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› ZQDDBA SS127 GPS Positioning Professional Aerial Photography Drone User Manual

## **ZQDDBA SS127**

# **ZQDDBA SS127 GPS Positioning Professional Aerial Photography Drone User Manual**

**MODEL: SS127**

## **Introduction**

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This manual provides essential instructions for the safe operation, setup, and maintenance of your ZQDDBA SS127 GPS Positioning Professional Aerial Photography Drone. Please read this manual thoroughly before operating the drone to ensure proper function and to prevent damage or injury. This drone features an 8K high-definition camera, a three-axis anti-shake gimbal, 360° obstacle avoidance, and GPS global positioning for an enhanced aerial photography experience.

## **Package Contents**

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**STRONG BRUSHLESS POWER**

**4grain**

Brushless Motor

**3200 rpm**

power output

**Level 6**

Strong wind  
resistance

Image: The ZQDDBA SS127 drone, remote control, three batteries, and folded drone view.

Verify that all items listed below are present in your package:

- Drone x 1
- Remote control x 1
- Body battery x 3 (7.4V 3000mAh)
- Spare fan blades x 4
- USB charging cable x 1
- Storage bag x 1

## Setup Guide

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### 1. Charge Batteries:

Connect the drone's intelligent lithium batteries (7.4V 3000mAh) to the USB charging cable and a suitable USB power adapter. Charging time is approximately 2 hours per battery. Ensure the remote control battery (3.7V

300mAh) is also charged.

## 2. Install Drone Battery:

Insert a fully charged drone battery into the designated compartment on the drone. Ensure it clicks securely into place.

## 3. Install Remote Control Battery:

Open the battery compartment on the remote control and insert the 3.7V 300mAh battery. Close the compartment securely.

## 4. Unfold Drone Arms:

Gently unfold the drone's arms until they lock into position. Ensure all four arms are fully extended before flight.

## 5. Propeller Installation (if required):

If propellers are not pre-installed, attach them according to the markings (e.g., A and B) on the propellers and motor shafts. Ensure they are securely fastened.

## 6. Power On:

Press and hold the power button on the drone until the indicator lights illuminate. Then, press the power button on the remote control to turn it on.

## 7. Pairing:

The drone and remote control should automatically pair. If not, follow the specific pairing instructions in the quick start guide (usually involves moving the left joystick up and down).

## 8. App Installation:

Download and install the official ZQDDBA drone application on your smartphone. Connect your phone to the drone's Wi-Fi network to enable real-time image transmission and advanced control features.

# Operating Instructions

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## Pre-Flight Checks

- Ensure all batteries are fully charged.
- Check propellers for damage and ensure they are securely attached.
- Verify the drone's arms are fully unfolded and locked.
- Ensure you are in an open area, away from obstacles, people, and restricted airspace.
- Confirm GPS signal acquisition before takeoff for stable flight and return-to-home functions.

## Basic Flight Controls

- **One-Key Takeoff/Landing:** Press the designated button on the remote control for automatic takeoff or landing.
- **Headless Mode:** Activates a mode where the drone's orientation is irrelevant to control inputs, simplifying flight for beginners.
- **Mobile Phone Control:** Use the dedicated app on your smartphone for controlling the drone and accessing advanced features.

## GPS Positioning and Return Functions

# THREE-AXIS MECHANICAL STABILIZATION GIMBAL +eIS electronic image stabilization

« WONDERFUL

The drone flies left and right, back and forth,  
remain stable

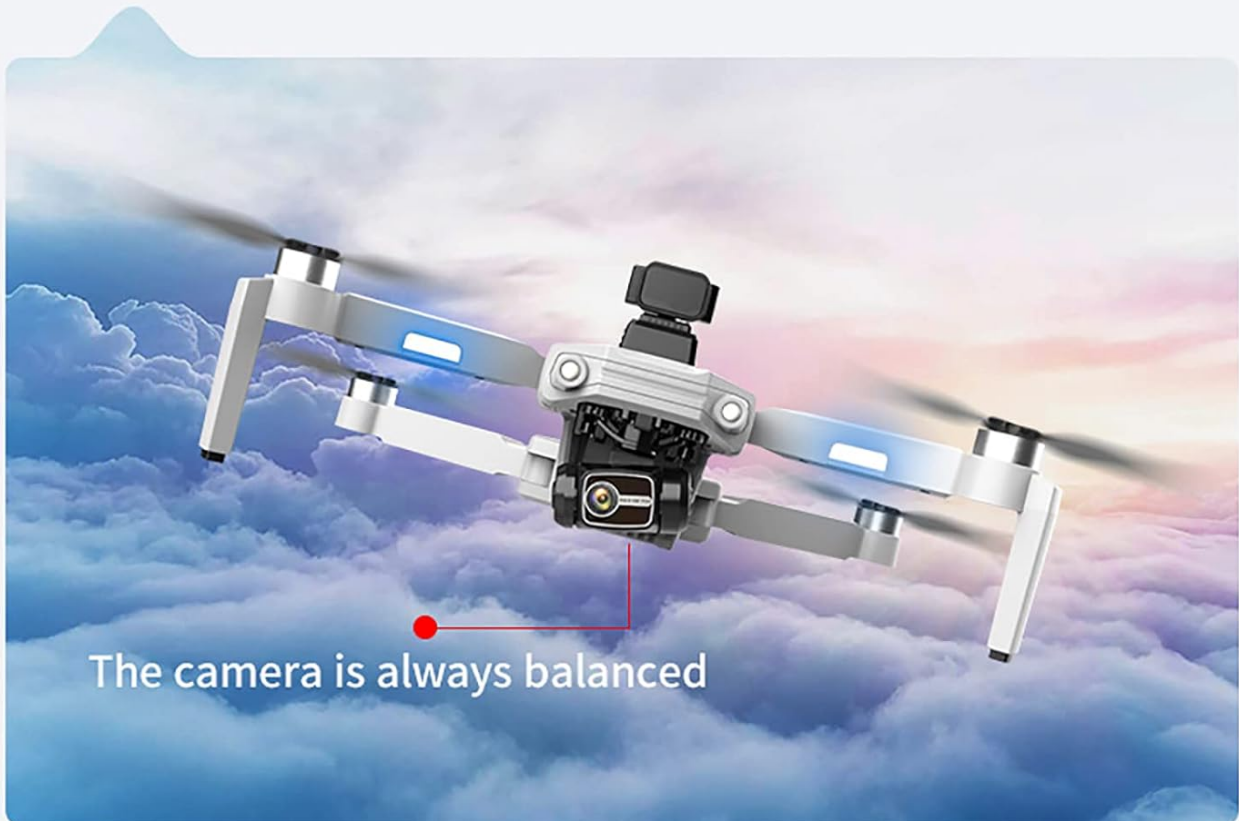


Image: Illustration of GPS return functions including one-key return, low power return, and runaway return.

The integrated GPS global positioning system ensures stable flight and provides critical safety features:

- **One-Key Return:** The drone will automatically return to its takeoff point with a single button press.
- **Low Power Return:** If the battery level drops critically low, the drone will automatically initiate a return to home.
- **Runaway Return:** In case of signal loss, the drone will automatically return to its takeoff point.

## 360° Obstacle Avoidance



Image: The drone's 360° laser obstacle avoidance system detecting and avoiding obstacles.

The drone is equipped with a 360° omnidirectional laser obstacle avoidance system. This system senses obstacles in all directions and will automatically stop the drone's flight to prevent collisions, making operation safer and easier.

### **Camera and Gimbal Operation**

# 8K ESC DUAL CAMERA

EIS STABILIZATION SHOOTING



Dual camera, switch freely

90°  
electric

120°  
Wide-angle lens



8K pixel lens

Cinematic Pixels  
Support 90° remote control

Optical flow lens

Freely switch the viewing angle  
Create more freely

Image: Close-up of the 8K ESC Dual Camera system, highlighting the 8K pixel lens with 90° remote control and the optical flow lens.

# 360° Laser Obstacle Avoidance

fly 5 km

4K/8K pixel

fly 28 minute



**8K  
Dual camera**

**Three-axis EIS image  
stabilization gimbal**

Image: The drone in flight, showcasing the three-axis mechanical stabilization gimbal and EIS electronic image stabilization keeping the camera balanced.

The drone features an 8K ESC Dual Camera system with a three-axis mechanical gimbal and EIS electronic image stabilization for superior aerial photography.

- **8K ESC Dual Camera:** The front camera offers 8K resolution with a 120° wide-angle lens and supports 90° remote control adjustment. The bottom optical flow camera allows for flexible viewing angle switching.
- **Three-Axis Gimbal + EIS:** This combination provides stable shooting performance by effectively eliminating shaking during flight, ensuring clear and smooth footage.
- **Gesture Control:** During flight, specific hand gestures can be used to trigger photo or video recording. Refer to the app for detailed gesture commands.
- **Zoom Function:** Utilize the 50x zoom feature through the mobile app to capture distant subjects.
- **Waypoint Flight:** Plan custom flight paths by setting waypoints on the map within the app.
- **360° Surround:** Engage the 360° surround mode to orbit a point of interest, capturing dynamic footage.

## Maintenance

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- **Cleaning:** Use a soft, dry cloth to clean the drone body and camera lens. Avoid using harsh chemicals or solvents.
- **Battery Care:**
  - Store batteries in a cool, dry place, away from direct sunlight and extreme temperatures.
  - Do not overcharge or over-discharge batteries.
  - If storing for extended periods, charge batteries to approximately 50-60% capacity.
- **Propeller Inspection:** Regularly inspect propellers for cracks, bends, or other damage. Replace damaged propellers immediately using the provided spare blades.
- **Firmware Updates:** Check the official ZQDDBA website or app periodically for firmware updates. Keeping your drone's firmware updated ensures optimal performance and access to new features.

## Troubleshooting

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Problem	Possible Cause	Solution
Drone does not power on.	Battery not charged or improperly installed.	Ensure battery is fully charged and correctly inserted.
Remote control not connecting.	Remote control battery low; pairing failed.	Charge remote control battery. Re-attempt pairing process.
Unstable flight or drifting.	Poor GPS signal; uncalibrated sensors; damaged propellers.	Fly in an open area with clear sky. Perform IMU/compass calibration. Check and replace damaged propellers.
No image transmission to phone.	Phone not connected to drone's Wi-Fi; app not running.	Connect phone to drone's Wi-Fi network. Ensure app is open and connected.
Drone does not respond to controls.	Out of range; signal interference; low drone battery.	Fly within specified range. Avoid areas with strong interference. Check drone battery level. Drone may initiate automatic return if signal is lost.

## Specifications

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Feature	Detail
Brand	ZQDDBA
Model Name	GPS Positioning Professional Aerial Photography Drone
Model Number	SS127
Camera	8K ESC Dual Camera (Front 120° wide-angle, 90° remote control; Bottom optical flow)
Gimbal	Three-axis mechanical gimbal + EIS electronic image stabilization
Obstacle Avoidance	360° Omnidirectional Laser Obstacle Avoidance
Positioning System	GPS Global Positioning System
Drone Battery	7.4V 3000mAh Intelligent Lithium Battery
Charging Time (Drone)	Approximately 2 hours (USB charging)
Flight Time	28-30 minutes
Remote Control Battery	3.7V 300mAh (included)
Remote Control Distance	Maximum about 5000 meters (no interference, no blocking)
Remote Control Height	About 500 meters (no interference, no blocking)
Folded Dimensions (L*W*H)	17*9*6.5 CM
Unfolded Dimensions (L*W*H)	32*30*6.5 CM
Body Weight	Approximately 300g
Motor Type	Brushless Motor (3200 rpm power output, Level 6 wind resistance)

## Warranty and Support

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Warranty information for the ZQDDBA SS127 drone is typically provided at the point of purchase or within separate documentation included with your product. Please refer to these materials for details regarding warranty coverage, terms, and conditions.

For technical support, troubleshooting assistance beyond this manual, or inquiries regarding parts and service, please contact ZQDDBA customer support through their official website or the contact information provided with your purchase.

