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› Goolsky CSJ S161 Mini Pro 4K Camera Drone User Manual

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Model: S161 Mini Pro

1. INTRODUCTION

The Goolsky CSJ S161 Mini Pro RC Drone is a compact and feature-rich quadcopter designed for aerial photography and recreational flight. It includes a 4K camera, altitude hold, Follow Me mode, gesture control for photos and videos, and track flight capabilities. This manual provides essential information for the safe and effective operation and maintenance of your drone.

2. SAFETY GUIDELINES

- Always operate the drone in open areas, away from people, animals, buildings, and obstacles.
- Do not fly in strong winds, rain, or other adverse weather conditions.
- Maintain a safe distance from the drone during operation.
- Ensure the drone battery is fully charged and the remote controller has sufficient power before each flight.
- Read and understand all instructions in this manual before operating the drone.
- Children should only operate the drone under direct adult supervision.
- Respect local regulations and privacy laws regarding drone operation and aerial photography.

3. PACKAGE CONTENTS

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

- 1 x S161 Mini Pro RC Aircraft
- 1 x Remote Controller
- 2 x Spare Propellers
- 4 x Propeller Guards
- 1 x Screwdriver
- 1 x User Manual (this document)
- 1 x Aircraft Battery
- 1 x USB Charging Cable

- 1 x Storage Bag

4. PRODUCT OVERVIEW

4.1. S161 Mini Pro Drone

The S161 Mini Pro drone features a foldable design for portability and is equipped with a 4K camera for high-resolution aerial photography and video recording. It integrates various flight assistance systems for stable and enjoyable flight.



Image: The Goolsky S161 Mini Pro drone in its unfolded state, ready for flight.

4.2. Remote Controller

The remote controller operates on a 2.4 GHz frequency, providing a stable connection to the drone. It features various control sticks and buttons for precise flight maneuvers and function activation. A smartphone can be mounted to the controller for real-time video transmission.

ONE KEY TO RETURN

With one key return system, you don't have to worry lost of drone due to improper control.



Image: The remote controller for the S161 Mini Pro drone, shown with a smartphone attached for FPV viewing.

5. SETUP

5.1. Drone Battery Installation and Charging

1. Insert the 3.7V 1600mAh LiPo battery into the drone's battery compartment. Ensure it clicks securely into place.
2. Connect the USB charging cable to the drone battery and a suitable USB power adapter (not included).
3. The charging time is approximately 2 hours. Do not leave the battery charging unattended.
4. The intelligent module battery features indicator lights to show the charge status.

Intelligent Module Battery

offer efficient power



Module Design

easy to install, with
power indicator light



3.7V 1600mAh

large capacity, long battery life

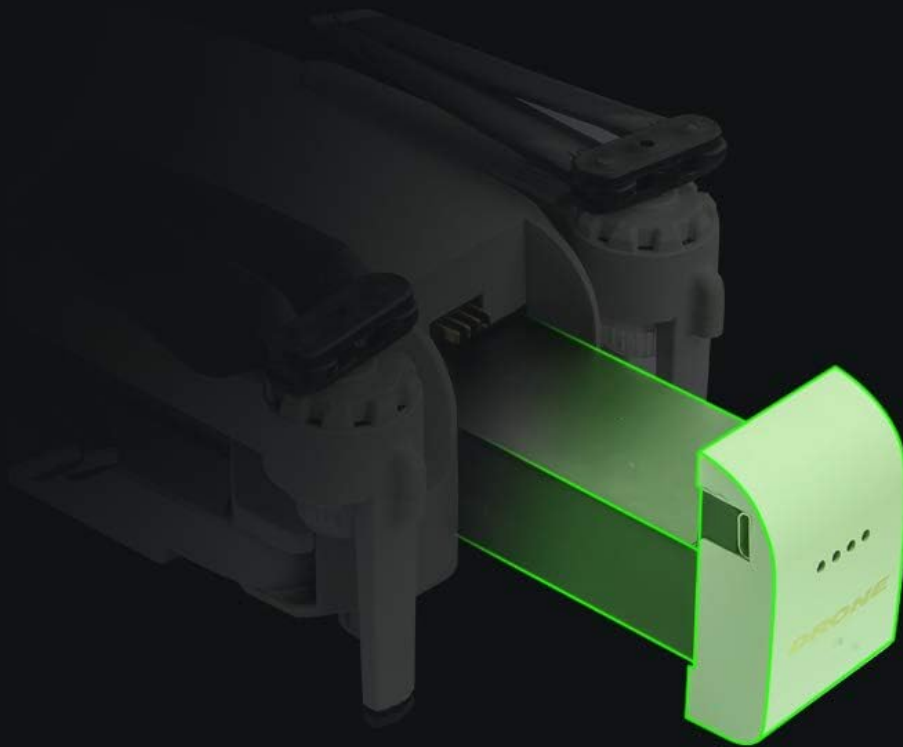


Image: A close-up of the intelligent module battery, highlighting its design and capacity.

5.2. Remote Controller Battery Installation

Open the battery compartment on the back of the remote controller and insert 4 x 1.5V AAA batteries (not included), observing the correct polarity.

5.3. Propeller Installation and Guard Attachment

Attach the propellers to the motor shafts according to the markings (A and B) on the propellers and drone arms. Secure them with the provided screws using the screwdriver. For added safety, attach the propeller guards to the drone arms.

6. OPERATING INSTRUCTIONS

6.1. Basic Flight Controls

- **Take-off/Landing:** Use the one-key take-off/landing button for automated ascent and descent.

- **Ascend/Descend:** Control the left joystick (throttle) to adjust altitude.
- **Forward/Backward:** Control the right joystick to move the drone forward or backward.
- **Turn Left/Right:** Control the left joystick (yaw) to rotate the drone clockwise or counter-clockwise.
- **Sideward Flight:** Control the right joystick to move the drone left or right sideways.

6.2. Advanced Flight Features



Image: The S161 Mini Pro drone illustrating its various flight modes, including Track Flight, Headless Mode, and Emergency Stop.

- **Altitude Hold:** The drone can automatically lock its altitude and position, allowing the pilot to focus on camera control without constantly adjusting the throttle. This feature provides stable hovering for clearer photos and videos.



Image: A visual comparison demonstrating the stability provided by the Altitude Hold feature, showing a clear fixed height effect versus no fixed height effect.

- **One Key Return:** With the one-key return system, the drone can automatically fly back to its take-off point, reducing the risk of loss due to improper control or signal issues.
- **Track Flight (Trajectory Flight):** Draw a desired flight path on your smartphone screen, and the drone will automatically follow this route, capturing footage along the way. This enhances the flight experience by allowing pre-planned aerial maneuvers.

Track Flight

The drone allows you to set a desired flight path with a set of specific points, elevating the flight experience.



Image: The Track Flight feature in action, showing the drone following a pre-set path indicated by red markers on a map.

- **Gesture Recognition (Photo/Video):** Perform specific hand gestures in front of the drone's camera to trigger photo capture (e.g., "Victory" gesture) or video recording (e.g., "Palm" gesture). This offers a convenient way to take selfies or start recording without touching the remote controller.

Gesture Recognition



Image: Illustrations of hand gestures for triggering photo and video recording with the drone's camera.

- **Real-time Transmission (FPV):** Connect your smartphone to the drone via Wi-Fi to receive a live video feed from the 4K camera. The FPV range is up to 80 meters, providing an immersive flying experience.

Real-time Transmission

Live transmission system gives high-quality image on mobile device. The FPV range is up to 80m.



Image: A person operating the drone with a remote controller and smartphone, demonstrating the real-time video transmission feature.

- **Headless Mode:** In Headless Mode, the drone's orientation is irrelevant; it will move relative to the pilot's position. This simplifies control, especially for beginners.
- **Emergency Stop:** In case of an emergency or loss of control, activate the emergency stop function to immediately power down the drone's motors.
- **3D Flip:** Perform acrobatic 3D flips with a press of a button, adding excitement to your flight.

6.3. 4K Camera Operation

The integrated 4K camera captures high-resolution photos (4096 x 2160) and videos (2160 x 1080 at 20 frames per second). The camera angle is adjustable by 180 degrees. Use the dedicated buttons on the remote controller or gestures to capture media.

record your wonderful moments

Excellent Aerial Shooting Effects



Photograph



Image: Examples of aerial photographs demonstrating the camera's capability to capture various scenes.

7. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the drone and remote controller. Avoid using solvents or harsh chemicals.
- **Propellers:** Regularly inspect propellers for damage (cracks, bends). Replace any damaged propellers immediately using the spare parts provided.
- **Battery Care:** Store batteries in a cool, dry place. Do not overcharge or over-discharge the battery. If storing for extended periods, charge the battery to approximately 50%.
- **Storage:** When not in use, store the drone and its accessories in the provided storage bag to protect them from dust and physical damage.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Drone does not power on.	Battery not installed correctly or discharged.	Ensure battery is fully charged and properly inserted.
Remote controller does not power on.	AAA batteries are dead or incorrectly installed.	Replace AAA batteries, ensuring correct polarity.
Drone does not respond to controls.	Not paired with remote controller, out of range, or interference.	Re-pair the drone and controller. Ensure you are within the 150m operating range. Avoid areas with strong Wi-Fi signals.
Poor image/video quality or no FPV feed.	Weak Wi-Fi signal, too far from drone, or app issue.	Ensure smartphone is connected to the drone's Wi-Fi. Fly closer to the drone (within 80m FPV range). Restart the app and drone.
Short flight time.	Battery not fully charged, old battery, or aggressive flying.	Fully charge the battery. Consider replacing old batteries. Fly more conservatively.
Drone drifts during flight.	Calibration needed or environmental factors (wind).	Perform gyroscope calibration as per the drone's specific instructions (usually a joystick combination). Fly in calm conditions.

9. SPECIFICATIONS

Feature	Detail
Model	S161 Mini Pro
Unfolded Size	30.5 x 30 x 6.7 cm (12 x 11.81 x 2.64 inches)
Folded Size	15.5 x 9.8 x 6.7 cm (6.1 x 3.86 x 2.64 inches)
Max Flight Time	12 minutes
Remote Control Range	150 meters
Operating Frequency	2.4 GHz
Camera Resolution (Photo)	4096 x 2160 (4K)
Camera Resolution (Video)	2160 x 1080
Video Frame Rate	20 fps
Adjustable Camera Angle	180 degrees
Image Transmission Distance (FPV)	80 meters

Feature	Detail
Drone Battery	3.7V 1600mAh LiPo
Drone Battery Charging Time	Approximately 2 hours
Remote Controller Battery	4 x 1.5V AAA (not included)
Recommended Age	14+

10. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided at the point of purchase or contact the retailer/manufacturer directly. Keep your purchase receipt as proof of purchase.

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

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