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› GoolRC GPS Drone with 8K Dual Camera User Manual

GoolRC D99

GoolRC GPS Drone with 8K Dual Camera User Manual

MODEL: D99

Your guide to safe and effective drone operation.

1. Introduction

This manual provides detailed instructions for the setup, operation, and maintenance of your GoolRC GPS Drone with 8K Dual Camera. Please read this manual thoroughly before operating the drone to ensure safe and efficient use. This drone features 8K UHD dual cameras, GPS auto-return, optical flow positioning, a powerful brushless motor, and multiple intelligent flight modes for an enhanced flying experience.

2. What's in the Box

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

- GoolRC GPS Drone (1)
- Remote Control (1)
- 3.7V 2000MAH Modular Batteries (3)
- USB Charging Cable (1)
- Screwdriver (1)
- Spare Blades (8)
- Carrying Case (1)
- User Manual (1)
- WiFi Instruction Manual (1)

HD Dual Camera Switch Freely



The front camera takes the picture



The bottom camera takes picture

Image: GoolRC GPS Drone with remote control, batteries, and other accessories.



Image: Detailed view of the drone, remote, spare blades, batteries, USB cable, manuals, screwdriver, and storage bag.

3. Setup

3.1 Drone Assembly

Unfold the drone arms and install the battery. Ensure the battery is securely latched into the drone's compartment.



Intelligent four-direction obstacle-avoidance provides guarantee for flight safety

Detect the surrounding obstacles in all directions, and automatically avoid obstacles in order to guard the flight.

Image: The drone's foldable design for portability and storage.

3.2 Remote Control Setup & Pairing

Place the drone on a level surface. Turn on the drone, then turn on the remote control. You will hear three beeps from the remote, and the drone's front lights will be steady on while the rear lights flash slowly, indicating successful pairing.

3.3 Gyroscope Calibration

With the drone on a level surface, short press the gyroscope calibration button on the remote. The drone lights will flash quickly, then the front lights will be steady on and rear lights flash slowly. The remote will sound a "DI" indicating successful calibration.

3.4 Geomagnetic Calibration

Short press the geomagnetic calibration button on the remote. The remote will sound a "DI". The drone's front and rear lights will flash slowly. Hold the drone level and rotate it clockwise slowly for 3 turns. The remote will sound a "DI". Then turn the drone slowly clockwise 3 times with the head down. The drone lights will change from flashing

slowly to being steady on. The remote will sound a "DI" indicating successful calibration.

3.5 GPS Signal Acquisition

After geomagnetic calibration, place the drone on a level surface. It will automatically search for satellite signals. Once more than nine satellites are found, the remote will sound a "DI". The satellite signal icon in the upper left corner of the app will indicate signal strength.

3.6 APP Installation & Connection

Scan the QR code provided in the WiFi instruction manual to download the RxDrone APP. Turn on your phone's Wi-Fi and connect to the drone's Wi-Fi network (e.g., "HF GPS5G_80480488"). Once connected, open the RxDrone APP on your phone. You can then install your phone onto the remote control and begin flying.

Your browser does not support the video tag.

Video: Gps Drone Operating Instructions. This video demonstrates pairing (0:05), gyroscope calibration (0:26), geomagnetic calibration (0:48), GPS signal search (1:32), APP connection (2:50), and other operational aspects.

4. Operating Instructions

4.1 Basic Flight Controls

- **Left Joystick Up:** Drone flies up.
- **Left Joystick Down:** Drone flies down.
- **Left Joystick Left:** Drone rotates left.
- **Left Joystick Right:** Drone rotates right.
- **Right Joystick Up:** Drone goes forward.
- **Right Joystick Down:** Drone goes backward.
- **Right Joystick Left:** Drone moves to left side.
- **Right Joystick Right:** Drone moves to right side.

4.2 Advanced Features

- **One-Key Takeoff/Landing:** Press the dedicated button for automatic takeoff or landing.
- **Headless Mode:** Eliminates the need to distinguish the drone's head direction, making it easier for beginners to control.
- **Intelligent Follow Mode:** The drone can automatically track and capture your movements.
- **GPS Surround Flight:** Set a point and the drone will circle around it.
- **Gesture Control:** Use specific hand gestures to take photos or videos.
- **Speed Switch:** Adjust flight speed for different environments and skill levels.
- **360° Obstacle Avoidance:** The drone features intelligent four-direction obstacle avoidance for flight safety. (Note: Infrared obstacle avoidance is turned off in outdoor GPS mode).
- **Waypoint Flight:** Draw a flight route on your phone, and the drone will follow it automatically.



Remote control*1

The spare blade*8



Drone battery*1



USB*1



Operating instructions*1



WiFi instruction manual*1



Screwdriver*1



Storage bag*1

Image: The drone's 8K dual cameras for high-definition imaging.

GPS intelligent multifunctional return



One-key return



Out of range
return



Low battery
return



Out of control
return

Image: GPS intelligent multifunctional return features, including one-key return, out of range return, low battery return, and out of control return.



Intelligent four-direction
obstacle-avoidance provides
guarantee for flight safety

Image: Intelligent four-direction obstacle-avoidance provides guarantee for flight safety.



GPS + Optical-Flow Positioning Stable Hover



Image: GPS + Optical-Flow Positioning for stable hover.

Your browser does not support the video tag.

Video: GoolRC Remote Control GPS Drone with Dual Camera 8K Foldable. This video showcases various features and flight capabilities of the drone.

5. Maintenance

5.1 Propeller Replacement

When replacing propellers, ensure you distinguish between A and B type propellers. Propeller A must be installed in position A, and Propeller B in position B. Use the provided screwdriver to remove the old propeller and install the new one.

5.2 Battery Charging

Remote Control Charging: Plug the USB charging cable into the charging port of the remote control. The indicator light will remain steady on while charging and turn off when fully charged.

Drone Battery Charging: Insert the USB charging cable into the battery charging port. The indicator light will remain steady on while charging and turn off when fully charged. Each 3.7V 2000MAH modular battery provides approximately 20 minutes of flight time.

Video: Gps Drone Operating Instructions. This video demonstrates propeller replacement (3:16), remote control charging (4:19), and drone battery charging (4:34).

6. Troubleshooting

- **Drone not powering on:** Ensure the drone battery is fully charged and correctly installed.
- **Remote not connecting:** Verify both drone and remote are powered on and within range. Re-attempt the pairing process.
- **Unstable flight:** Perform gyroscope and geomagnetic calibrations on a level surface. Check for damaged propellers and replace if necessary.
- **No GPS signal:** Ensure you are in an open outdoor area with clear sky view. Wait for the drone to acquire sufficient satellites (more than 9).
- **APP connection issues:** Ensure your phone's Wi-Fi is connected to the drone's Wi-Fi network. Restart the APP and try again.
- **Obstacle avoidance not working:** Remember that the infrared obstacle avoidance function is turned off in outdoor GPS mode.

7. Specifications

Feature	Detail
Brand	GoolRC
Model Name	D99
Video Capture Resolution	8K
Effective Still Resolution	7680
Flight Time (with 3 batteries)	Approx. 60 minutes (granted battery swaps)
Battery Capacity	2000 mAh (per battery)
Motor Type	Brushless Motor
Control Type	Remote Control
Connectivity Technology	USB, Wi-Fi
Product Dimensions	12.59"L x 10.82"W x 2.55"H
Item Weight	6.2 ounces (under 250g)
Recommended Age	14 years and up

8. Warranty & Support

GoolRC is committed to providing high-quality products and customer satisfaction. If you encounter any issues or have questions regarding your GoolRC GPS Drone, please do not hesitate to contact our customer support team directly via email. We are happy to assist you with any concerns.

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Details

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