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› GoolRC S2S Drone User Manual

GoolRC S2S

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Model: S2S

1. INTRODUCTION

This manual provides comprehensive instructions for the safe operation, setup, and maintenance of your GoolRC S2S Drone. Please read this manual thoroughly before operating the drone to ensure proper function and to prevent damage or injury.



Figure 1.1: GoolRC S2S Drone with included accessories.

The image displays the GoolRC S2S drone, its remote control, a battery, and a grey carrying case, illustrating the complete product package.

Key Features:

- 4K Dual Camera for high-definition photo and video capture.
- Foldable design for portability.
- Brushless Motor for stable and powerful flight.
- 360° Omnidirectional Obstacle Avoidance for enhanced safety.
- Optical Flow Positioning for stable hovering.
- Intelligent Flight Modes: Headless Mode, Altitude Hold, 3D Flips, Gesture Photo/Video, Trajectory Flight, Intelligent Follow.
- 2.4GHz Control Frequency for reliable connection.
- Long-lasting 1800mAh battery providing approximately 25 minutes of flight time.

2. SETUP GUIDE

2.1 Package Contents

Before starting, verify that all components are present in the package:

- GoolRC S2S Drone
- Remote Control
- Battery (1 included)
- Charging Cable
- Spare Propellers (8 pieces)
- Screwdriver
- Storage Bag
- Operation Manual
- APP Manual

4K**1 Battery****Remote Control*1****Battery*1****Charging cable*1****Spare fan blades*8****Operation manual*1****Screwdriver*1****Storage bag*1****APP manual*1****Figure 2.1: Package List.**

This diagram visually confirms the presence of the drone, remote control, battery, charging cable, spare propellers, screwdriver, storage bag, and both operation and app manuals.

2.2 Drone Assembly and Battery Installation

1. **Unfold the Drone Arms:** Gently unfold the drone's arms until they click into place. The S2S drone features a convenient folding design for portability.

**Video 2.1: Folding Design Demonstration.**

This video clip demonstrates the folding and unfolding mechanism of the GoolRC S2S drone, highlighting its compact design for easy transport.

2. **Install the Battery:** Insert the fully charged modular battery into the designated compartment on the drone until it securely locks. Ensure the battery is properly aligned.



Figure 2.2: Modular Battery.

A close-up image of the drone's modular battery, indicating its 3.7V LiPo voltage and 1800mAh capacity, which provides approximately 25 minutes of flight time.

3. **Charge the Battery:** Connect the charging cable to the battery and a suitable USB power source. The battery indicator lights will show charging status. A full charge provides approximately 25 minutes of flight time.

2.3 Remote Control Setup

The remote control is designed for intuitive operation. Familiarize yourself with its layout:

2.4GHz high frequency return

The transmission distance is long, the anti-interference ability is strong



Figure 2.3: Remote Control with Smartphone.

This image shows the remote control with a smartphone attached, demonstrating the FPV (First Person View) capability via 2.4GHz high-frequency return, ensuring strong anti-interference ability.



Figure 2.4: Remote Controller Introduction.

A detailed diagram of the remote controller, labeling key functions such as Power Switch, Lens Up/Down, Directional Rod, Throttle Stick, Headless Mode, One Button Control, Speed Switching, Avoiding Obstacles Switch, and Photo/Video button. Insert batteries into the remote control (not included, typically AA batteries). Mount your smartphone onto the remote

control's holder for FPV viewing and advanced control features via the app.

2.4 App Installation and Connection

Download the official GoolRC S2S app from your smartphone's app store (refer to the included APP Manual for QR codes or direct links). Follow the in-app instructions to connect your drone to your smartphone via Wi-Fi for real-time transmission and access to intelligent flight modes.

3. OPERATING INSTRUCTIONS

3.1 Pre-Flight Checks

- Ensure drone and remote control batteries are fully charged.
- Verify propellers are securely attached and undamaged.
- Choose an open area free from obstacles, people, and animals.
- Check weather conditions; avoid flying in strong winds or rain.
- Power on the drone first, then the remote control.
- Connect the drone to the app on your smartphone.

3.2 Take-off and Landing

1. **One-Click Take-off:** After calibration, press the one-click take-off button on the remote control or in the app. The drone will automatically ascend to a safe hovering altitude.

Your browser does not support the video tag.

Video 3.1: Drone Features and Flight Demonstration.

This video showcases various features of the GoolRC S2S drone, including its folding design, one-click takeoff, optical flow localization, brushless motor, 4K camera, real-time transmission, 360-degree omnidirectional obstacle avoidance, intelligent follow, 360-degree roll, gesture photography, trajectory flight, and one-click landing. It provides a comprehensive visual guide to the drone's capabilities.

2. **Manual Take-off:** Alternatively, push both control sticks down and outwards to arm the motors, then slowly push the left stick (throttle) upwards to ascend.
3. **One-Click Landing:** Press the one-click landing button. The drone will automatically descend and land gently.
4. **Manual Landing:** Slowly pull the left stick (throttle) downwards until the drone lands. Once landed, push both control sticks down and inwards to disarm the motors.

3.3 Flight Controls (Remote Controller)

- **Left Stick (Throttle/Yaw):**
 - Up/Down: Ascend/Descend
 - Left/Right: Rotate drone left/right (Yaw)
- **Right Stick (Forward/Backward/Side Fly):**
 - Up/Down: Fly forward/backward
 - Left/Right: Fly left/right (Sideways)
- **Speed Switching:** Use the dedicated button on the remote to switch between different flight speeds (e.g., low, medium, high) for varying control responsiveness.

3.4 Camera Operation

The GoolRC S2S drone is equipped with a 4K dual camera system, allowing for versatile photo and video capture.



Figure 3.1: 4K Lens Electrical Camera.

This image highlights the drone's 4K lens electrical camera, emphasizing its high-definition image imaging effect for clear and vivid captures.

Dual camera switch More comprehensive angle

Gao Liang Night Air Lights are not afraid of flying at night



Figure 3.2: Dual Camera Switch.

A visual representation of the drone's dual camera system, allowing users to switch between the front and bottom cameras for a more comprehensive viewing angle, even in low light conditions.

- **Switching Cameras:** Use the dedicated button on the remote or within the app to switch between the front 4K camera and the bottom optical flow camera.
- **Camera Angle Adjustment:** The 4K camera features 90° angle control and a 120° wide-angle lens. Adjust the camera angle using the designated buttons on the remote control (Lens Up/Down).
- **Taking Photos/Videos:** Press the Photo/Video button on the remote control to capture images or start/stop video recording.
- **Gesture Photo/Video:** While the drone is in the air, make specific hand gestures towards the drone's camera to trigger photo or video capture. Refer to the APP Manual for specific gestures.

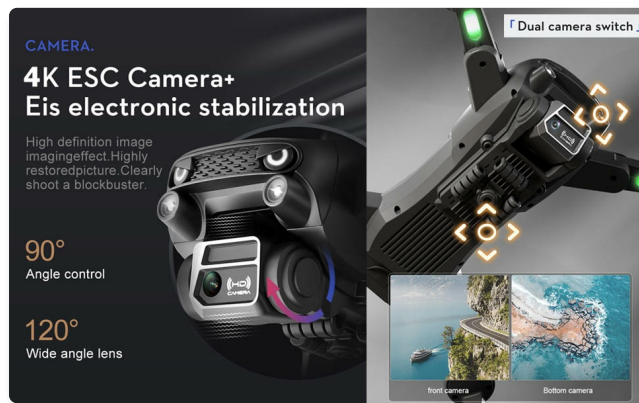


Figure 3.3: Gesture Photo/Video.

This image illustrates a user performing a hand gesture, indicating the drone's capability to take photos or videos automatically in response to specific hand signals.

3.5 Intelligent Flight Modes

- **Altitude Hold Mode:** The drone maintains a stable altitude, allowing you to focus on directional control and camera operation.
- **Headless Mode:** In Headless Mode, the drone's orientation is relative to the pilot, eliminating the need to adjust its position before flying.
- **360° Omnidirectional Obstacle Avoidance:** The drone is equipped with sensors that detect obstacles in all directions, automatically adjusting its flight path to avoid collisions.

360 ° four -way laser obstacle avoidance

Precise detection and perception of comprehensive guardianship



Figure 3.4: 360° Obstacle Avoidance.

This image highlights the drone's 360-degree four-way laser obstacle avoidance system in action, highlighting its precise detection and comprehensive guardianship capabilities.

- **Optical Flow Positioning:** This feature uses a downward-facing camera to analyze ground patterns, providing stable hovering and precise positioning, especially in indoor environments or areas with weak GPS signals.



Figure 3.5: Streaming Precision Positioning (Optical Flow).

The image depicts the drone hovering, illustrating its optical flow positioning feature that uses high-frequency chips for stable indoor and outdoor hovering.

- **Intelligent Follow:** In this mode, the drone will automatically follow a designated subject (e.g., the pilot) while maintaining a safe distance and capturing footage. Activate this feature via the app.



Figure 3.6: Smart Follow.

This image demonstrates the drone's Smart Follow mode, where it autonomously tracks a moving subject, acting as a helpful companion for capturing dynamic footage.

- **3D Flips:** Execute impressive aerial acrobatics with a single button press. Ensure sufficient altitude and clear surroundings before attempting 3D flips.



Figure 3.7: 3D Flip.

An image capturing the drone mid-air as it performs a 3D flip, showcasing its acrobatic capabilities.

- **Trajectory Flight:** Draw a desired flight path on your smartphone screen within the app. The drone will then automatically follow this pre-defined route.

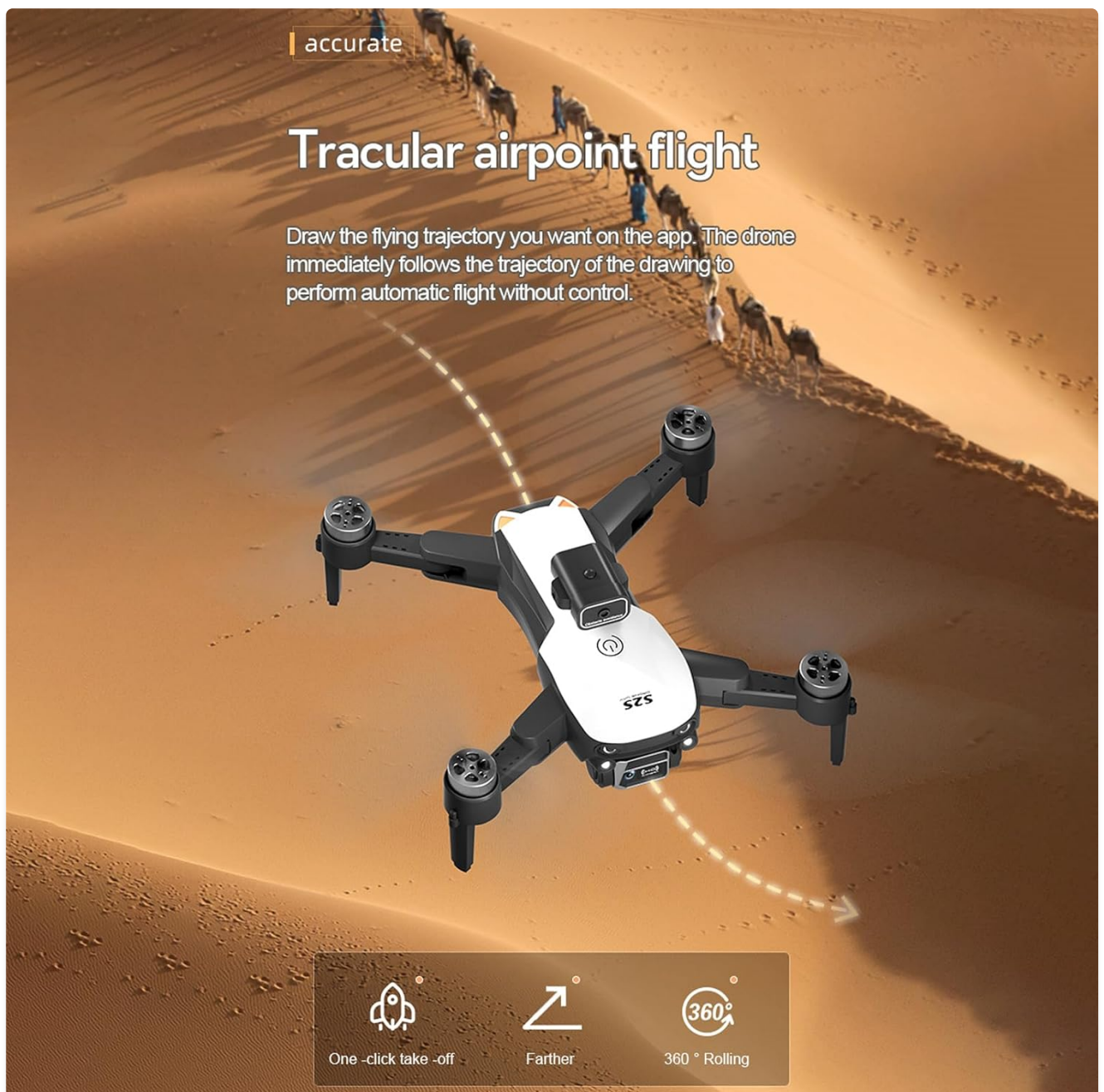


Figure 3.8: Trajectory Airpoint Flight.

This image illustrates the drone's trajectory flight feature, where it follows a pre-drawn path on the app, enabling automatic flight without continuous manual control.

- **Circumferential Flight:** Set a point of interest, and the drone will circle around it, capturing panoramic footage.



Figure 3.9: Circumferential Flight.

An image depicting the drone executing a circumferential flight around a lighthouse, demonstrating its ability to capture wide-angle scenes by orbiting a central point.

4. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your GoolRC S2S Drone.

- **Cleaning:** Use a soft, dry cloth to clean the drone body and camera lens. Avoid using harsh chemicals or abrasive materials.
- **Propeller Inspection:** Regularly check propellers for cracks, bends, or damage. Replace any damaged propellers immediately using the provided spare parts and screwdriver.
- **Motor Care:** The brushless motors are designed for durability. Keep them free from dust and debris.

Upgrade motor

Brushless power level 7 anti -wind resistance

4^{One}

Brushless
Motor

3200

Power
output

change

7^{class}

Strong wind
resistance



Figure 4.1: Brushless Motor.

This image provides a detailed view of the drone's brushless motor, highlighting its power level 7 anti-wind resistance and efficient power output.

- **Battery Storage:** Store batteries in a cool, dry place away from direct sunlight. For long-term storage, charge batteries to approximately 50% capacity.
- **Storage Case:** Utilize the provided storage bag to protect the drone and its components during transport and storage.



Figure 4.2: Convenient Storage Bag.

An image showcasing the drone and its accessories neatly packed inside the grey carrying case, emphasizing its portability and ease of storage.

5. TROUBLESHOOTING

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 to drone.	Incorrect pairing procedure; interference.	Follow pairing instructions in the APP Manual. Move to an area with less interference.
Drone drifts during flight.	Improper calibration; strong wind.	Perform gyroscope and compass calibration. Avoid flying in windy conditions.
Poor image/video quality.	Dirty camera lens; insufficient lighting; Wi-Fi interference.	Clean lens. Ensure adequate lighting. Reduce Wi-Fi interference.
Obstacle avoidance not working.	Sensors obstructed; low light conditions.	Ensure sensors are clean and unobstructed. Operate in well-lit environments.

6. SPECIFICATIONS

Feature	Detail
Product Dimensions (Folded)	4.4 x 5.3 x 3.2 inches (approx.)
Product Dimensions (Unfolded)	7.1 x 6.4 x 3.2 inches (approx.)
Item Weight	1.56 pounds
Battery Capacity	3.7V 1800mAh LiPo
Flight Time	Approximately 25 minutes
Camera	4K Dual Camera (Front & Bottom)
Motor Type	Brushless Motor
Control Frequency	2.4GHz
Obstacle Avoidance	360° Omnidirectional
Recommended Age	16 years and up

Feature	Detail
Country of Origin	China



Figure 6.1: Drone Dimensions.

This image provides a visual representation of the drone's dimensions both when folded (11.2cm/4.4inch x 13.6cm/5.3inch x 8.3cm/3.2inch) and unfolded (18cm/7.1inch x 16.7cm/6.4inch x 8.3cm/3.2inch).

7. 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 on the product packaging or visit the official GoolRC website. Keep your purchase receipt as proof of purchase for warranty claims. For additional support, you may visit the GoolRC Store on Amazon:[GoolRC Amazon Store](#).

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Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question