

## GoolRC S2S

# GoolRC S2S 4K Dual Camera Drone User Manual

Model: S2S

## 1. INTRODUCTION

This manual provides essential instructions for the safe operation, setup, and maintenance of your GoolRC S2S 4K Dual Camera Drone. Please read this manual thoroughly before operating the drone to ensure proper function and to prevent damage or injury.

### Safety Guidelines

- Always operate the drone in open areas, away from people, animals, and obstacles.
- Do not fly near airports, restricted airspace, or sensitive areas.
- Ensure the battery is fully charged before each flight.
- Avoid flying in strong winds or adverse weather conditions.
- Keep fingers and loose clothing away from rotating propellers.
- Children should only operate the drone under direct adult supervision.

## 2. PACKAGE CONTENTS

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

- GoolRC S2S Drone
- Remote Control
- Flight Battery (x2)
- USB Charging Cable
- Spare Propellers (x4)
- Screwdriver
- Carrying Case
- User Manual (this document)

4K



2 Battery



Remote Control\*1



Battery\*2



Charging cable\*1



Spare fan blades\*8



Operation manual\*1



Screwdriver\*1



Storage bag\*1



APP manual\*1

Image: Complete package contents of the GoolRC S2S Drone.

### 3. PRODUCT OVERVIEW

#### Drone Components



Image: The GoolRC S2S Drone, showcasing its foldable design and dual cameras.

- **Front Camera:** 4K HD camera for high-resolution photos and videos.
- **Bottom Camera:** Provides optical flow positioning and an alternative view.
- **Obstacle Avoidance Sensor:** Detects obstacles to prevent collisions.
- **Brushless Motors:** Provide stable and powerful flight performance.
- **Foldable Arms:** Allow for compact storage and portability.
- **LED Lights:** Indicate drone status and aid in orientation.

## Remote Control Components

## Remote Controller Introduction



Image: Detailed view of the remote controller with labeled functions.

- **Throttle Stick (Left):** Controls altitude and yaw (rotation).
- **Directional Rod (Right):** Controls forward/backward and left/right movement.
- **Power Switch:** Turns the remote control on/off.
- **One-touch Roll:** Initiates 3D flip maneuvers.
- **Headless Mode Button:** Activates headless flight mode.
- **One Button Control:** For one-key takeoff/landing.
- **Speed Switching:** Adjusts flight speed (low/medium/high).
- **Lens Up/Down:** Adjusts camera angle.
- **Avoiding Obstacles Switch:** Toggles obstacle avoidance feature.
- **Photo/Video Button:** Captures photos or starts/stops video recording.

## 4. SETUP

### 4.1 Battery Installation and Charging

1. Insert the fully charged flight battery into the drone's battery compartment until it clicks securely into place.
2. To charge the battery, connect it to the USB charging cable and plug the cable into a USB power source (e.g., computer, USB wall adapter). The indicator light on the battery will show charging status.
3. The remote control typically uses AAA batteries (not included). Open the battery compartment on the back of the remote and insert the batteries according to the polarity markings.

Upgrade motor

## Brushless power level 7 anti -wind resistance

4<sup>One</sup>

Brushless  
Motor

3200<sup>change</sup>

Power  
output

7<sup>class</sup>

Strong wind  
resistance



Image: Modular battery for the GoolRC S2S Drone.

### 4.2 Propeller Installation

Ensure propellers are correctly installed. Each propeller is marked with 'A' or 'B'. Match the propeller to the corresponding motor arm. Incorrect installation will prevent proper flight.

### 4.3 App Download and Connection

1. Scan the QR code in the APP Manual or search for the designated app (e.g., 'S2S FPV') in your smartphone's app store (compatible with Android 5.0+ and iOS 9.0+).
2. Turn on the drone and the remote control.
3. On your smartphone, go to Wi-Fi settings and connect to the drone's Wi-Fi network (usually named 'FLOW\_RC\_XXXXXX').
4. Open the drone app. The live video feed from the drone's camera should appear.

Video: Demonstrates connecting the drone to a smartphone and performing basic flight operations like one-key takeoff and landing.

## 5. OPERATING INSTRUCTIONS

### 5.1 Basic Flight Operations

1. **Power On:** Place the drone on a flat surface. Press and hold the power button on the drone until the indicator lights turn on. Turn on the remote control.
2. **Pairing:** Push the left joystick (throttle) up and then down. The drone's lights will stop flashing, indicating successful pairing.
3. **One-Key Takeoff:** Press the one-key takeoff/landing button on the remote control. The drone will automatically ascend and hover at a stable altitude.
4. **Controlling Flight:** Use the left joystick for altitude and rotation. Use the right joystick for forward, backward, left, and right movements.
5. **One-Key Landing:** Press the one-key takeoff/landing button again. The drone will automatically descend and land gently.

### 5.2 Advanced Features

Video: Overview of the GoolRC S2S Drone's key features and flight modes.

- **Headless Mode:** Press the Headless Mode button. In this mode, the drone's orientation is relative to the pilot, regardless of the drone's front direction. This simplifies control for beginners.
- **Altitude Hold:** The drone maintains a stable altitude automatically, allowing for easier control and clearer aerial photography.
- **Obstacle Avoidance:** Activate the obstacle avoidance feature using the dedicated button on the remote. The drone will automatically detect and avoid obstacles in its path, enhancing flight safety.

# 360 ° four -way laser obstacle avoidance

Precise detection and perception of comprehensive guardianship



Image: The drone's 360-degree obstacle avoidance system in action.

- **Gesture Photo/Video:** While the drone is in the air, make specific hand gestures towards the camera. The drone will recognize these gestures to automatically take photos or start/stop video recording.

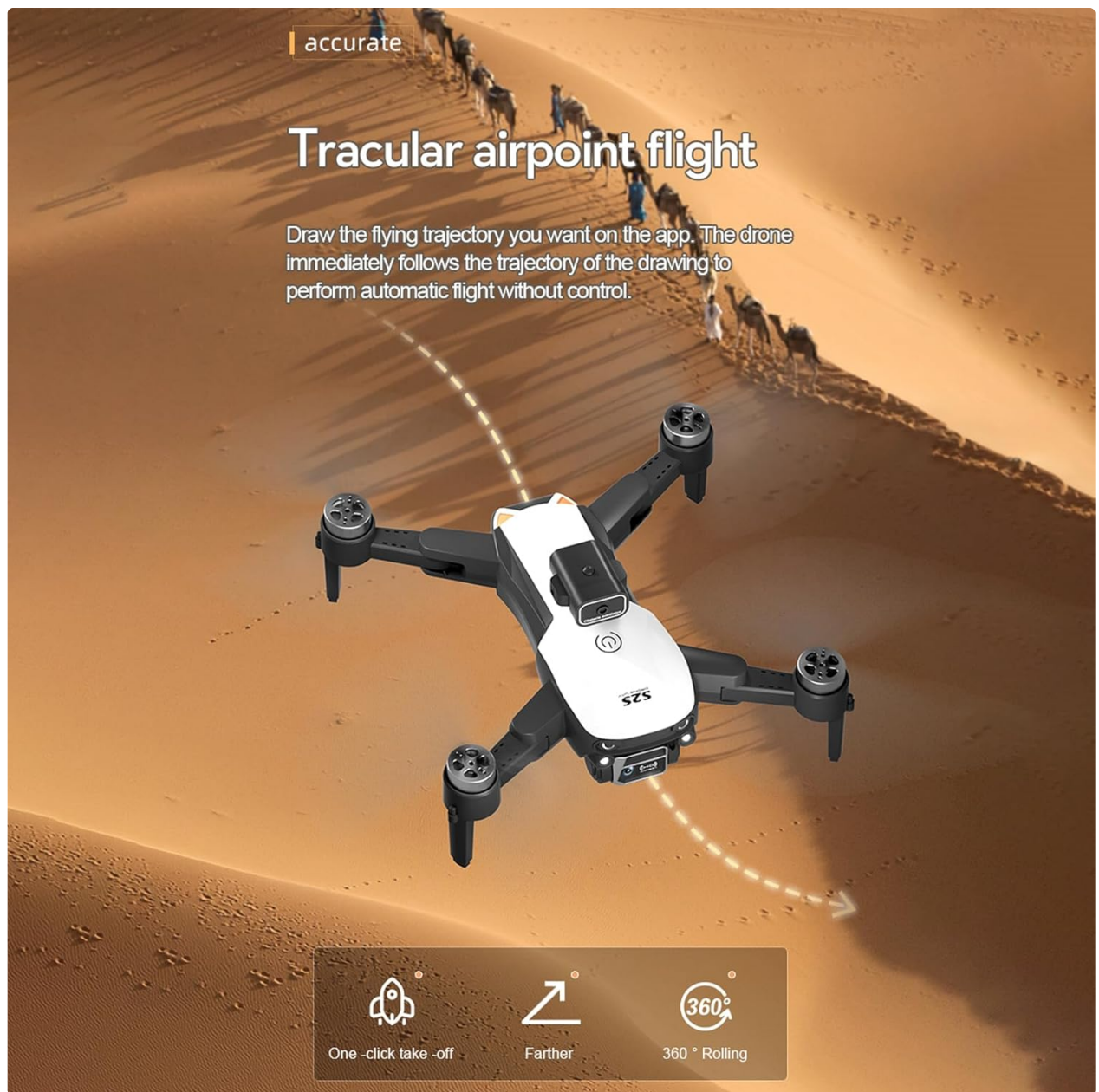


Image: User demonstrating gesture control for photo/video capture.

- **Trajectory Flight:** In the app, draw a desired flight path on the screen. The drone will automatically follow this trajectory, allowing for hands-free flight along a predetermined route.

Upgrade motor

## Brushless power level 7 anti -wind resistance

4<sup>One</sup>

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Motor

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Power  
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7<sup>class</sup>

Strong wind  
resistance



Image: Drone executing a trajectory flight based on a user-drawn path.

- **3D Flips:** Press the one-touch roll button on the remote control to perform impressive 3D aerial stunts. Ensure sufficient altitude and clear surroundings before attempting.

accurate

# Streaming precision positioning

Quickly recognize high-frequency chips to achieve indoor and outdoor stabilization hovering



Image: The drone executing a 3D flip maneuver.

- **Optical Flow Positioning:** The drone utilizes a bottom camera to analyze ground patterns, providing precise hovering and stable flight, especially in indoor environments or areas with weak GPS signals.

# 2.4GHz high frequency return

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



Image: Drone maintaining stable position using optical flow technology.

## 6. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the drone and remote control. Do not use harsh chemicals or solvents.
- **Propellers:** Regularly inspect propellers for damage (cracks, bends). Replace damaged propellers immediately using the provided screwdriver and spare parts.
- **Battery Care:** Store batteries in a cool, dry place. Do not overcharge or over-discharge. If storing for extended periods, charge to approximately 50%.
- **Storage:** When not in use, fold the drone arms and store all components in the carrying case to protect them from dust and damage.

## 7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Drone does not respond to remote.	Not paired; low battery; out of range.	Re-pair drone and remote; charge batteries; ensure drone is within operating range.
Drone drifts during flight.	Not calibrated; uneven surface at takeoff; wind interference.	Calibrate the drone on a flat surface; fly in calm conditions.
Camera feed is unstable or disconnected.	Weak Wi-Fi signal; app issue.	Ensure strong Wi-Fi connection; restart app and drone; try a different location.
Propellers do not spin.	Propeller obstruction; motor damage; low battery.	Check for obstructions; replace damaged motors/propellers; charge battery.
Obstacle avoidance not working.	Feature disabled; sensor obstruction; specific lighting conditions.	Ensure feature is enabled; clean sensors; test in different lighting.

## 8. SPECIFICATIONS

Feature	Detail
Brand	GoolRC
Model Name	S2S
Video Capture Resolution	4K
Connectivity Technology	Wi-Fi
Battery Capacity	1800 mAh (3.7V)
Flight Time	Approximately 25 minutes
Control Type	Remote Control
Material	Plastic
Product Dimensions (Unfolded)	7.09"L x 6.57"W x 3.27"H
Item Weight	1.56 pounds
Recommended Age	14 years and up




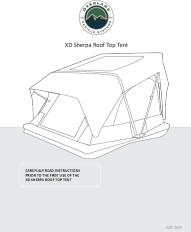
Feature	Detail
Special Features	4K Dual Camera, Foldable, Brushless Motor, 3D Flips, Obstacle Avoidance, Optical Flow, Headless Mode, Altitude Hold, Gesture Photo/Video, Trajectory Flight

## 9. WARRANTY AND SUPPORT

For warranty information and customer support, please refer to the documentation included with your purchase or visit the official GoolRC website. You can also contact the seller directly for assistance.

GoolRC Store: [Visit the GoolRC Store on Amazon](#)

### Related Documents - S2S

 <p>[S2S] MANUAL Please keep the manual for routine maintenance!</p>	<p><a href="#">S2S Drone User Manual and Flight Guide</a></p> <p>Comprehensive guide to operating the S2S drone, including battery installation, remote control functions, flight preparation, environmental requirements, basic operations, and advanced flight features. Learn about calibration, take-off, landing, speed adjustment, headless mode, camera control, rolling, photo/video capture, and obstacle avoidance.</p>
	<p><a href="#">Sealight S2S LED Headlight Bulb Installation and User Manual</a></p> <p>Comprehensive guide for installing and using Sealight S2S LED headlight bulbs, including product specifications, installation instructions, troubleshooting tips, and warranty information.</p>
	<p><a href="#">S2S Electronics Softdrive Operators Manual LCD Keypad</a></p> <p>This manual provides detailed information on the operation, specifications, installation, programming, and troubleshooting of the S2S Electronics Softdrive LCD Keypad. It covers features such as ramp-up and ramp-down control, current limiting, overload protection, and various communication options.</p>
	<p><a href="#">XD Sherpa Roof Top Tent Setup and Care Instructions</a></p> <p>Comprehensive guide for setting up, using, and caring for the Overland Vehicle Systems XD Sherpa Roof Top Tent. Includes component lists, assembly steps, cleaning instructions, and important safety warnings.</p>



### [SLS LS-S2S RC Dron s Dvojitou HD Kamerou - Návod k Použití](#)

Kompletní návod k použití pro dron SLS LS-S2S s dvojitou HD kamerou. Zahrnuje bezpečnostní pokyny, podrobný popis dronu, instalaci, nabíjení, ovládání, pokročilé letové funkce a tipy pro optimální provoz.