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› AOTULIGHT V162 GPS Drone User Manual

AOTULIGHT V162

AOTULIGHT V162 GPS Drone User Manual

Model: V162 | Brand: AOTULIGHT

1. INTRODUCTION

This manual provides detailed instructions for the safe operation and maintenance of your AOTULIGHT V162 GPS Drone. Please read this manual thoroughly before operating the drone to ensure proper function and to prevent damage or injury. The V162 drone features a 4K HDR camera, up to 60 minutes of flight time with three batteries, and intelligent flight modes such as Smart Return, Follow Me, Circle Fly, and Tap Fly, with 5GHz WiFi transmission for real-time video.

2. WHAT'S IN THE BOX

Carefully unpack your AOTULIGHT V162 GPS Drone and verify that all components are present:

- Aircraft x1
- Remote Control x1
- Battery x1 (Note: Product includes 3 Lithium Ion batteries total)
- Spare Blade x8
- Blade Screws
- Bolt Driver
- Charging Line (Micro-USB Cable)
- Product Manual
- APP Manual
- Storage Bag



Image: All components included in the AOTULIGHT V162 GPS Drone package.

3. SETUP GUIDE

3.1 Unfolding the Drone

1. Gently unfold the drone arms until they are fully extended. Ensure they click into place securely.

v162 Drone

System

GPS return

Performance

Obstacle avoidance
/brushless

Dual Camera

HD shooting



-  ESC camera
-  HD dual camera
-  Avoiding obstacles
-  50x zoom
-  Beauty filter
-  GPS return
-  Brushless power
-  MV production
-  Optical flow localization
-  One click control
-  Surround shooting
-  Gesture photography
-  Custom waypoint
-  Intelligent Follow
-  Mobile control



Image: The AOTULIGHT V162 GPS Drone in its folded, compact state.



Image: The AOTULIGHT V162 GPS Drone with arms unfolded, ready for flight.

3.2 Installing Drone Batteries

1. Insert the charged drone battery into the designated compartment on the drone until it clicks securely.

3.3 Powering On and Pairing

1. Long press the power button on the drone to turn it on. The drone's lights will flash.
2. Place the drone on a flat, level surface.
3. Turn on the remote control switch.
4. Move the left joystick up and down for frequency alignment. The remote will beep to confirm connection.
5. Calibrate the gyroscope by simultaneously moving both joysticks towards the bottom-left corner. The drone's lights will flash and then turn on normally, indicating successful calibration.

3.4 APP Download and Connection

1. Scan the QR code provided in the APP manual (or product manual) to download the 'WIFI UAV' application.
2. After downloading, connect your mobile device to the drone's WiFi network (usually named 'FLOW_8K_XXXXXX').
3. Open the APP to view the real-time transmission screen from the drone's camera.
4. Clip your phone onto the remote control's phone holder.

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Video: AOTULIGHT V162 Drone Operation Video Tutorial. This video demonstrates the unboxing, setup, pairing, calibration, and basic flight controls of the V162 drone.

4. OPERATING INSTRUCTIONS

4.1 Basic Flight Controls

- **One-Click Takeoff/Landing:** Press the one-click takeoff button on the remote to launch or land the drone automatically.
- **Rise/Decline:** Use the left joystick to control the drone's altitude.
- **Left/Right Rotation:** Use the left joystick to rotate the drone left or right.
- **Forward/Backward:** Use the right joystick to move the drone forward or backward.
- **Left/Right Lateral Flight:** Use the right joystick to move the drone sideways (strafe) left or right.

4.2 Speed Adjustment

The drone has multiple speed gears. Press the speed button on the remote control to cycle through the speeds:

- One beep: Low speed gear (suitable for beginners or indoor flight).
- Two beeps: Medium speed gear.
- Three beeps: High speed gear (for experienced pilots and outdoor flight).

4.3 Electric Camera Adjustment

Use the dedicated buttons on the remote control to adjust the camera angle (up/down) during flight. The camera can be remotely adjusted by 90°.

4.4 Obstacle Avoidance Function

The V162 drone is equipped with a four-way detection and perception system. Activate the obstacle avoidance function via the remote control. The drone will automatically brake and emit a warning sound when encountering obstacles, effectively reducing collisions.

4.5 Headless Mode

Press the headless mode button to activate. In headless mode, the drone's orientation is relative to the pilot, making it easier to control without needing to know the drone's front direction.

4.6 360° Roll

To perform a 360° roll, press the roll button and then toggle the right joystick in the desired direction. The drone will execute a full rotation.

4.7 Intelligent Flight Modes

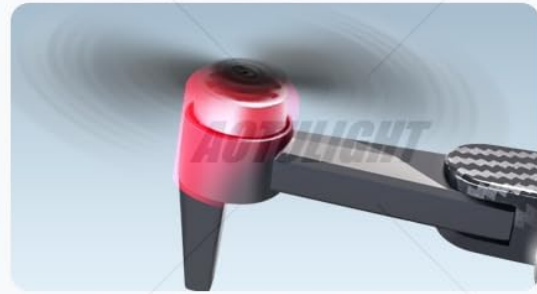
- **Smart Return:** The drone has multiple intelligent return modes. After takeoff, it records its position. When activated, it can return to its takeoff point.

Six Reasons

Select V162 drone



540 ° intelligent obstacle avoidance



Upgrade Brushless Power



8K electrically adjustable dual camera



GPS intelligent return



Optical flow positioning hovering



Electronic fence protection

Image: Visual representation of the GPS intelligent return function.

- **Follow Me:** Enable this mode via the APP to achieve automatic tracking. The drone will follow the subject (e.g., the remote control or mobile device).

Surround shooting

360 ° surround shooting centered on the remote control.

Obstacle Avoidance
Brushless power
ESC HD Camera
Brushless

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Image: The drone demonstrating the 'Intelligent Follow' mode.

- **Circle Fly (Surround Shooting):** The drone can perform 360° surround shooting centered on the remote control or a designated point.

Intelligent Follow

Enable following to achieve automatic tracking.

Obstacle Avoidance
Brushless power
ESC HD Camera
Brushless



Image: The drone executing a 'Surround Shooting' maneuver.

- **Tap Fly (Trajectory Indication):** Draw a desired flight path on the APP interface. The drone will automatically follow this trajectory.

GPS intelligent return

Obstacle Avoidance
Brushless power
ESC HD Camera
Brushless

The drone has multiple intelligent return modes and takes off to record its position. When it needs to self return, it can be achieved through the remote control.



Image: The 'Trajectory Indication' feature, allowing users to draw flight paths.

- **Gesture Photography/Recording:** Make specific gestures to trigger automatic photo capture or video recording.

Your browser does not support the video tag.

Video: AOTULIGHT V162 UAV Product Display. This video showcases various advanced features including optical flow localization, 90° adjustable lens, omnidirectional obstacle avoidance, gesture photography, and 360° roll.

5. MAINTENANCE

5.1 Replacing Fan Blades

1. Use the provided screwdriver to unscrew the fan blade screws.
2. Carefully remove the old fan blade.
3. Pay attention to the A/B markings on the new fan blades and install the corresponding blade (A-2 or B-2) to the correct motor.
4. Tighten the screws to secure the new fan blade.

5.2 Charging the Battery

1. Connect the drone battery to the charging cable (Micro-USB).

2. Connect the charging cable to a power supply (e.g., USB wall adapter, computer USB port).
3. The indicator light on the battery will be constantly on while charging.
4. Once fully charged, the light will turn off.

6. TROUBLESHOOTING

If you encounter any issues with your AOTULIGHT V162 GPS Drone, please consider the following common solutions:

- **Drone not powering on:** Ensure the battery is fully charged and correctly inserted.
- **Remote not connecting:** Verify both the drone and remote are powered on and perform the frequency alignment steps again.
- **Unstable flight:** Ensure the drone is placed on a level surface for gyroscope calibration before flight. Check for damaged propellers and replace if necessary.
- **APP connection issues:** Confirm your phone is connected to the drone's WiFi network and that the APP is updated to the latest version.

For persistent issues, please refer to the full APP manual or contact AOTULIGHT customer support.

7. SPECIFICATIONS

Feature	Specification
Brand	AOTULIGHT
Model Name	V162
Special Features	Auto Follow, Auto-Landing, Auto-Orientation, Extended Flight Time, Obstacle Avoidance
Age Range (Description)	Adult
Color	Off-white
Video Capture Resolution	1080p (Output Resolution: 4K (3840x2160))
Connectivity Technology	Wi-Fi (5GHz)
Skill Level	Beginner
Item Weight	500 Grams (1.1 pounds)
Battery Capacity	2000 Milliamp Hours (Lithium Ion)
Video Capture Format	MP4
Remote Control Technology	IR
Control Type	Remote Control
Material	Plastic
Supported Image Format	JPEG

Optical Sensor Technology	Optical Flow, CMOS
Product Dimensions	8.74"L x 2.64"W x 6.88"H
Manufacturer Part Number	V88-001

8. WARRANTY AND SUPPORT

The AOTULIGHT V162 GPS Drone comes with a standard manufacturer's warranty. Please refer to the warranty card included in your package for specific terms and conditions. For technical support, troubleshooting assistance, or to inquire about replacement parts, please contact AOTULIGHT customer service through their official channels or visit the AOTULIGHT Store on Amazon.

[Visit the AOTULIGHT Store](#)