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› FINOTI RG800 Max GPS Drone User Manual

FINOTI RG800 Max

FINOTI RG800 Max GPS Drone User Manual

Model: RG800 Max | Brand: FINOTI

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1. INTRODUCTION

Thank you for choosing the FINOTI RG800 Max GPS Drone. This manual provides essential information for the safe operation, setup, and maintenance of your drone. Please read this manual thoroughly before operating the aircraft to ensure proper use and to prevent damage or injury. Keep this manual for future reference.



2. SAFETY GUIDELINES

Operating a drone requires responsibility. Adhere to the following safety guidelines to ensure a safe flight experience for yourself and others.

- **Pre-Flight Check:** Always inspect the drone, remote control, and batteries for any damage before each flight.
- **Environmental Conditions:** Do not fly in strong winds, rain, snow, or fog. Avoid flying near power lines, buildings, or crowded areas.
- **Line of Sight:** Maintain visual line of sight with the drone at all times during flight.
- **Battery Safety:** Use only approved chargers and batteries. 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. Ensure propellers are correctly installed before flight.
- **Respect Privacy:** Be mindful of privacy laws when using the camera.
- **Age Restriction:** This product is not suitable for children under 14 years old.

3. PACKAGE CONTENTS

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

- RG800 Max GPS Drone x 1
- Remote Control (with 4.5-inch screen) x 1
- 7.4V 3800mAh Smart Battery x 3 (for Triple Battery variant)
- USB Charging Cable x 1
- Spare Propeller Blades x 4
- Screwdriver x 1
- User Manual x 1
- APP Manual x 1
- Card Reader x 1
- 8GB Memory Card x 1

4. PRODUCT OVERVIEW

4.1 Drone Components



Figure 4.1: Overview of the RG800 Max drone highlighting key features like 8K camera, GPS, and 5G transmission.

- **Foldable Arms:** For compact storage and portability.
- **Brushless Motors:** Provide stable flight and strong wind resistance.
- **8K Dual HD Camera:** Main camera for high-resolution photo and video, with a secondary optical flow camera.
- **Adjustable Camera Angle:** The main camera angle can be adjusted 90° via the remote control.
- **Obstacle Avoidance Sensors:** Located on four sides for enhanced flight safety.
- **LED Indicator Lights:** Indicate drone status and direction.
- **Battery Compartment:** Houses the smart flight battery.

4.2 Remote Control Overview

Remote Control Guide



Figure 4.2: Detailed diagram of the remote control with labeled buttons and ports.

The remote control features a 4.5-inch LCD screen for real-time image transmission and flight data. Key controls include:

- **Left Joystick (Throttle/Direction)**: Controls altitude and yaw.
- **Right Joystick (Direction Lever)**: Controls forward/backward and left/right movement.
- **GPS Switch**: Toggles GPS mode on/off.
- **Return/Map Button**: Initiates Return-to-Home or displays map interface.
- **Power Switch**: Turns the remote control on/off.
- **Photograph Button**: Takes a photo.
- **Video Button**: Starts/stops video recording.

- **Selection Keys (Up/Down):** For menu navigation or digital zoom.
- **Charging Socket:** For charging the remote control battery.
- **Memory Card Slot:** For storing flight data and media.
- **Data Cable Socket:** For connecting to external devices.

5. SETUP

5.1 Charging Batteries

1. **Drone Battery:** Connect the drone's smart battery to the USB charging cable. Connect the USB cable to a 5V/2A USB power adapter (not included). The charging indicator on the battery will show its status. Charging typically takes 3-4 hours.
2. **Remote Control Battery:** Connect the remote control to the USB charging cable. Connect the USB cable to a 5V/1A USB power adapter. The charging indicator on the remote will show its status.
3. Ensure batteries are fully charged before each flight.

5.2 Installing Propellers

1. Identify propellers marked 'A' and 'B'.
2. Match propellers to the corresponding motor shafts (usually marked 'A' or 'B' on the motor base).
3. Securely attach propellers using the provided screwdriver. Ensure they are firmly in place but do not overtighten.

5.3 Inserting Memory Card

Insert the provided 8GB memory card into the designated slot on the remote control. Ensure it is inserted correctly until it clicks into place. This card stores photos and videos captured by the drone.

5.4 Unfolding the Drone

Gently unfold the drone arms until they lock into position. Ensure all arms are fully extended before flight.

6. OPERATING INSTRUCTIONS

6.1 Pre-Flight Preparation

1. Place the drone on a flat, open surface.
2. Turn on the drone by pressing and holding the power button on the battery.
3. Turn on the remote control by pressing the power switch.
4. Wait for the drone and remote control to connect. The indicator lights on the drone will change from flashing to solid once connected.
5. Perform gyroscope calibration by pushing both joysticks to the bottom-left or bottom-right corners simultaneously until the drone lights flash rapidly and then become solid.
6. Perform compass calibration as instructed in the APP manual. This is crucial for accurate GPS functionality.
7. Ensure GPS signal is acquired (indicated on the remote control screen) before attempting outdoor flight.

6.2 Takeoff and Landing

- **Manual Takeoff:** Push both joysticks to the bottom-inner corners to unlock the motors. Then, slowly push the left joystick (throttle) upwards to take off.
- **One-Key Takeoff/Landing:** Press the dedicated One-Key Takeoff/Landing button (refer to remote control diagram) to automatically take off or land.

- **Emergency Stop:** In an emergency, press and hold the One-Key Takeoff/Landing button for 3 seconds to stop the motors.

6.3 Flight Controls

Use the joysticks on the remote control to maneuver the drone:

- **Left Joystick (Throttle):** Up/Down for altitude, Left/Right for yaw (rotation).
- **Right Joystick (Direction):** Up/Down for forward/backward, Left/Right for sideward flight.

6.4 Camera Operation



Figure 6.1: Close-up of the drone's 8K ESC camera, capable of 90° remote-controlled angle adjustment and 50x digital zoom.

- **Take Photo:** Press the "Photograph" button on the remote control.
- **Record Video:** Press the "Video" button on the remote control to start recording. Press again to stop.
- **Adjust Camera Angle:** Use the dedicated camera angle adjustment buttons/wheel on the remote control (refer to Figure 4.2) to change the camera's vertical tilt.

- **Digital Zoom:** Use the selection keys (Up/Down) on the remote control to activate digital zoom.

6.5 Intelligent Flight Modes

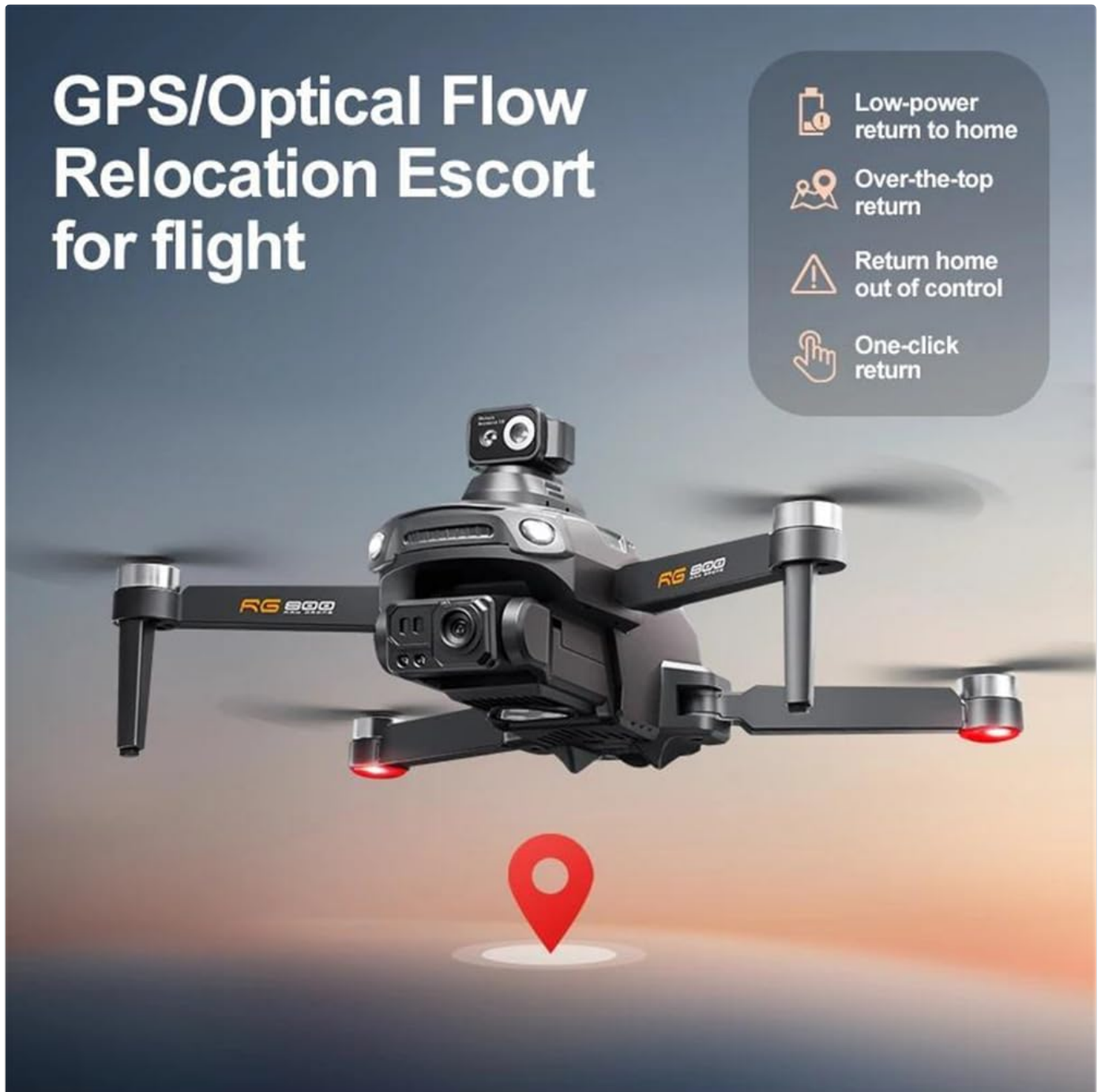


Figure 6.2: Illustration of GPS and Optical Flow features, including various return-to-home functions.

- **GPS Intelligent Tracking:** With GPS enabled, the drone can follow the remote control or a designated subject. Activate via the mobile application.
- **Image Tracking:** Identify a subject in the app, and the drone will automatically track its movement.
- **360° Obstacle Avoidance:** The drone features sensors for 360° obstacle detection, enhancing flight safety. This system helps prevent collisions within approximately 20 meters.
- **Return-to-Home (RTH):**
 - **One-Key RTH:** Press the "Return/Map" button on the remote control. The drone will automatically return to its takeoff point.
 - **Low Battery RTH:** The drone will automatically return when the battery level is critically low.
 - **Signal Loss RTH:** If the connection between the drone and remote control is lost, the drone will automatically

return to its takeoff point.

6.6 Aircraft Search Function

If the drone is lost, click the GPS signal icon on the remote control screen three times consecutively. This will open a map interface displaying the last known distance, latitude, and longitude of the aircraft, aiding in recovery.

6.7 Mobile Application (APP)

Download the dedicated mobile application (refer to the APP manual for QR code or search instructions) to unlock advanced features, view real-time FPV, and manage media. The app allows for single or multiple photo sharing, while videos can only be shared individually.

7. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the drone and remote control. Do not use solvents or harsh chemicals.
- **Propeller Replacement:** Inspect propellers regularly for cracks or damage. Replace damaged propellers immediately using the spare blades and screwdriver provided. Ensure correct 'A' and 'B' propeller placement.
- **Battery Care:** Store batteries in a cool, dry place. Do not store fully charged or completely depleted batteries for extended periods. Charge them to about 50-60% for long-term storage.
- **Storage:** When not in use, fold the drone arms and store the drone and remote control in a protective case or bag to prevent damage.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Drone does not power on.	Battery is depleted or not properly inserted.	Charge the drone battery. Ensure the battery is securely inserted.
Remote control does not power on.	Remote control battery is depleted.	Charge the remote control battery.
Drone cannot connect to remote control.	Improper pairing sequence or interference.	Ensure both devices are powered on. Re-attempt pairing procedure (power drone first, then remote). Move to an area with less interference.
Drone drifts during flight.	Gyroscope not calibrated or strong wind.	Perform gyroscope calibration. Avoid flying in strong winds.
GPS signal is weak or unavailable.	Flying indoors or in an area with obstructions.	Fly in an open outdoor area. Perform compass calibration.
Poor image/video quality or no recording.	Memory card issues or camera settings.	Ensure memory card is inserted correctly and has sufficient space. Format the memory card if necessary. Check camera settings in the app.
Obstacle avoidance not working.	Sensors are dirty or range exceeded.	Clean the obstacle avoidance sensors. Note that avoidance has a limited range (approx. 20m).

9. SPECIFICATIONS

Feature	Detail
Model	RG800 Max
Brand	FINOTI
Camera	8K HD Dual Camera, 90° adjustable angle
Image Transmission	5G Digital, up to 5KM range
Motor Type	Brushless
Obstacle Avoidance	360° Laser (approx. ≤ 20M range)
Drone Battery	7.4V 3800mAh Smart Battery
Remote Control Battery	3.7V 1200mAh
Remote Control Screen	4.5-inch LCD
Wind Resistance Level	Level 5
Folded Dimensions	22 x 10 x 17.5 cm (approx.)
Memory Card	8GB (included)

10. WARRANTY AND SUPPORT

For warranty information, please refer to the documentation provided at the time of purchase or contact your retailer. For technical support, troubleshooting assistance, or spare parts, please contact FINOTI customer service through the official website or your purchase platform.

Manufacturer: FINOTI
Model Number: TRIPLEBATTERY-66500032
ASIN: B0FFT1NWR1

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Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

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Question

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