

GoolRC S9S

GoolRC S9S GPS Drone User Manual

Model: S9S

1. SAFETY GUIDELINES

Before operating the GoolRC S9S GPS Drone, please read and understand all safety instructions. Failure to follow these guidelines may result in injury, damage to the drone, or property damage.

- **Flight Environment:** Fly in open areas, away from people, buildings, trees, power lines, and water. Avoid flying in strong winds or adverse weather conditions.
- **Battery Safety:** Use only approved batteries and chargers. Do not overcharge or puncture batteries. Discontinue use if batteries show signs of damage or swelling.
- **Propeller Safety:** Keep hands, face, and loose clothing away from rotating propellers. Ensure propellers are correctly installed and free from damage before each flight.
- **Operator Responsibility:** Maintain visual line of sight with the drone at all times. Do not operate under the influence of alcohol or drugs. Understand and comply with local aviation regulations.
- **Age Recommendation:** This product is recommended for users aged 16 years and up.

2. PACKAGE CONTENTS

Verify that all items are present in your GoolRC S9S drone package:

- GoolRC S9S GPS Drone
- Remote Controller
- Flight Battery (7.4V 1200mAh)
- Spare Propellers
- USB Charging Cable
- Screwdriver
- User Manual
- Portable Storage Bag

GoolRC S9S GPS Drone with 4K Camera for Adults

Smart and Easy Control



Image: The GoolRC S9S drone, remote controller, batteries, spare propellers, charging cable, and screwdriver neatly organized within its custom storage case.

3. PRODUCT OVERVIEW

3.1 Drone Components

Familiarize yourself with the main parts of your GoolRC S9S drone:

- **Foldable Arms:** For compact storage and transport.
- **Propellers:** Four propellers for lift and propulsion.
- **4K UHD EIS Anti-Shake Camera:** Front-facing camera with 2-axis mechanical gimbal for stable video and photos.
- **Optical Flow Sensor:** Bottom-mounted sensor for stable hovering indoors or without GPS.
- **Obstacle Avoidance Sensors:** Integrated sensors to detect and avoid obstacles.
- **Flight Battery Compartment:** Located at the rear of the drone.
- **Brushless Motors:** Provide efficient and powerful flight.



Image: The GoolRC S9S drone in flight configuration, alongside its remote controller, batteries, and carrying case, illustrating the complete product package.

3.2 Key Features

The GoolRC S9S drone is equipped with advanced features for an enhanced flight experience:

- **4K UHD EIS Anti-Shake Camera with 2-Axis Gimbal:** Captures high-resolution photos and stable videos.
- **GPS Assisted Intelligent Flight:** Includes Smart Return Home, Follow Me, Waypoint Flight, and Surround Shooting.
- **Obstacle Avoidance System:** Automatically detects and evades obstacles for safer flight.
- **Optical Flow Altitude Hold:** Provides stable hovering, especially in environments without GPS signal.
- **5G WiFi Transmission:** Enables real-time high-definition image transmission to your mobile device.
- **Brushless Motors:** Offer increased power, efficiency, and durability.
- **Modular Battery:** 7.4V 1200mAh capacity for approximately 25 minutes of flight time.
- **Foldable Design:** Compact and portable for easy transport.
- **Gesture Photography/Video:** Allows for hands-free photo and video capture.



Image: An infographic highlighting the GoolRC S9S drone's main features, including its two-axis gimbal, 4K camera, GPS smart return, waypoint flight, intelligent follow, surround shooting, 2-kilometer flight range, 5G digital image transmission, intelligent obstacle avoidance, 25 minutes endurance, USB rechargeable battery, and brushless motor.

4. SETUP

4.1 Charging Batteries

Ensure both the drone flight battery and the remote controller battery are fully charged before use.

1. Connect the USB charging cable to the battery and a suitable USB power adapter (not included).
2. The indicator light on the battery will show charging status (refer to battery specific indicators).
3. Charging typically takes 60-90 minutes for the flight battery.

4.2 Drone Battery Installation

1. Unfold the drone arms.
2. Locate the battery compartment at the rear of the drone.
3. Insert the fully charged flight battery into the compartment until it clicks securely into place.

4.3 Propeller Installation

The drone comes with propellers pre-installed. If replacement is needed:

1. Identify the 'A' and 'B' markings on the propellers and drone motor arms.
2. Match 'A' propellers to 'A' motor shafts and 'B' propellers to 'B' motor shafts.
3. Secure each propeller with the provided screws using the screwdriver. Ensure they are firmly attached but not overtightened.

4.4 Remote Control Setup

Install the remote controller battery (if not built-in) and attach your mobile device.

1. Open the phone holder on the remote controller and securely place your smartphone.
2. Refer to the diagram below for button functions and indicators.



Image: A detailed diagram of the GoolRC S9S remote controller, showing the placement and function of the left joystick, right joystick, GPS switch, short press headless mode/long press takeoff and landing button, camera angle adjustment, speed gear, power switch, one-click return, short press gyroscope/long press geomagnetic calibration, power indicator light, return indicator light, GPS indicator light, and charging indicator light.

4.5 App Installation and Connection

1. Download the official GoolRC S9S app from your mobile device's app store.
2. Power on the drone, then power on the remote controller.
3. On your smartphone, connect to the drone's 5G WiFi network (usually named 'GoolRC-S9S-XXXX').
4. Open the GoolRC S9S app. The app should automatically connect to the drone, displaying the live camera feed.

5. OPERATING INSTRUCTIONS

5.1 Pre-Flight Checklist

- Ensure all batteries are fully charged.
- Check propellers for damage and ensure they are securely attached.
- Verify the drone arms are fully unfolded.
- Confirm the drone and remote controller are paired and connected to the app.
- Perform compass calibration as instructed by the app or manual before the first flight in a new location.
- Choose a safe, open flying area.

5.2 Basic Flight Controls

- **Takeoff/Landing:** Press the one-key takeoff/landing button on the remote controller or use the app.

Alternatively, push both joysticks down and out to start motors, then push the left joystick up to ascend.

- **Ascend/Descend:** Left joystick up/down.
- **Turn Left/Right (Yaw):** Left joystick left/right.
- **Forward/Backward:** Right joystick up/down.
- **Fly Left/Right (Strafe):** Right joystick left/right.

5.3 GPS Mode

When GPS signal is strong (indicated by GPS icon on remote/app), the drone will automatically maintain its position and altitude. This mode enables intelligent flight functions.

5.4 Optical Flow Positioning

The bottom optical flow sensor allows the drone to maintain a stable hover indoors or in areas with weak GPS signal. Ensure good lighting and a textured surface below for optimal performance.

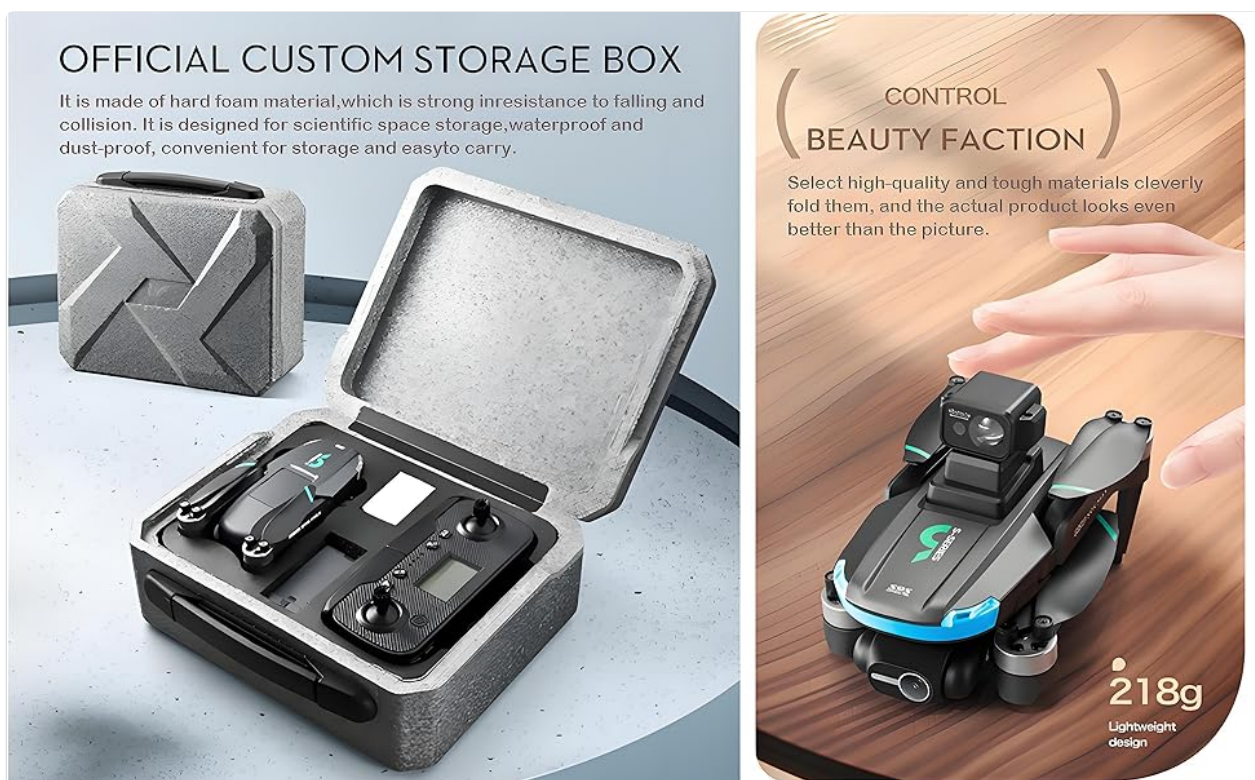


Image: A visual representation of the drone's optical flow visual hovering capability, its GPS return system (out of control return, low battery return, over range return, one-click return), and its obstacle avoidance function, illustrating how these features contribute to safer and more stable flight.

5.5 Headless Mode

In Headless Mode, the drone's orientation is relative to the pilot, regardless of which way the drone's front is facing. This simplifies control for beginners. Activate via the remote controller button.

5.6 Intelligent Flight Functions (GPS Required)

- **Smart Return Home (RTH):** The drone will automatically return to its takeoff point if the battery is low, signal is lost, or the RTH button is pressed.
- **Follow Me:** The drone will automatically follow the remote controller or mobile device, keeping you in the frame.
- **Waypoint Flight:** Draw a desired flight path on the app map, and the drone will fly along it automatically.
- **Surround Shooting:** Select a point of interest on the app, and the drone will circle around it, capturing

footage.



Image: Three panels demonstrating intelligent flight modes: 'Defining Waypoints' where the drone follows a pre-drawn path, 'Surround Shooting' where the drone orbits a central point, and 'Intelligent Follow' where the drone tracks the operator.

5.7 Obstacle Avoidance

The drone's obstacle avoidance system uses sensors to detect obstacles in its path and automatically adjust its flight trajectory to prevent collisions. This feature enhances flight safety.

5.8 Camera and Video Recording

The 4K UHD camera with a 2-axis gimbal provides stable and high-quality aerial footage.

- **Adjust Camera Angle:** Use the dedicated button/dial on the remote controller to adjust the camera's tilt angle (90° range).
- **Take Photos:** Press the photo button on the remote controller or tap the photo icon in the app.
- **Record Video:** Press the video button on the remote controller or tap the video icon in the app to start/stop recording.
- **50x Zoom:** Utilize the app to digitally zoom in on subjects during flight.

No delay

5G HIGH-DEFINITION IMAGE TRANSMISSION

Through your mobile phone, you can watch the images taken by the drone in real time. In the 5G high-definition frequency band, the image transmission has no delay, stability and a better viewing experience.

Intelligent recognition

GESTURE PHOTOGRAPHY/ VIDEO RECORDING

During the flight, aim the drone camera and make corresponding gestures to shoot.

Wave your hand to achieve shooting

50x zoom

FEARLESS HIGH-ALTITUDE VISION

When you need a clearer view of the distance, you can zoom into view or shoot.

0-50x zoom, zooming in on details

Image: A detailed view of the drone's two-axis mechanical gimbal and 4K camera, emphasizing its stability and anti-shake capabilities. Accompanying images show examples of high-definition aerial photography from different angles (head up, top view, skew shooting).

5.9 Gesture Control

Perform specific hand gestures in front of the drone's camera to trigger photo or video capture.

- **Photo Gesture:** Make a 'V' sign with your fingers.
- **Video Gesture:** Show an open palm.

intelligence

DEFINING WAYPOINTS

Draw the desired flight path on the mobile phone APP, and the drone will perform automatic intelligent flight.

Shooting blockbusters

SURROUND SHOOTING

During the flight, turn on the surround mode, and the drone will perform 360-degree surround shooting with the remote controller as the center, realizing one-click video shooting.

Follow up

INTELLIGENT FOLLOW

During the flight, turn on the follow function. Through GPS positioning, the drone can automatically follow the operator and easily achieve automatic tracking.

Image: A multi-panel display illustrating the drone's 5G high-definition image transmission to a mobile phone, gesture photography for hands-free photo/video capture, and the 0-50x zoom capability for detailed high-altitude vision.

6. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the drone body, camera lens, and sensors. Do not use harsh chemicals or solvents.
- **Propellers:** Regularly inspect propellers for cracks, bends, or other damage. Replace damaged propellers immediately.
- **Battery Care:** Store batteries in a cool, dry place. Do not store fully charged or fully depleted for extended periods. Charge to about 50-60% for long-term storage.
- **Storage:** When not in use, fold the drone arms and store it in its portable storage bag to protect it from dust and impact.

7. TROUBLESHOOTING

- **Drone not powering on:** Ensure the battery is fully charged and correctly installed.
- **Remote controller not connecting:** Ensure both drone and remote are powered on. Re-pair them according to the initial setup instructions.
- **No live video feed:** Check if your phone is connected to the drone's 5G WiFi network. Ensure the app is open and updated.
- **Unstable flight/Drifting:** Perform compass calibration. Check for damaged propellers. Fly in a calm environment.
- **GPS signal weak:** Move to an open outdoor area away from tall buildings or interference.
- **Obstacle avoidance not working:** Ensure sensors are clean and unobstructed. Avoid flying in extremely dark or reflective environments.


8. SPECIFICATIONS

- **Brand:** GoolRC
- **Model Name:** S9S
- **Age Range:** 16 years and up
- **Video Capture Resolution:** 4K (front camera)
- **Video Output Resolution:** 1280x720 Pixels (app live feed)
- **Connectivity Technology:** USB, Wi-Fi (5G)
- **Battery Capacity:** 7.4V 1200mAh
- **Flight Time:** Approximately 25 minutes per battery
- **Control Type:** Remote Control
- **Material:** Plastic
- **Product Dimensions (unfolded):** 9.84"L x 8.66"W x 2.91"H (25cm L x 22cm W x 7.4cm H)
- **Item Weight:** 1.76 pounds (approx. 800g)
- **Motor Type:** Brushless
- **Gimbal:** 2-Axis Mechanical with EIS Anti-Shake

9. WARRANTY AND SUPPORT

GoolRC products are manufactured to high-quality standards. For warranty information, technical support, or service inquiries, please refer to the contact details provided with your purchase documentation or visit the official GoolRC website. Please retain your proof of purchase for warranty claims.

Related Documents - S9S



[Sanag S9S AI OWS Bluetooth Headset User Guide](#)

Comprehensive user guide for the Sanag S9S AI OWS Bluetooth Headset, covering setup, operation, app integration, and troubleshooting.

Documents - GoolRC – S9S



[Comprehensive Catalog of Baby Products and Toys](#)

Explore a diverse catalog featuring essential baby gear, including strollers, car seats, feeding accessories, and a wide selection of engaging toys for children of all ages. Discover top brands and quality products for families.

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