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> RIPIAN RG106 Drone User Manual

RIPIAN RG106

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Model: RG106

1. INTRODUCTION

This user manual provides comprehensive instructions for the safe operation, setup, and maintenance of your RIPIAN RG106 Drone. The RG106 is an advanced quadcopter featuring an 8K dual camera system, 3-axis mechanical gimbal, GPS positioning, and 360° obstacle avoidance capabilities, designed for both recreational and professional aerial photography and videography.



Image: The RIPIAN RG106 Drone in its folded, compact state, ready for transport.

2. PRODUCT COMPONENTS

The RG106 drone package includes the following main components:

- RG106 Drone (with integrated 8K Dual Camera and 3-Axis Gimbal)
- Remote Control (with built-in lithium battery)
- 7.4V 3800mAh Drone Battery
- USB Charging Cable (for drone battery)
- Propellers (installed and/or spares)
- User Manual (this document)



Image: The RIPIAN RG106 Drone unfolded, showcasing its propellers and the integrated camera system.

3. TECHNICAL SPECIFICATIONS

Feature	Specification
Model	RG106 / RG106 Pro
Motor Type	1506 Brushless Motor (1700/KV)
Gimbal	Three-axis Mechanical Pan-tilt
Camera	8K Dual Camera, Adjustable 90°, Self-stabilizing Electronic Image Stabilization Lens
Receiving Frequency	5G Real-time Transmission
Drone Battery	7.4V 3800mAh Lithium Battery
Remote Control Battery	Built-in Lithium Battery
Flight Distance	Approximately 3000 meters
Flight Time	Approximately 28 minutes
Charging Time	Approximately 4 hours (USB 5V)
Unfolded Dimensions	31 x 31 x 7.5 cm (12.2"L x 12.2"W x 2.95"H)
Folded Dimensions	18 x 12.5 x 7.5 cm
Product Weight	327g (0.035 ounces)
App Name	HFun Plus (iOS & Android compatible)
Obstacle Avoidance	360° Obstacle Avoidance Device (RG106 Pro)

『 Three-axis gimbal + 8K ESC dual camera 』



GPS smart return

360° Laser Avoidance

Image: The RG106 Drone highlighting its three-axis gimbal and 8K ESC dual camera, along with GPS smart return and 360° Laser Avoidance features.

4. SETUP GUIDE

4.1. Unfolding the Drone

1. Gently unfold the front arms of the drone until they lock into place.
2. Unfold the rear arms in the same manner.
3. Ensure all propellers are clear and unobstructed.

4.2. Battery Installation and Charging

The drone battery (7.4V 3800mAh) should be fully charged before first use.

1. Insert the drone battery into the battery compartment on the rear of the drone until it clicks securely.
2. Connect the USB charging cable to the drone battery's charging port.
3. Connect the other end of the USB cable to a 5V USB power adapter (not included).

4. The charging indicator light will show charging status. Charging typically takes approximately 4 hours.
5. The remote control has a built-in lithium battery and can be charged via its own USB port if needed.

4.3. App Download and Connection

Download the "HFun Plus" application from your mobile device's app store (compatible with iOS and Android).

1. Power on the drone.
2. On your mobile device, go to Wi-Fi settings and connect to the drone's Wi-Fi network (usually named "HFun Plus_XXXXXX").
3. Open the "HFun Plus" app. The app should automatically connect to the drone's camera feed.



Image: The RG106 Pro drone highlighting its 360° Laser Obstacle Avoidance system, providing all-round protection during flight.

5. OPERATING INSTRUCTIONS

5.1. Pre-Flight Checklist

- Ensure drone and remote control batteries are fully charged.

- Check that propellers are securely attached and undamaged.
- Verify GPS signal strength (indicated in the app) before outdoor flight.
- Ensure you are in an open area, away from obstacles, people, and restricted airspace.

5.2. Basic Flight Controls

Refer to the remote control diagram in the app or included quick start guide for specific button layouts.

- **Take-off/Landing:** Use the one-key take-off/landing button or manually push both joysticks down and out to arm motors, then push the left joystick up to ascend.
- **Altitude Control:** Left joystick (up/down) controls ascent and descent.
- **Directional Control:** Right joystick (up/down/left/right) controls forward, backward, left, and right movement.
- **Rotation:** Left joystick (left/right) controls yaw (rotation around its vertical axis).

5.3. Intelligent Flight Modes

The RG106 drone offers several intelligent flight modes for enhanced user experience:

- **GPS One-Key Return:** Press the return-to-home button. The drone will automatically return to its take-off point if GPS signal is strong. This function also activates automatically when battery is low or signal is lost.
- **GPS Intelligent Following:** After connecting to GPS, enable the "Follow Me" function in the app. The drone will follow your mobile device's GPS location.
- **Image Following:** Within 1-3 meters of the aircraft, identify a target in the app, and the drone will automatically follow it.
- **Gesture Photo/Video:** Within 1-3 meters from the aircraft, face the camera and make specific hand gestures to trigger photo or video recording.
- **Multi-point Flight Plan (Trajectory Flight):** Draw a desired flight path on the map in the app, and the drone will autonomously fly along the specified route.
- **Fixed Point Surround:** Select a point of interest (4-20 meters away) in the app, and the drone will circle around it, maintaining a consistent distance and altitude.

8K ESC Camera
remote control



Image: A detailed view of the 8K ESC Camera system on the RG106 drone, highlighting its remote control capabilities.

Three-axis self-stabilizing gimbal



Image: An illustration of the three-axis self-stabilizing gimbal, demonstrating its ability to maintain camera stability during flight.

GPS smart return multipurpose flight



Smart return



Smart follow



waypoint flight



fixed point wrap

Image: Visual representation of the RG106's GPS smart return and various multipurpose flight functions, including smart return, smart follow, waypoint flight, and fixed point wrap.

6. MAINTENANCE

6.1. Cleaning

- Wipe the drone body with a soft, dry cloth after each flight.
- Gently clean the camera lens with a microfiber cloth.
- Remove any debris from the motors and propellers.

6.2. Battery Care and Storage

- Do not overcharge or over-discharge the batteries.
- Store batteries in a cool, dry place, away from direct sunlight and extreme temperatures.
- For long-term storage, charge batteries to approximately 50-60% capacity.

6.3. Propeller Replacement

If a propeller is damaged, replace it immediately using the provided spare propellers. Ensure correct propeller type (A or B) is installed on the corresponding motor.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Drone does not power on	Low battery; Battery not properly installed	Charge drone battery; Reinstall battery securely
No camera feed in app	Not connected to drone's Wi-Fi; App not open or crashed	Ensure Wi-Fi is connected to "HFun Plus_XXXXXX"; Restart app and drone
Drone drifts during flight	Not calibrated; Strong wind interference	Perform gyroscope calibration (refer to app instructions); Fly in calm conditions
GPS functions not working	Weak GPS signal; Drone not calibrated for GPS	Fly in open outdoor area; Perform GPS calibration (refer to app instructions)
Short flight time	Battery not fully charged; Old/damaged battery	Ensure full charge; Consider replacing battery

8. SAFETY GUIDELINES

- Always operate the drone in open areas, away from people, buildings, and obstacles.
- Do not fly near airports or in restricted airspace. Check local regulations.
- Maintain visual line of sight with the drone at all times.
- Do not fly in strong winds, rain, or other adverse weather conditions.
- Keep fingers and loose clothing away from rotating propellers.
- Ensure batteries are handled and charged safely to prevent fire hazards.
- Do not modify the drone or its components.
- Children operating the drone should always be supervised by an adult.

9. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please contact RIPIAN customer support through the retailer where the product was purchased or refer to the official RIPIAN website for contact details. Please have your product model number (RG106) and purchase date available when contacting support.

For the latest updates and FAQs, please visit the official RIPIAN support page (if available, link would be provided here).