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› GoolRC 1080P HD FPV Foldable Mini Drone User Manual

GoolRC GoolRC Drone with Camera (Model B0CFVGD4M6)

GoolRC 1080P HD FPV Foldable Mini Drone

USER MANUAL

1. Introduction

Thank you for choosing the GoolRC 1080P HD FPV Foldable Mini Drone. This drone is designed for both beginners and experienced users, offering advanced features such as a 1080P HD adjustable camera, brushless motors for stable flight, extended battery life, intelligent obstacle avoidance, and various flight modes. This manual will guide you through the setup, operation, maintenance, and troubleshooting to ensure a safe and enjoyable flight experience.



Figure 1.1: GoolRC Drone with included accessories, including the drone, remote controller, batteries, and spare parts.

2. Package Contents

Please verify that all items listed below are included in your package:

- 1 x GoolRC Drone
- 1 x Remote Controller
- 3 x 3.7V 1800mAh Modular Batteries
- 1 x USB Charging Cable
- 4 x Spare Propellers
- 1 x Screwdriver
- 1 x User Manual (this document)



Figure 2.1: Visual representation of the drone and its complete package contents.

3. Safety Precautions

To ensure safe operation and prevent damage, please read and adhere to the following safety guidelines:

- **Flight Environment:** Fly in open areas, away from people, buildings, trees, and power lines. Avoid flying in strong winds or adverse weather conditions.
- **Battery Safety:** Use only original GoolRC batteries and charging cables. Do not overcharge or short-circuit batteries. Discontinue use if batteries are damaged or swollen.
- **Propeller Safety:** Keep fingers, hair, and loose clothing away from rotating propellers. Always turn off the drone before handling propellers.
- **Operator Responsibility:** Maintain visual line of sight with the drone during flight. Do not operate the drone under the influence of alcohol or drugs.
- **Age Recommendation:** This product is recommended for users aged 15 years and up.
- **Obstacle Avoidance:** While the drone has obstacle avoidance, it may be affected by strong light. Always exercise caution and fly in an open space, especially indoors.

4. Product Overview

4.1 Drone Components

Familiarize yourself with the main parts of your GoolRC drone:

- **Brushless Motors:** Provide stable flight and extended lifespan.

- **1080P HD Camera:** Adjustable 90° wide-angle camera for FPV and recording.
- **Obstacle Avoidance Sensors:** 360° system for enhanced safety.
- **Foldable Arms:** Allow for compact storage and portability.
- **Battery Compartment:** Located at the rear of the drone for modular battery insertion.



Figure 4.1: The drone's foldable design, showing expanded (11.8x11.8x1.9 inches) and folded (7.1x5.1x2.9 inches) dimensions.

4.2 Remote Controller Functions

The remote controller provides intuitive control over the drone. Refer to the diagram below for button layout and functions:



Figure 4.2: Remote Control Function Instructions. Key functions include One-key obstacle avoidance, Camera up/down, Left/Right joysticks, One-key takeoff/landing, 360° Flipping, Speed switch, Headless mode, Power switch, and Trim button.

5. Setup

5.1 Charging Batteries

Before first use, fully charge all drone batteries and the remote controller. The drone comes with 3 modular batteries, each providing approximately 10 minutes of flight time, totaling about 30 minutes with all batteries.

- Connect the USB charging cable to the battery and a 5V/2A USB power adapter (not included).
- The indicator light on the battery will show charging status (refer to battery specific instructions for light behavior).
- Charging time is approximately 60-90 minutes per battery.

EXTEND YOUR FLIGHT EXPERIENCE TIME



3*10 MINS
Battery Life

Figure 5.1: The three modular batteries included with the drone, providing extended flight time.

5.2 Installing Batteries

- **Drone Battery:** Slide the charged modular battery into the battery compartment at the rear of the drone until it clicks into place.
- **Remote Controller Battery:** Open the battery cover on the back of the remote controller and insert 3 AAA batteries (not included), ensuring correct polarity. Close the cover.

5.3 Propeller Installation

If propellers are not pre-installed or need replacement:

- Match the propellers with the corresponding motor arms (usually marked A and B).
- Securely attach each propeller to its motor shaft using the provided screws and screwdriver. Ensure they are firmly attached but not overtightened.

5.4 App Download and Connection

For FPV (First Person View) and advanced features, download the GoolRC drone app on your smartphone.

- Scan the QR code in the included user manual or search for the app name (e.g., 'GoolRC FPV') in your device's app store.
- Ensure your phone's Wi-Fi is enabled.
- Power on the drone.
- Go to your phone's Wi-Fi settings and connect to the drone's Wi-Fi network (e.g., 'GoolRC-XXXXXX').
- Open the GoolRC app. The drone's camera feed should now be visible.



Figure 5.2: The drone app is compatible with Android 5.0+ and iOS 9.0+ mobile operating systems.

5.5 Calibration

Before each flight, it is recommended to calibrate the drone for stable performance:

- Place the drone on a flat, level surface.
- Turn on the drone, then the remote controller.
- Pair the drone and remote (usually by pushing the left joystick up then down).
- Perform gyroscope calibration by moving both joysticks to the bottom-right corner simultaneously until the drone's lights flash rapidly and then become solid.

6. Operating Instructions

6.1 Basic Flight Controls

- **One-Key Takeoff/Landing:** Press the dedicated button on the remote for automatic takeoff or landing.
- **Altitude Hold:** The drone will automatically maintain its current altitude, making it easier to control.
- **Headless Mode:** In this mode, the drone's orientation is relative to the pilot, eliminating the need to adjust its position before flying.
- **Speed Switch:** Toggle between low, medium, and high speeds for different flying environments and skill levels.

GREAT RC DRONE FOR BEGINNERS



Figure 6.1: Key features for beginner-friendly operation, including one-key takeoff/landing, altitude hold, emergency stop, and headless mode.

6.2 Advanced Flight Features

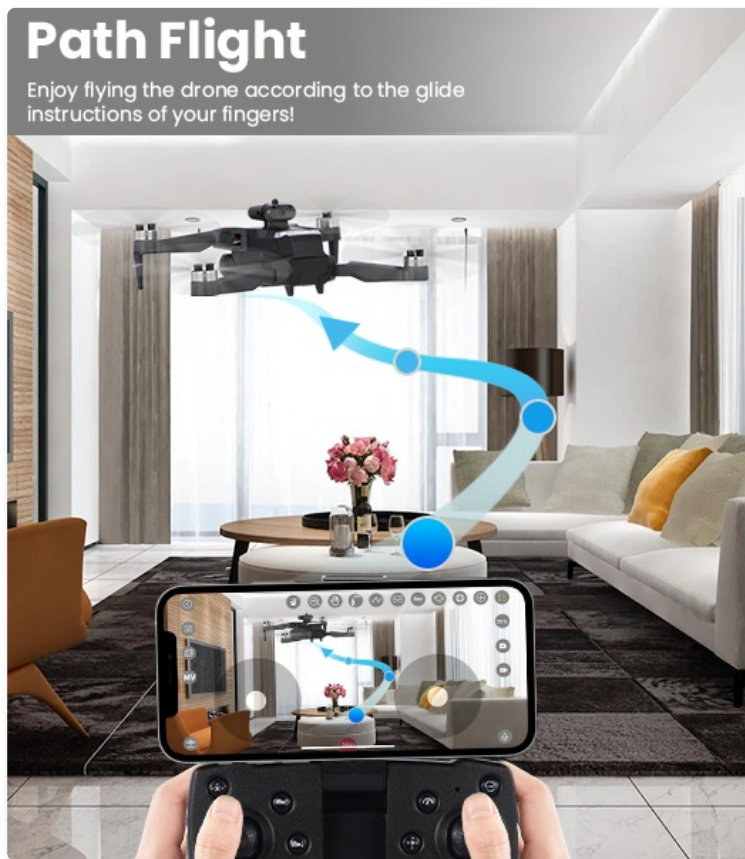
- **360° Flips:** Press the 360° flip button and move the right joystick in the desired direction to perform aerial acrobatics.
- **Intelligent Follow Mode:** The drone can automatically track and follow a designated subject (requires app and GPS signal).
- **Gesture Selfie:** Perform specific hand gestures in front of the camera to trigger photo or video recording (refer to app instructions for specific gestures).
- **Waypoint Flight:** Draw a flight path on your smartphone screen, and the drone will automatically follow the designated route.

INTELLIGENT FOLLOW MODE

Don't worry losing your drone. Automatic follow,
You're the protagonist everywhere you go.

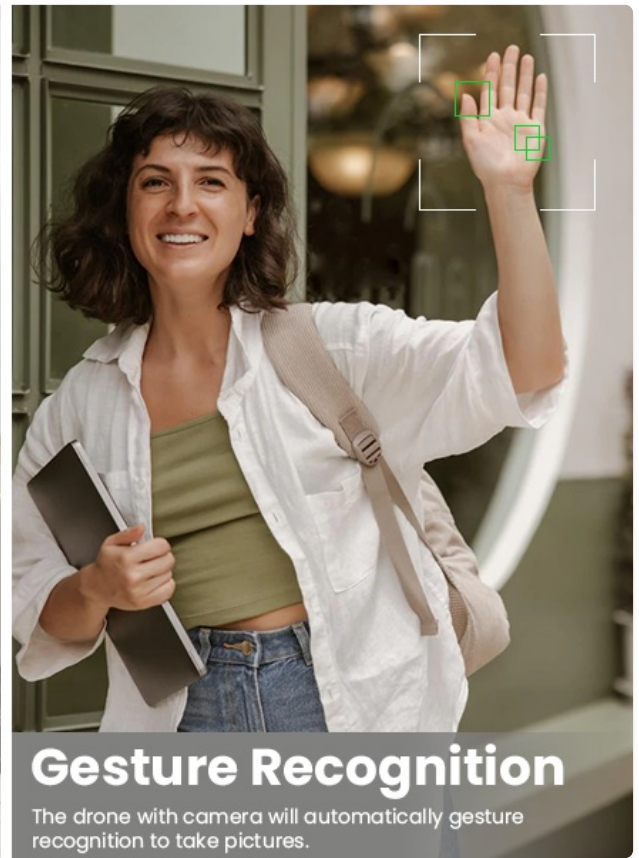


Figure 6.2: Intelligent Follow Mode ensures the drone tracks you, making you the focus of your aerial footage. Also shows weak signal return and low battery reminder features.



Path Flight

Enjoy flying the drone according to the glide instructions of your fingers!



Gesture Recognition

The drone with camera will automatically gesture recognition to take pictures.

Figure 6.3: Path Flight allows drawing a route for the drone to follow, while Gesture Recognition enables hands-free photo capture.

6.3 Obstacle Avoidance System

The drone features a 360° obstacle avoidance system to prevent collisions. This system enhances automatic camera movement and follow capabilities. If the control signal is interrupted, the drone will automatically return to the takeoff point and land.

Note: The effectiveness of the obstacle avoidance function may be reduced under strong light conditions. For optimal performance, especially indoors, fly in an open space.

7. Camera Operation

The GoolRC drone is equipped with a 1080P HD camera for high-quality aerial photography and videography.

- **FPV Transmission:** View the live camera feed directly on your smartphone via the GoolRC app.
- **Adjustable Angle:** The camera angle can be adjusted by 90° for optimal viewing and capture.
- **Photo/Video Capture:** Use the dedicated buttons on the remote controller or the app interface to take photos (JPEG) or record videos (1080p).

HD FOLDABLE 1080P CAMERA



Figure 7.1: The drone features a foldable design and a 1080P HD camera with 90° rotation capability for versatile aerial shots.

8. Maintenance

Regular maintenance ensures the longevity and optimal performance of your drone.

- **Cleaning:** Use a soft, dry cloth to clean the drone body and camera lens. Avoid using harsh chemicals.
- **Propeller Inspection:** Regularly check propellers for cracks, bends, or damage. Replace any damaged propellers immediately using the spare parts provided.
- **Motor Care:** Keep motors free from dust and debris. Do not attempt to lubricate the motors.
- **Battery Storage:** Store batteries in a cool, dry place, away from direct sunlight and extreme temperatures. For long-term storage, charge batteries to about 50% capacity.
- **General Storage:** When not in use, fold the drone and store it in its compact carrying case to protect it from dust and physical damage.

9. Troubleshooting

If you encounter issues with your GoolRC drone, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Drone does not respond to remote.	Not paired, low battery, interference.	Ensure drone and remote are powered on and paired. Charge batteries. Fly in an open area away from other 2.4GHz devices.
Drone drifts during flight.	Not calibrated, uneven surface at takeoff.	Perform gyroscope calibration on a flat surface. Use trim buttons to adjust flight.
Camera feed is choppy or disconnected.	Weak Wi-Fi signal, too far from drone.	Ensure strong Wi-Fi connection. Fly within the recommended Wi-Fi image transmission distance (30-50m).
Obstacle avoidance not working effectively.	Strong light interference.	Avoid flying in direct strong sunlight. Test in an open indoor space.
Short flight time.	Battery not fully charged, old battery.	Ensure batteries are fully charged. Consider replacing old batteries if performance degrades significantly.

10. Specifications

Brand	GoolRC
Model Name	drone with camera
ASIN	B0CFVGD4M6
Special Features	360 Degree Flip, Auto Follow, First Person View (FPV), Foldable, One Button Return, Obstacle Avoidance
Age Range (Description)	Adult, Kid (Manufacturer recommended age: 15 years and up)
Color	Black
Video Capture Resolution	1080p (1920x1080 Pixels)
Connectivity Technology	2.4GHz remote, Wi-Fi
Included Components	Remote Controller, 3* Battery, Charging Cable, 4 * Spare Propellers, Screwdriver, User Manual
Item Weight	4.8 ounces (136g)

Battery Capacity	1800 Milliamp Hours (3 Lithium Polymer batteries included)
Maximum Range	100 Meters (Remote Control), 30-50 Meters (Wi-Fi Image Transmission)
Material	Plastic
Product Dimensions (Expanded)	11.81"L x 11.81"W x 1.97"H
Product Dimensions (Folded)	7.1"L x 5.1"W x 2.9"H
Optical Sensor Technology	CMOS

11. Warranty and Support

For warranty information, please refer to the documentation included with your product or visit the official GoolRC website. If you require technical support, have questions about operation, or need assistance with parts, please contact GoolRC customer service through their official channels.

Keep your purchase receipt as proof of purchase for any warranty claims.

ASK A QUESTION ABOUT THIS MANUAL

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

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

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