AOTULIGHT V168Pro-001

V168 GPS Mini Drone User Manual

Model: V168Pro-001

Brand: AOTULIGHT

1. Introduction

Thank you for choosing the AOTULIGHT V168 GPS Mini Drone. This drone is equipped with a 4K camera, FPV capabilities, GPS intelligent positioning, and a powerful brushless motor, designed for both beginners and experienced users. This manual provides essential information for safe operation, setup, maintenance, and troubleshooting to ensure you get the most out of your drone.

2. Safety Information

Always operate the drone responsibly and adhere to local regulations. Failure to do so may result in injury, property damage, or legal consequences.

- **Pre-Flight Check:** Ensure all components are securely attached and batteries are fully charged before each flight.
- **Environmental Conditions:** Avoid flying in strong winds (Level 6 wind resistance is supported, but calm conditions are ideal for beginners), rain, snow, or fog. Maintain a clear line of sight to the drone.
- **Obstacle Avoidance:** While the drone features obstacle avoidance, always be aware of your surroundings and potential hazards.
- **Privacy:** Respect the privacy of others when recording videos or taking photos.
- **Battery Safety:** Use only approved chargers and batteries. Do not overcharge or puncture batteries.
- **Age Recommendation:** This product is recommended for adults.

3. What's in the Box

Verify that all the following components are included in your package:

- V168 GPS Mini Drone
- Remote Control
- 3 x Lithium Ion Batteries (for drone)
- Spare Blades (Propellers)
- Micro-USB Cable (for charging)
- Handbag (Carrying Case)
- Camera (Integrated)



Image: The V168 GPS Mini Drone along with its remote control, three batteries, spare propellers, USB charging cable, and carrying case.

4. Product Overview

4.1 Drone Features

- **Dual Camera System:** Features an 8K main camera and a bottom optical flow lens for stable hovering and diverse shooting angles (flat, oblique, overhead shots).
- **GPS Intelligent Positioning:** Enables precise outdoor positioning, one-click return, low power return, out of control return, and over distance return for enhanced safety.
- **Brushless Motor:** Provides powerful and stable flight performance with Level 6 wind resistance.
- **Obstacle Avoidance:** Four-way detection system automatically senses and avoids surrounding obstacles.
- **5G Transmission:** Ensures smooth, real-time image transmission for FPV flying.



Image: An overview of the V168 Drone, illustrating its key features such as GPS return, obstacle avoidance, brushless motor, and ESC dual camera with HD pixels.



Image: A detailed view of the drone's 8K electric condenser camera with 90-degree remote control angle and 120-degree native wide angle, alongside the HD optical flow lens.

4.2 Remote Control

The remote control features a built-in lithium battery and a USB interface for convenient charging. It includes controls for speed switching, camera adjustment, direction, throttle, power, GPS switch, and geomagnetic calibration.



Image: The drone's remote control, highlighting its USB smart charging capability and foldable handle design for portability.

5. Setup

5.1 Battery Installation and Charging

1. **Drone Battery:** Insert the fully charged lithium-ion battery into the drone's battery compartment until it clicks into place.
2. **Remote Control Battery:** The remote control has a built-in rechargeable battery. Use the provided Micro-USB cable to charge it via a USB power source.
3. **Charging Indicator:** Refer to the charging indicator lights on both the drone battery and remote control for charging status.

5.2 Propeller Installation

Ensure propellers are correctly installed according to their rotation direction (indicated on the drone arms and propellers). Secure them firmly.

5.3 App Installation and Connection

1. Download the official AOTULIGHT drone app from your device's app store.
2. Power on the drone and the remote control.
3. Connect your smartphone to the drone's Wi-Fi network (usually named

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