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GoolRC LS-E525

GoolRC LS-E525 RC Drone User Manual

Model: LS-E525

1. Introduction

This manual provides detailed instructions for the safe operation, setup, and maintenance of your GoolRC LS-E525 RC Drone. Please read this manual thoroughly before operating the drone to ensure proper function and to prevent damage or injury. Keep this manual for future reference.

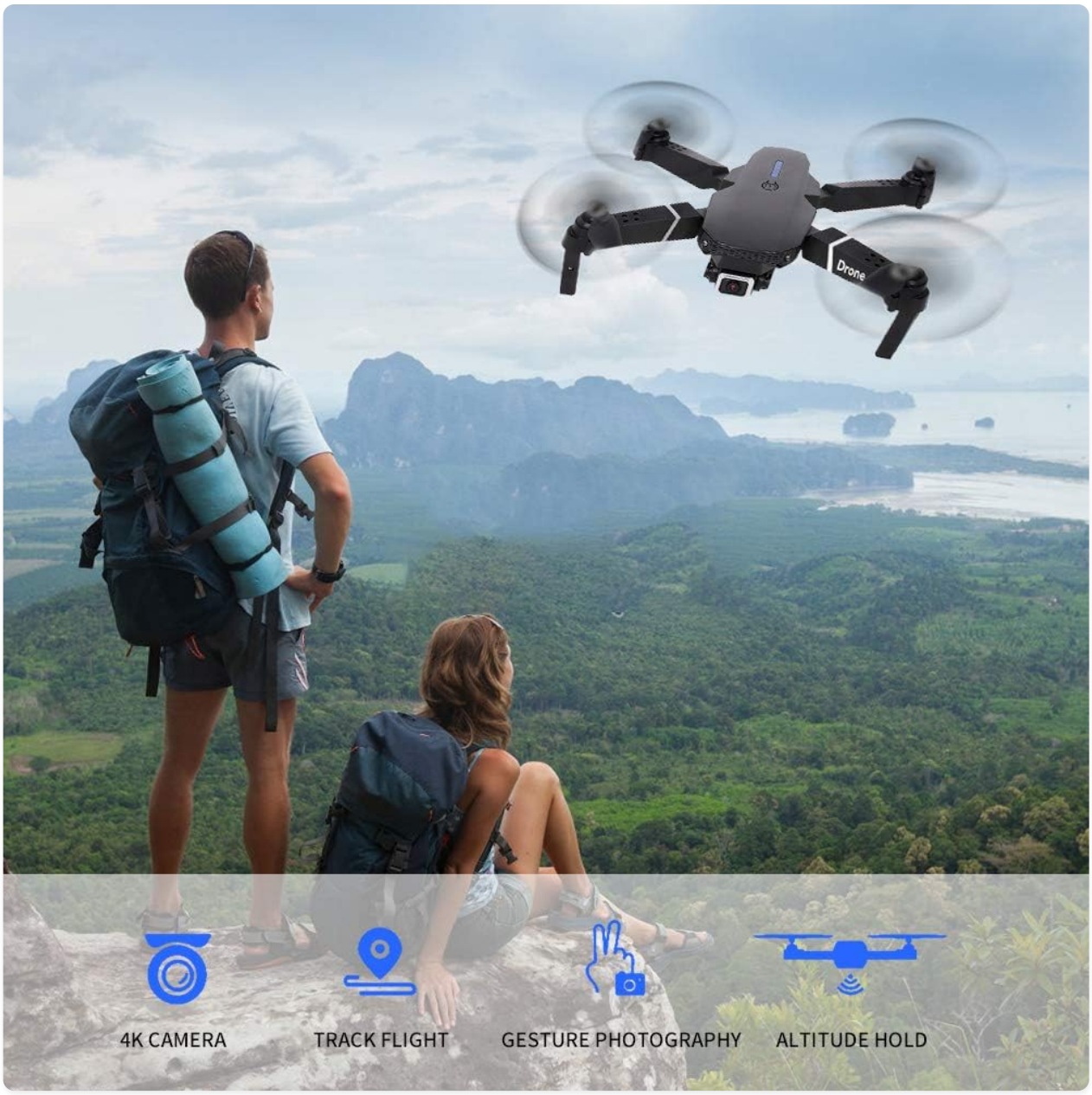

Image: The GoolRC LS-E525 drone in flight, showcasing its key features such as 4K camera capabilities, track flight, gesture photography, and altitude hold.

2. Package Contents

Verify that all items listed below are included in your package. If any items are missing or damaged, please contact customer support.

- 1 x GoolRC LS-E525 RC Drone
- 1 x Remote Controller
- 4 x Propeller Guards
- 4 x Spare Blades
- 1 x Screwdriver
- 1 x USB Charging Cable
- 1 x User Manual
- 2 x Drone Batteries (3.7V 1800mAh Lithium)
- 1 x Storage Bag

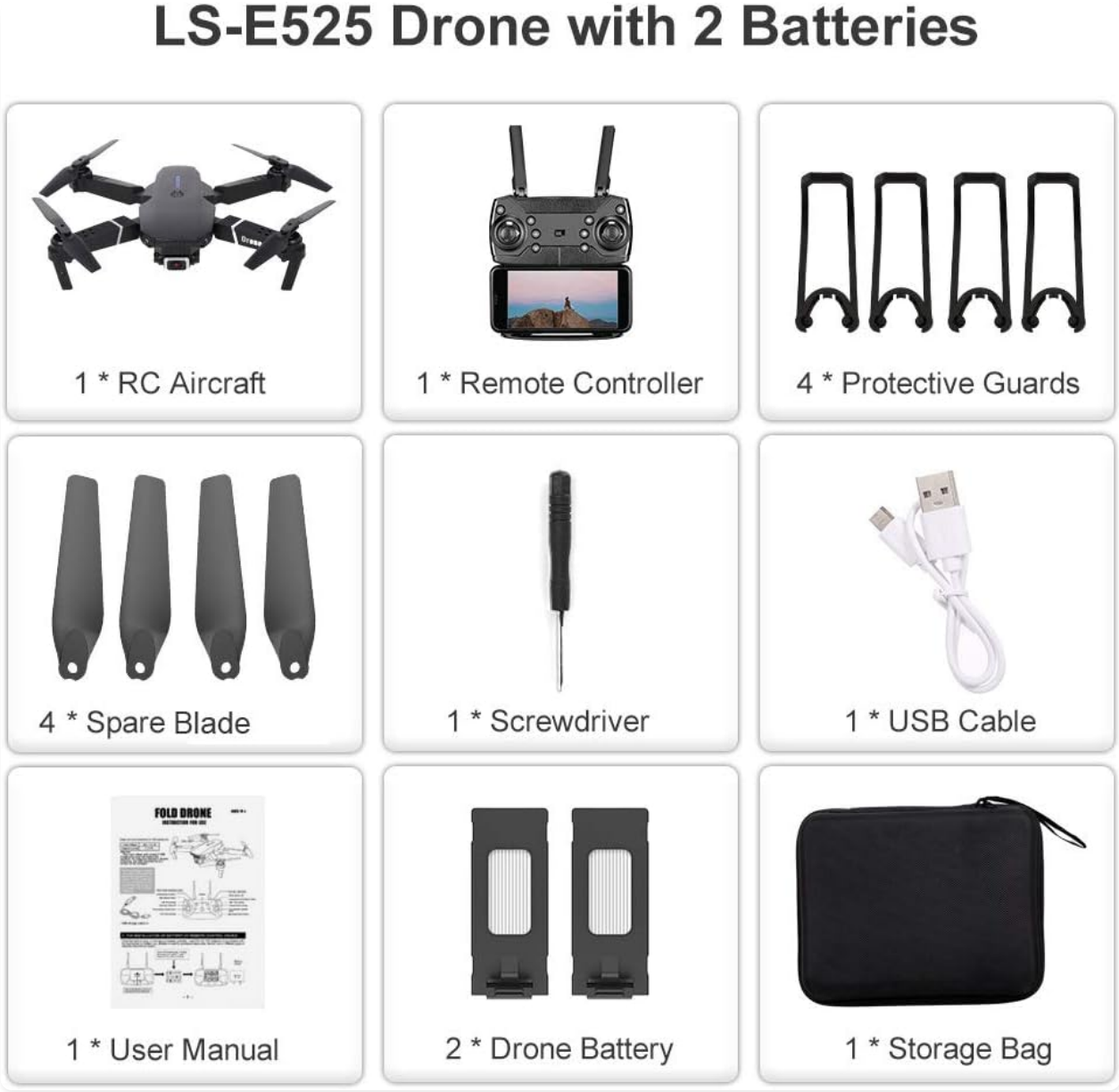

Image: A visual representation of all components included in the GooIRC LS-E525 drone package.

3. Setup

3.1 Battery Installation and Charging

Drone Battery:

1. Insert the 3.7V 1800mAh Lithium battery into the drone's battery compartment. Ensure it clicks into place securely.
2. To charge, connect the drone battery to the USB charging cable. Plug the USB cable into a 5V/1A USB power adapter (not included).
3. The charging indicator will show the charging status. Charging time is approximately 100 minutes.

Remote Controller Batteries:

1. Open the battery compartment on the back of the remote controller.
2. Insert 3 x 1.5V AA batteries (not included), observing the correct polarity (+/-).
3. Close the battery compartment.

3.2 Drone Preparation

The LS-E525 drone features a foldable design for portability.

1. Gently unfold the drone's arms until they are fully extended and locked into position.
2. Ensure all propellers are securely attached and free from obstruction.

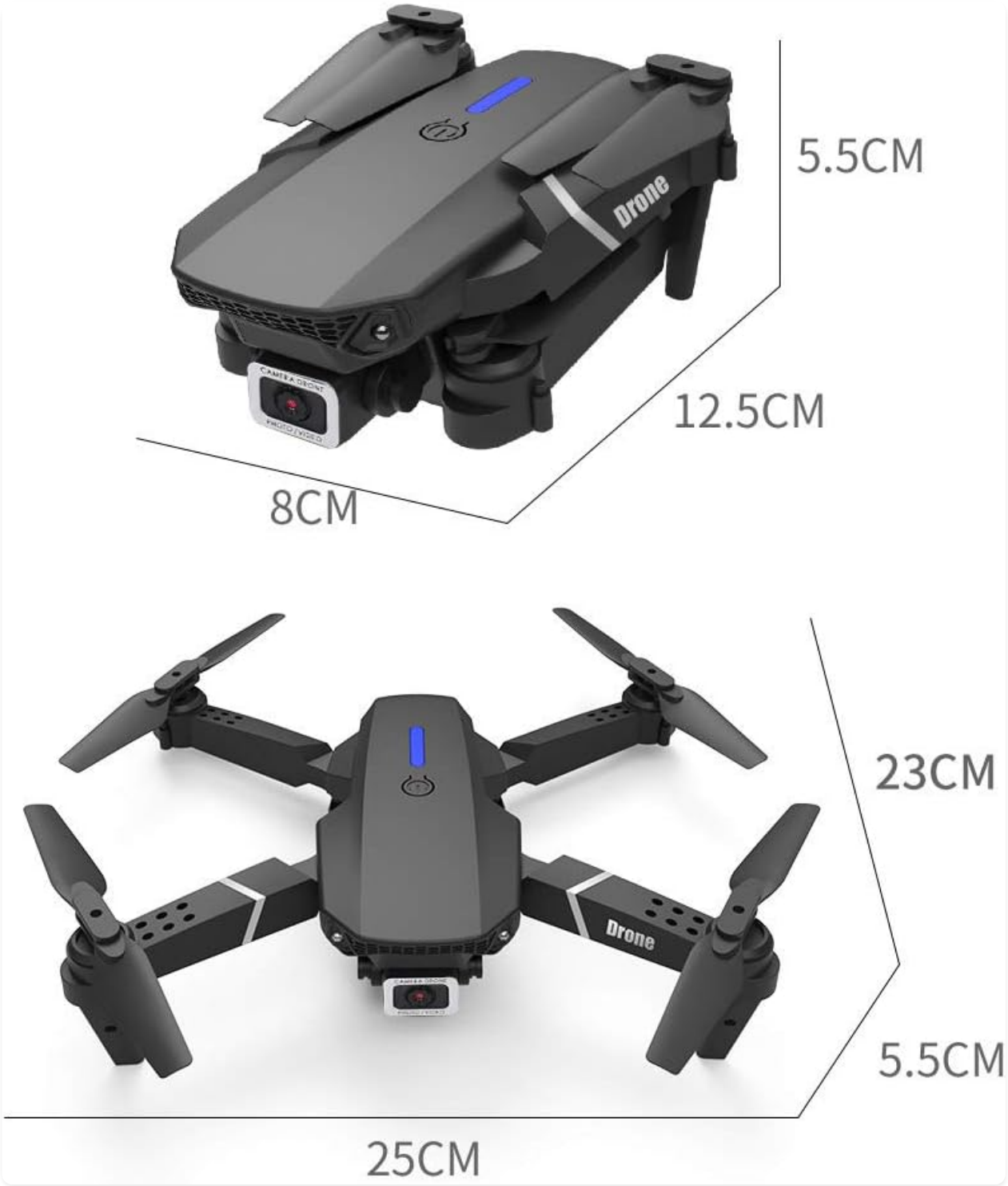

Image: The drone's folded and unfolded dimensions, illustrating its compact design.

3.3 App Installation and Connection

To utilize advanced features and FPV (First Person View), download the dedicated app.

1. Scan the QR code in the user manual or search for the app name (usually indicated in the manual) on the App Store (iOS 9.0 or later) or Google Play (Android 5.0 or later).
2. Install the app on your mobile device.
3. Power on the drone.

4. On your mobile device, go to Wi-Fi settings and connect to the drone's Wi-Fi network (e.g., 'LS-E525-XXXX').
5. Open the installed app. The drone's camera feed should appear, indicating a successful connection.

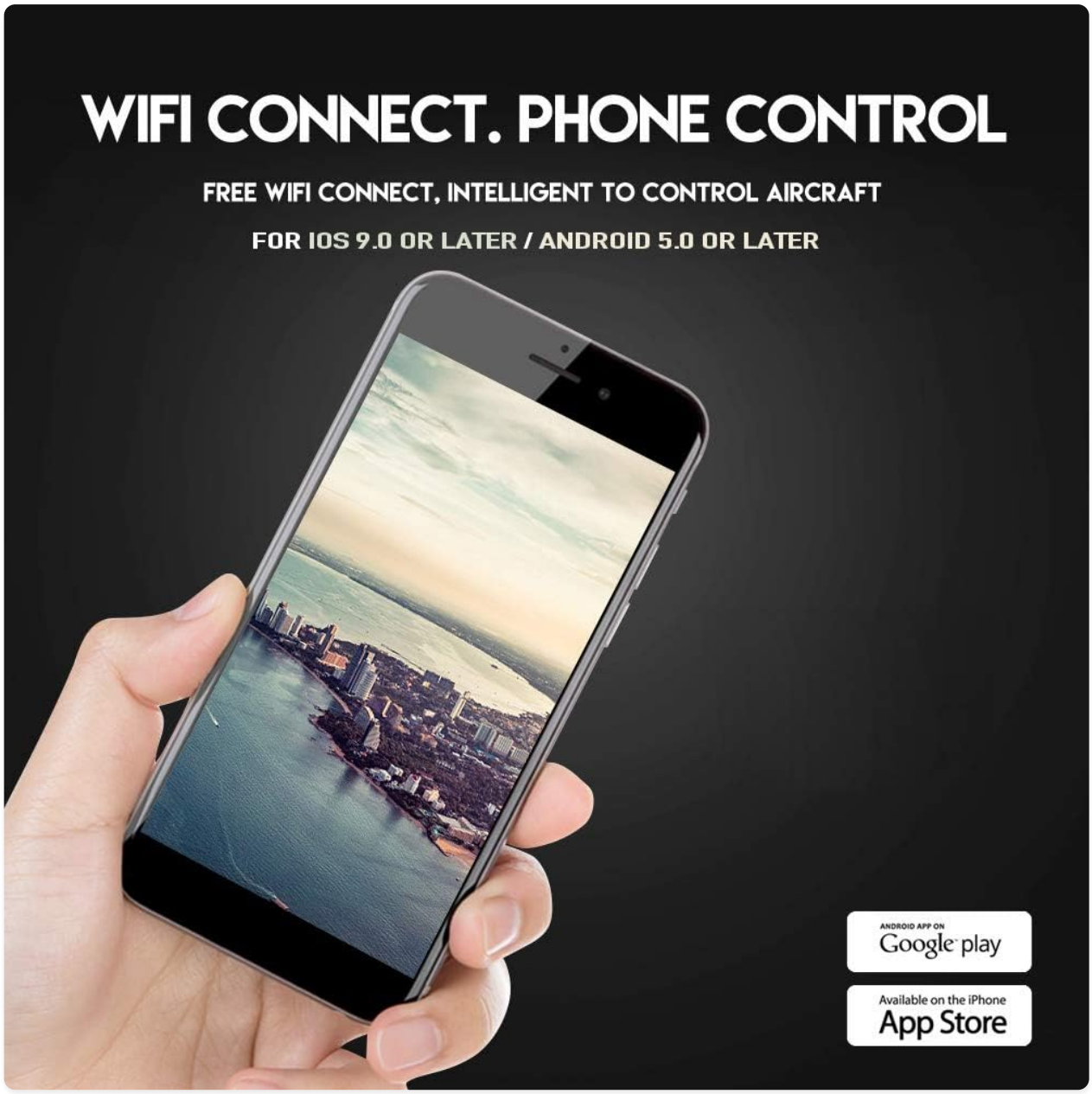

Image: Connecting the drone to a smartphone via Wi-Fi for app control.

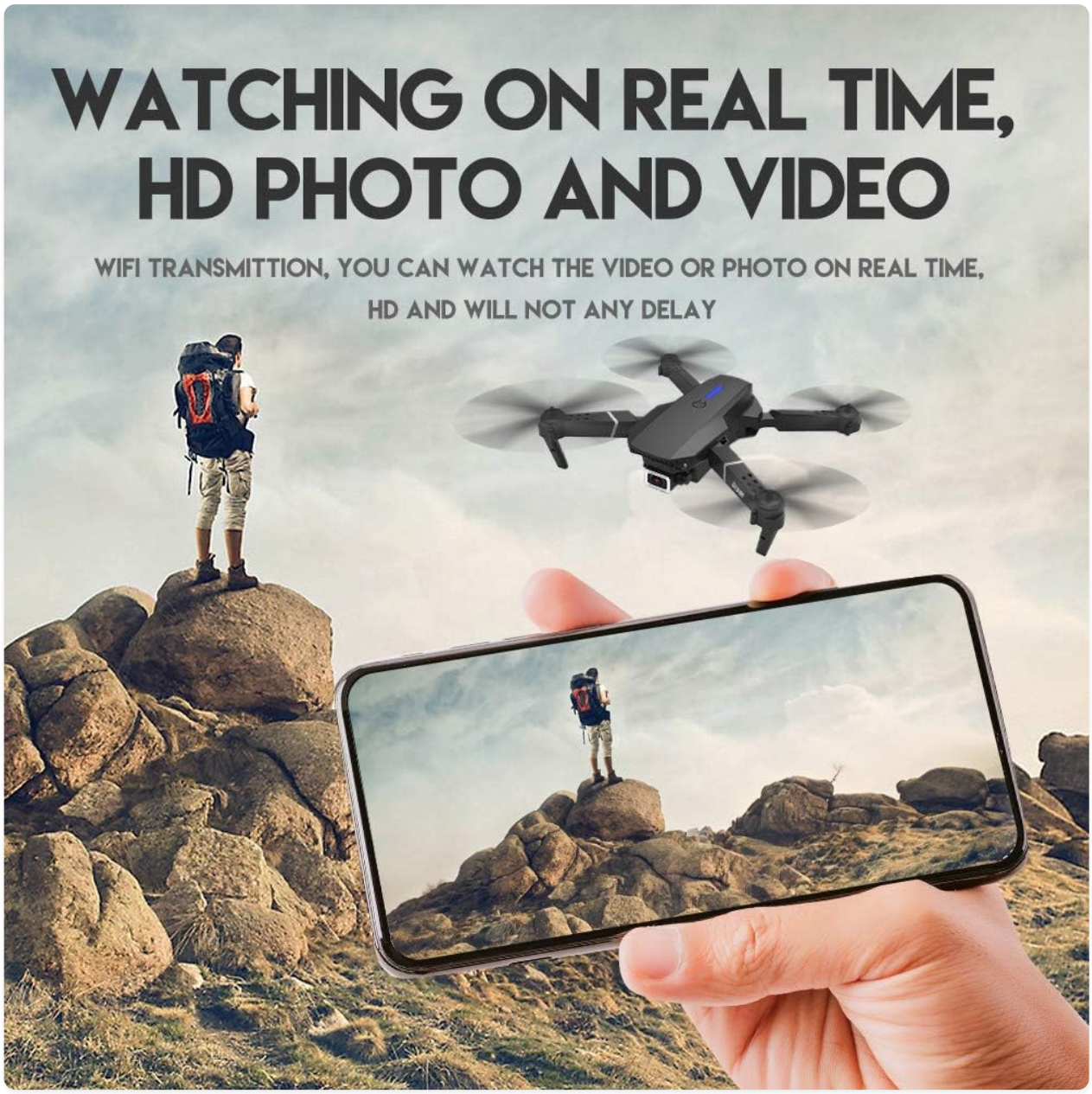

Image: Real-time video feed from the drone's camera displayed on a mobile phone.

4. Operating Instructions

4.1 Basic Flight Operations

1. **Power On:** Turn on the remote controller, then power on the drone. The drone's indicator lights will flash.
2. **Pairing:** Push the left joystick (throttle) up then down. The drone lights will become solid, indicating successful pairing.
3. **Calibration:** Place the drone on a flat surface. Push both joysticks down and to the right simultaneously for a few seconds to calibrate the gyroscope. The lights will flash rapidly and then become solid.
4. **One Key Take-off/Landing:** Press the One Key Take-off/Landing button. The drone will automatically ascend to a certain height or descend and land.
5. **Manual Take-off:** Push both joysticks down and outwards to start the propellers. Slowly push the left joystick up to ascend.
6. **Directional Control:** Use the right joystick for forward/backward and left/right movement. Use the left joystick for altitude (up/down) and rotation (turn left/right).

4.2 Advanced Flight Functions

- **Altitude Hold Mode:** The intelligent altitude hold function allows the drone to maintain a stable hover at a set altitude, preventing camera shake and enabling clearer photos/videos. This feature is automatically engaged after take-off.

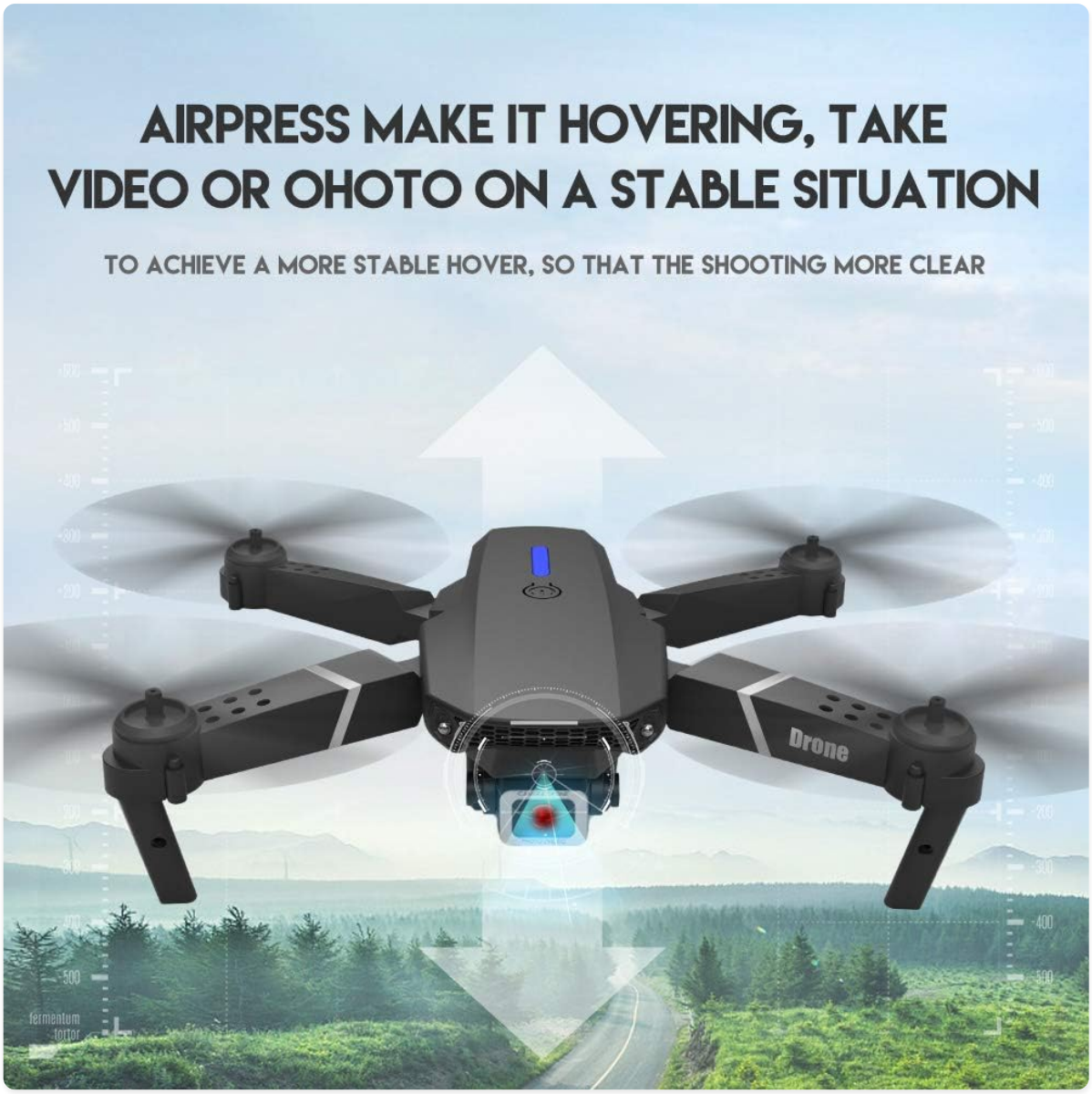

Image: The drone maintaining a stable hover, illustrating the Altitude Hold function.

- **Headless Mode:** In Headless Mode, the drone's orientation is independent of its front end. The drone will move according to the direction of the remote controller, making it easier for beginners to control. Activate/deactivate via the dedicated button on the remote.
- **Track Flight:** Using the mobile app, you can draw a flight path on your screen. The drone will automatically follow the set track.
- **Gesture Photo/Video:** During flight, face the drone's camera and perform specific hand gestures (e.g., Victory sign for photo, open palm for video). The drone will automatically recognize the gesture and capture a photo or start/stop video recording.
- **3D Flip:** Press the 3D Flip button on the remote controller, then move the right joystick in any direction to perform a 360-degree flip. Ensure sufficient altitude before attempting.
- **One Key Return:** Press the One Key Return button. The drone will automatically fly back towards its take-off point. This function relies on the drone's internal positioning system. Ensure a clear return path.

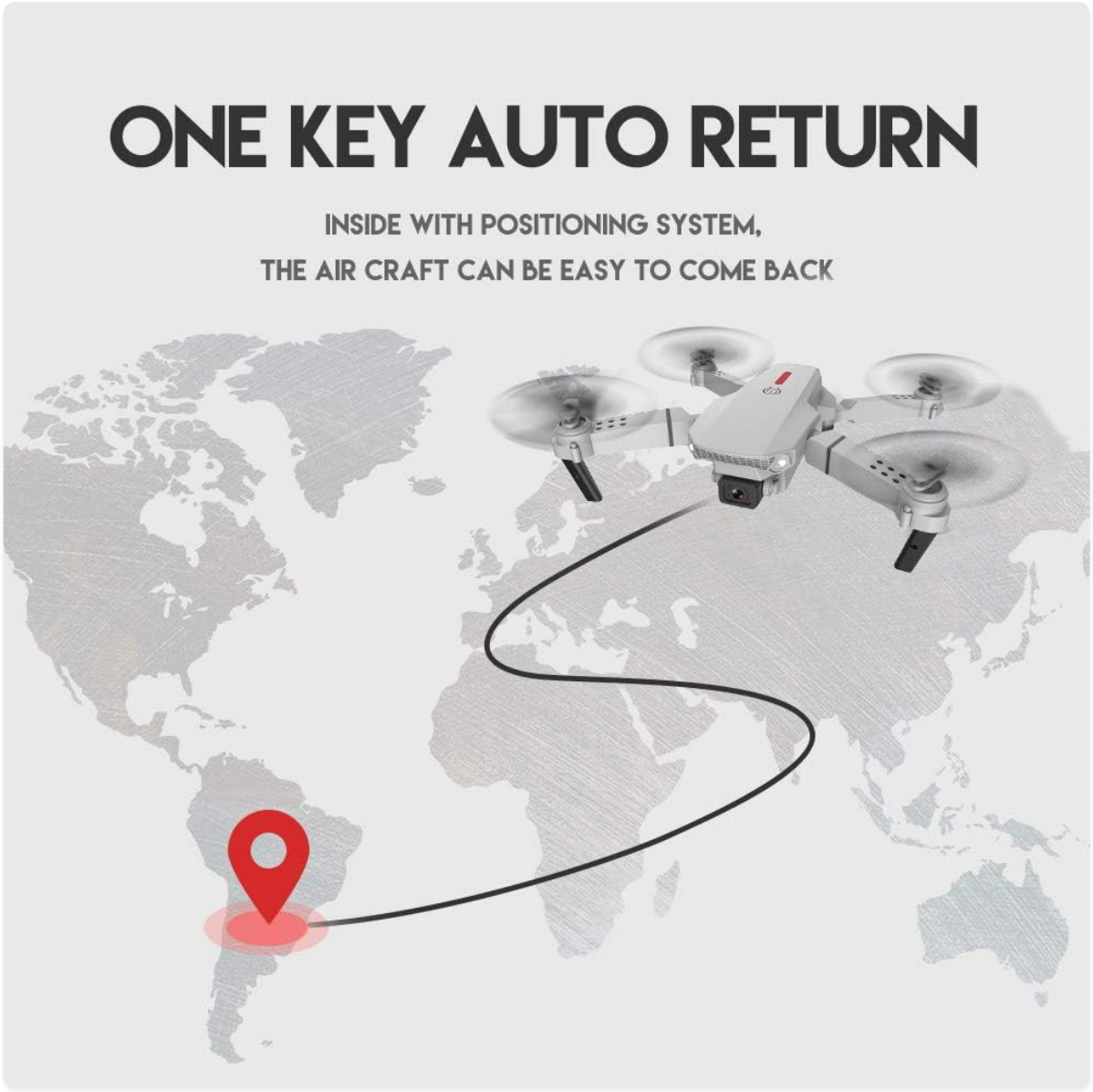

Image: The One Key Auto Return feature, guiding the drone back to its origin.

- **Emergency Stop:** In case of an emergency, press the emergency stop button on the remote controller to immediately stop the drone's motors.

4.3 Camera Operation

The LS-E525 is equipped with a 4K HD camera for capturing high-definition photos and videos.

- **Photo/Video Capture:** Use the dedicated buttons on the remote controller or the app interface to take photos or start/stop video recording.
- **Adjustable Camera Angle:** The camera angle can be manually adjusted by 90 degrees before flight to achieve desired shots.
- **Image Transmission:** The drone transmits live video feed to your mobile device via Wi-Fi, allowing for real-time FPV up to 30 meters.

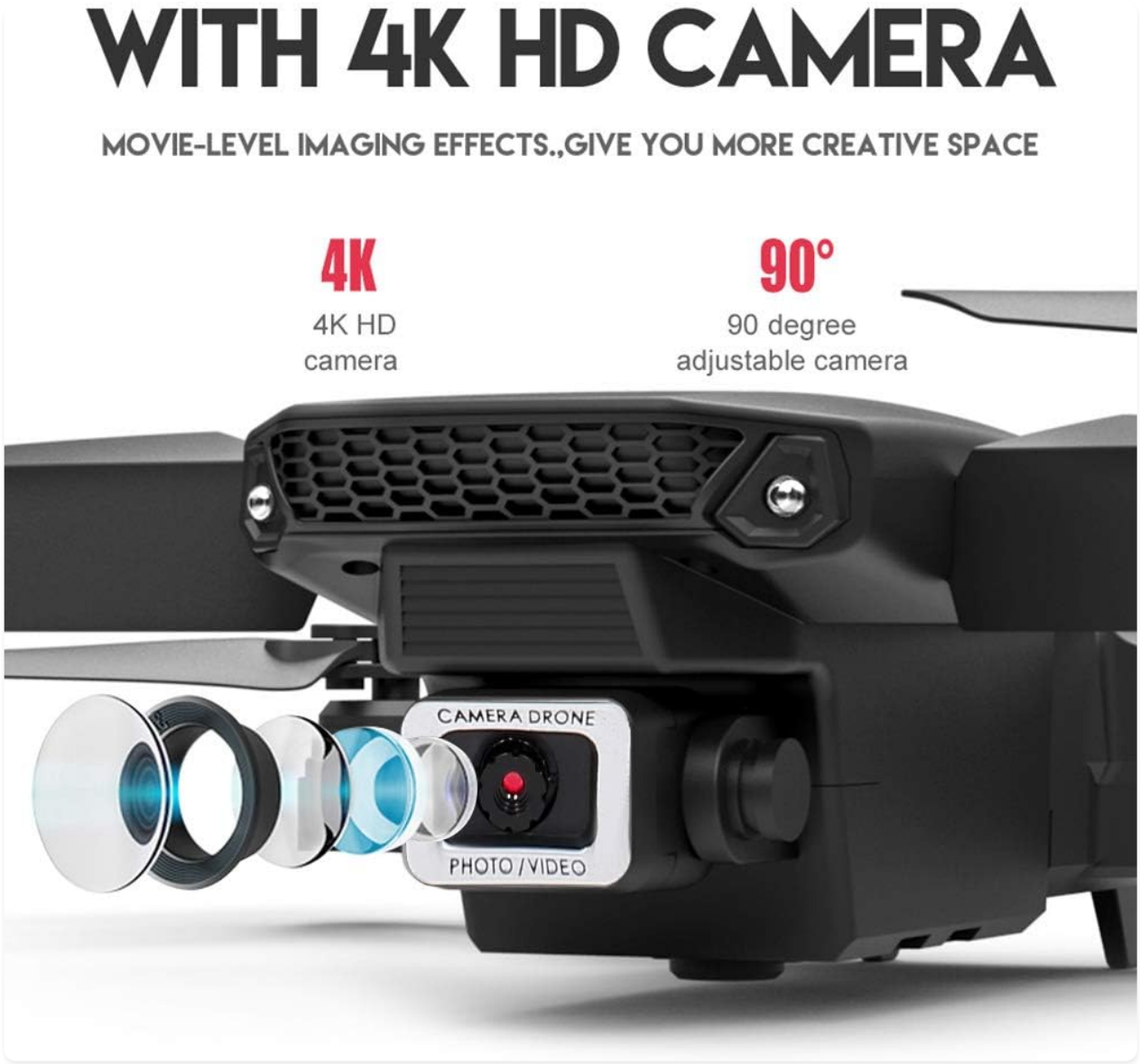

Image: Detailed view of the drone's 4K HD camera with 90-degree adjustable angle.

5. Maintenance

5.1 Propeller Replacement

If a propeller is damaged, replace it immediately to ensure stable flight.

1. Power off the drone.
2. Use the provided screwdriver to carefully remove the screw holding the damaged propeller.
3. Remove the damaged propeller.
4. Install a new propeller, ensuring it matches the original (A or B type, usually marked on the propeller and motor arm).
5. Secure the new propeller with the screw. Do not overtighten.

5.2 General Care

- Clean the drone with a soft, dry cloth. Do not use solvents or harsh chemicals.
- Store the drone and remote controller in a cool, dry place, away from direct sunlight.
- Remove batteries from the remote controller if not in use for extended periods.

6. Troubleshooting

Refer to the following table for common issues and their solutions.

Problem	Possible Cause	Solution
Drone does not respond to remote.	Low battery in drone or remote; Not paired correctly.	Charge/replace batteries; Re-pair drone and remote.
Drone drifts during flight.	Gyroscope not calibrated; Uneven propellers.	Calibrate gyroscope on a flat surface; Check/replace propellers.
No FPV video feed.	Wi-Fi not connected; App not open.	Ensure mobile device is connected to drone's Wi-Fi; Open the drone app.
Short flight time.	Battery not fully charged; Old battery.	Fully charge battery; Consider replacing old batteries.
Drone crashes on One Key Return.	Obstacles in return path; Weak signal.	Ensure clear flight path; Operate within recommended range.

7. Specifications

Technical specifications for the GoolRC LS-E525 RC Drone.

Feature	Detail
Model	LS-E525
Main Material	ABS plastic & electronic components
Max. Flight Time	15 minutes
Charging Time	100 minutes
Max. Remote Distance	100 meters
Operating Frequency	2.4GHz
Motor Type	Brushed Motor
Front Camera Max. Image Transmission Distance	30 meters
Photo Resolution	4096 * 2160 (4K)
Video Resolution	2160 * 1080
Camera Manually Adjustable Angle	90°
Mobile Device System Compatibility	iOS 9.0 or later / Android 5.0 or later
Drone Battery	3.7V 1800mAh Lithium Battery
Remote Controller Battery	3 * 1.5V AA Batteries (not included)
Unfolding Dimensions	25 * 23 * 5.5 cm (L*W*H)

Feature	Detail
Folding Dimensions	12.5 * 8 * 5.5 cm (L*W*H)
Item Weight	Approximately 1.07 pounds

8. Safety Guidelines

Adhere to the following safety guidelines to ensure safe operation and prevent accidents.

- **Flight Environment:** Fly in open areas, away from people, animals, buildings, and trees. Avoid flying near airports or restricted airspace.
- **Weather Conditions:** Do not fly in strong winds, rain, snow, or fog.
- **Line of Sight:** Always maintain visual line of sight with the drone during flight.
- **Battery Safety:** Use only approved charging cables and adapters. Do not overcharge or puncture batteries. Discontinue use if batteries are damaged or swollen.
- **Propeller Safety:** Keep hands, face, and loose clothing away from rotating propellers.
- **Age Recommendation:** This product is recommended for adult use.
- **Respect Privacy:** Be mindful of others' privacy when using the camera.

9. Warranty and Support

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.

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