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› Teeggi SG909 4K Drone Instruction Manual

TeeGGi SG909

Teeggi SG909 4K Drone Instruction Manual

Model: SG909

1. INTRODUCTION

This manual provides essential information for the safe operation and maintenance of your Teeggi SG909 4K Drone. Please read this manual thoroughly before operating the drone to ensure proper usage and to prevent damage or injury. Keep this manual for future reference.

2. PRODUCT OVERVIEW

2.1 Package Contents

The Teeggi SG909 4K Drone package includes the following items:

- Drone (SG909)
- Remote Control with Display
- Battery (11.1V 5000mAh Lithium Polymer)
- Propellers (set of spares included)
- USB Charger
- User Manual (this document)

2.2 Key Features

The Teeggi SG909 4K Drone is equipped with advanced features for an enhanced flight experience:

- **360° Obstacle Avoidance:** Scans a 360° sector to detect obstacles within 20 meters, automatically stopping flight and sending an alarm via the remote control for safe operation.
- **Remote Control with Integrated Display:** Features its own system for GPS intelligent return, orbit flight, route planning, gesture photo/video, headless mode, and follow mode without requiring a mobile phone.
- **3-Axis Mechanical Gimbal + EIS 4K Camera:** Ensures stable camera operation and eliminates image shake for clear, stable 4K video (4096*2160P 25fps) and photos. Includes a 90° wide-angle lens and night shot function.

- **Extended Flight Range and Duration:** Offers up to 6km control and image transmission distance and a flight altitude of up to 500m. The 5000mAh battery provides up to 45 minutes of flight time.



Figure 1: Teeggi SG909 Drone and Remote Control. The drone features foldable arms and a camera mounted on a gimbal. The remote control has a built-in screen for live video feed and flight information.



Figure 2: Close-up of the SG909 drone's 4K camera with its 3-axis mechanical gimbal, designed for stable video and photo capture.

3. SETUP

3.1 Battery Charging and Installation

Before first use, fully charge the drone battery and the remote control battery. Use the provided USB charger.

1. Connect the USB charger to a power source and the battery.
2. The charging indicator will show charging status. Once fully charged, disconnect.
3. Insert the charged battery into the drone's battery compartment until it clicks securely into place.

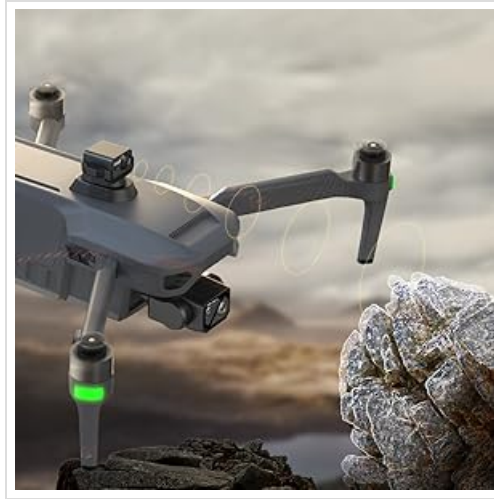


Figure 3: Illustration of the drone's battery compartment and the battery module. Ensure the battery is correctly inserted and secured.

3.2 Propeller Installation

Ensure propellers are correctly installed on the corresponding motor shafts. Match the propeller type (A or B) with the markings on the drone's motor arms.

1. Identify propellers marked 'A' and 'B'.
2. Attach 'A' propellers to motor shafts marked 'A', and 'B' propellers to motor shafts marked 'B'.
3. Secure each propeller firmly.

3.3 Drone and Remote Control Pairing

1. Place the drone on a flat, open surface.
2. Power on the drone, then power on the remote control.
3. Follow the on-screen prompts on the remote control to pair with the drone.
4. Wait for GPS signal acquisition and compass calibration completion before flight.

4. OPERATING INSTRUCTIONS

4.1 Basic Flight Controls

Familiarize yourself with the remote control sticks and buttons. The left stick typically controls altitude and yaw, while the right stick controls forward/backward and left/right movement.



Figure 4: The remote control unit with its integrated display. The display shows real-time flight data and camera feed.

4.2 Takeoff and Landing

- **Automatic Takeoff:** Press the one-key takeoff button on the remote control. The drone will ascend to a safe height and hover.
- **Manual Takeoff:** Push both control sticks diagonally outwards and downwards to start the motors. Then slowly push the left stick up to ascend.
- **Automatic Landing:** Press the one-key landing button. The drone will descend and land automatically.
- **Manual Landing:** Slowly pull the left stick down to descend. Once landed, push both sticks diagonally outwards and downwards to stop the motors.

4.3 Camera Operation

The 4K camera with its 3-axis gimbal provides stable, high-resolution imagery.

- **Photo/Video Capture:** Use the dedicated buttons on the remote control to take photos or start/stop video recording.
- **Gimbal Control:** Adjust the camera angle using the gimbal dial on the remote control.
- **Night Shot Function:** Activate the night shot mode for improved low-light performance.

4.4 Intelligent Flight Modes

The SG909 drone offers several intelligent flight modes accessible via the remote control display:

- **GPS Intelligent Return:** The drone automatically returns to its takeoff point when the battery is low, signal is lost, or the return-to-home button is pressed.
- **360° Obstacle Avoidance:** The drone will automatically detect and avoid obstacles within a 20-meter radius.
- **Orbit Flight:** The drone flies in a circular path around a designated point of interest.
- **Route Planning:** Draw a flight path on the remote control screen, and the drone will follow it.
- **Gesture Photo/Video:** Perform specific hand gestures to trigger photo or video capture.
- **Headless Mode:** The drone's orientation is relative to the pilot, simplifying control regardless of the drone's front direction.
- **Follow Mode:** The drone will automatically follow the remote control or a designated subject.



Figure 5: The drone's 360° obstacle avoidance system actively scans its surroundings to prevent collisions during flight.



Figure 6: The drone utilizes GPS for precise positioning, enabling features like intelligent return and stable hovering.

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Video 1: Official product video demonstrating the Teeggi SG909 drone's flight capabilities, camera features, and intelligent modes such as obstacle avoidance and GPS return. This video highlights the drone's performance in various environments.

5. MAINTENANCE

5.1 Cleaning

Regularly clean the drone and remote control to ensure optimal performance.

- Use a soft, dry cloth to wipe down the drone body and remote control.
- Gently clean the camera lens with a microfiber cloth.
- Remove any debris from the motors and propellers.

5.2 Propeller Replacement

Inspect propellers for damage before each flight. Replace any bent, cracked, or chipped propellers immediately.

1. Power off the drone.
2. Carefully remove the damaged propeller.
3. Install a new propeller, ensuring it matches the correct motor arm (A or B).

5.3 Battery Care

- Store batteries in a cool, dry place away from direct sunlight.
- Do not overcharge or over-discharge batteries.
- If storing for extended periods, charge batteries to approximately 50-60% capacity.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Drone does not power on	Low battery; improperly installed battery	Charge battery; ensure battery is securely installed.
Drone cannot take off	Insufficient GPS signal; compass not calibrated; propellers incorrectly installed	Move to an open area for GPS; perform compass calibration; check propeller installation.

Problem	Possible Cause	Solution
Poor image/video quality	Dirty camera lens; unstable flight; low light conditions	Clean lens; ensure stable flight conditions; use night shot mode if applicable.
Remote control signal loss	Out of range; interference	Fly within specified range (6km); avoid areas with strong electromagnetic interference.

7. SPECIFICATIONS

Feature	Detail
Brand	TeeGGi
Model Name	SG909
Special Features	360° Obstacle Avoidance, 3-Axis Gimbal with EIS, 4K Camera, 6km Control Distance, 45 Minutes Flight Time
Video Capture Resolution	4K (4096 x 2160 pixels)
Connectivity Technology	Wi-Fi, 5.8 GHz Wireless Communication
Battery Capacity	5000 Milliamp Hours (11.1V)
Max Flight Time	Up to 45 minutes
Control Distance	Up to 6 km
Item Weight	1.7 Pounds (approx. 771 grams)
Product Dimensions	15.7"L x 11"W x 4.3"H
Material	Plastic

8. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official TeeGGi website or contact their customer service directly. Keep your purchase receipt as proof of purchase.

Official TeeGGi Store: [TeeGGi Amazon Store](#)