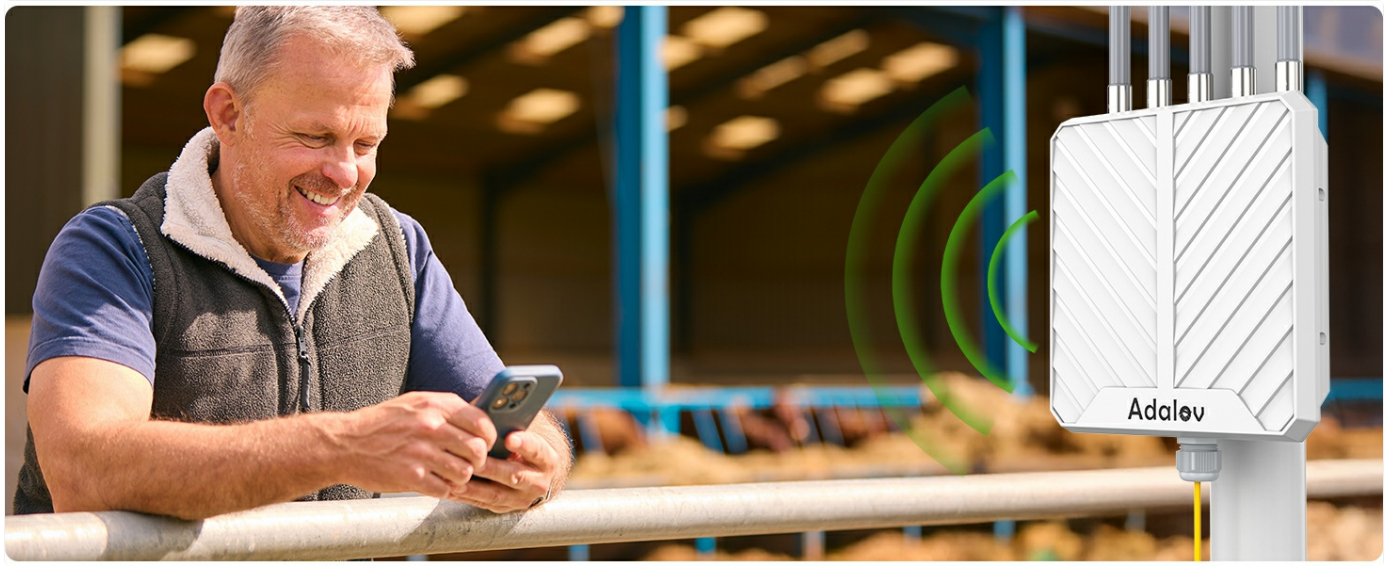


Image: Diagrams illustrating two methods of Power over Ethernet (PoE) connection: Active PoE using a PoE switch and Passive PoE using the included PoE adapter.

4. Mounting the Device

The AdaLov AX3000 can be mounted on a pole or directly to a wall using the provided installation accessories. Choose a location that offers optimal signal coverage and is within the Ethernet cable's length limit from the PoE power source.

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



Image: Two examples of mounting options for the AdaLov AX3000: one showing it mounted on a pole and another showing it mounted on a wall.

Operating Modes

The AdaLov AX3000 supports multiple operating modes to adapt to various network configurations.

Access Point (AP) Mode

In AP Mode, the device converts a wired internet connection into a wireless network. This is ideal for providing Wi-Fi access in areas where only a wired connection is available, such as extending a router's network to an outdoor space.



Image: A diagram illustrating the Access Point (AP) mode, where the AdaLov AX3000 connects to a router/modem via Ethernet and broadcasts a wireless signal to devices.

Repeater Mode

Repeater Mode extends the range of an existing wireless network. The device receives the Wi-Fi signal from your main router and re-broadcasts it, eliminating dead zones and expanding coverage to distant areas.



Image: A diagram illustrating the Repeater mode, where the AdaLov AX3000 wirelessly connects to an existing router and extends its Wi-Fi signal to other devices.

AP + Repeater Mode

This mode combines the functionalities of both AP and Repeater modes. It allows the device to extend an existing Wi-Fi network while also providing a wired connection point, useful for scenarios requiring both extended wireless coverage and a stable wired connection.



Image: A diagram illustrating the AP + Repeater mode, showing the AdaLov AX3000 extending a router's signal and also acting as an access point for devices.

SPECIFICATIONS

Feature	Specification
Brand	AdaLov
Model	AX3000
Wireless Communication Standard	802.11a, 802.11ac, 802.11ax, 802.11g, 802.11n
Data Transfer Rate	Up to 2975 Mbps (2402Mbps on 5GHz, 573Mbps on 2.4GHz)
Frequency Band Class	Dual-Band (2.4 GHz, 5 GHz)
Antennas	5x 8dBi Omni-directional Detachable Fiberglass Antennas
Special Features	Access Point Mode, Repeater Mode, AP+Repeater Mode, Internet Security (WPA3), LED Indicator, IP67 Weatherproof, WiFi 6, 15kV ESD Protection, 6kV Lightning Protection
Compatible Devices	Gaming Console, Personal Computer, Smart Television, Smartphone, Tablet
Range	200-300 meters (radius)
Operating Temperature	-20°C to 50°C (-4°F to 122°F)
Storage Temperature	-30°C to 70°C (-22°F to 158°F)

Feature	Specification
Operating Humidity	10–90% RH non-condensing
Storage Humidity	10–90% RH non-condensing
PoE Support	802.3AF/AT Active PoE and Passive PoE
Ethernet Port	1x Gigabit Ethernet WAN/LAN Port

Maintenance

To ensure the longevity and optimal performance of your AdaLov AX3000 Outdoor WiFi 6 Extender, follow these maintenance guidelines:

- **Regular Cleaning:** Periodically inspect the device for dirt, dust, or debris accumulation, especially around the antenna connections and Ethernet port. Use a soft, dry cloth to clean the exterior. Do not use liquid cleaners directly on the device.
- **Firmware Updates:** Check the manufacturer's website regularly for firmware updates. Keeping the firmware up-to-date ensures you have the latest features, security patches, and performance improvements.
- **Connection Checks:** Annually inspect all cable connections, including the Ethernet cable and antenna connections, to ensure they are secure and free from corrosion or damage. Re-tighten the RJ45 waterproof head if necessary.
- **Environmental Monitoring:** While designed for outdoor use, extreme conditions beyond specified operating limits can affect performance. Ensure the device is not exposed to prolonged submersion or excessive physical impact.

Troubleshooting

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

- **No Power:**
  - Ensure the PoE adapter is correctly plugged into a working power outlet.
  - Verify the Ethernet cable is securely connected between the PoE adapter/switch and the access point.
  - Check the LED indicator on the PoE adapter for power status.
- **No Wi-Fi Signal:**
  - Confirm the antennas are correctly installed and tightened.
  - Verify the device is powered on and the status LEDs are active.
  - Check the configuration settings (AP, Repeater mode) to ensure they are correctly applied.
  - Ensure the main router is functioning correctly and broadcasting a signal if in Repeater mode.
- **Slow Speeds or Frequent Disconnections:**
  - Relocate the access point to a more central position or higher elevation to improve signal strength.
  - Check for potential sources of interference (e.g., other wireless devices, large metal objects).
  - Ensure the Ethernet cable used is CAT5E or higher and within the 100m length limit.
  - Update the device firmware to the latest version.

- If in Repeater mode, ensure the signal from the main router is strong at the extender's location.

- **Cannot Access Web Management Interface:**
  - Ensure your computer is connected to the network provided by the access point (either wired or wireless).
  - Verify the IP address of the access point and your computer's network settings.
  - Try resetting the device to factory defaults by pressing the reset button for 10 seconds (refer to the product overview for reset button location).

Warranty and Support

The AdaLov AX3000 Outdoor WiFi 6 Extender comes with a**1-Year Manufacturer Warranty**. This warranty covers defects in materials and workmanship under normal use during the warranty period.
Additionally, AdaLov provides **lifetime technical support** to ensure you receive timely assistance for any issues that may arise. For warranty claims, technical assistance, or any product-related inquiries, please contact the seller or manufacturer directly through their official support channels.

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Details

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