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## GEPRC TinyGO 4K FPV Whoop RTF Drone

# GEPRC TinyGO 4K FPV Whoop RTF Drone User Manual

Model: TinyGO 4K FPV Whoop RTF Drone

Brand: GEPRC

## INTRODUCTION

Thank you for purchasing the GEPRC TinyGO 4K FPV Whoop RTF Drone. This comprehensive kit is designed for beginners and experienced pilots alike, offering a ready-to-fly solution for immersive FPV (First Person View) flying and high-quality 4K video capture. Please read this manual thoroughly before operating the drone to ensure safe and optimal performance.



Figure 1: Complete GEPRC TinyGO 4K FPV Whoop RTF Drone Kit.

The complete kit includes the TinyGO 4K FPV Whoop Drone, GEPRC GR8 Remote Controller, FPV Goggles, multiple batteries, a multi-charger, spare propellers, and a convenient carrying case, providing everything needed to start flying.

## SAFETY GUIDELINES

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Operating FPV drones requires adherence to strict safety protocols. Failure to follow these guidelines may result in injury, property damage, or legal consequences.

- **Adult Supervision:** This product is intended for adults only. Minors should only operate under direct adult supervision.
- **Pre-Flight Check:** Always perform a thorough pre-flight inspection of the drone, remote, and goggles. Ensure all components are securely attached and free from damage.
- **Battery Safety:** Use only recommended batteries and chargers. Do not overcharge or discharge batteries. Store batteries in a fireproof bag away from flammable materials. Discontinue use if batteries show signs of swelling or damage.
- **Flight Environment:** Fly in open areas, away from people, animals, buildings, and obstacles. Avoid flying near airports, restricted airspace, or in adverse weather conditions (strong winds, rain).
- **Propeller Safety:** Keep hands and face clear of rotating propellers. Always remove propellers before performing maintenance or handling the drone indoors.
- **Line of Sight:** Maintain visual line of sight with the drone at all times, even when using FPV goggles.
- **Local Regulations:** Familiarize yourself with and adhere to all local drone regulations and laws.

## PACKAGE CONTENTS

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

Item	Quantity	Description
TinyGO 4K FPV Whoop Drone	1	Compact FPV drone with propeller guards.
GEPRC GR8 Remote Controller	1	Ergonomic remote for precise control.
FPV Goggles	1	Immersive first-person view experience.
LiPo Batteries	Multiple	High-capacity Lithium Polymer batteries for extended flight time.
USB Battery Charger	1	Multi-port charger for LiPo batteries.
Spare Propellers	4 sets	Replacement propellers for maintenance.
Carrying Case	1	Protective case for transport and storage.
USB Charging Cable	1	For charging the remote controller and goggles.
Screwdriver & Screws	1 set	Tools for minor adjustments and repairs.

# TinyGo 4K Whoop RTF



Figure 2: Detailed view of all included components.

This image displays all the items you should find in your GEPRC TinyGO 4K FPV Whoop RTF Drone package, including the drone, remote, goggles, batteries, charger, and accessories.

## SETUP GUIDE

### 1. Charging Batteries

Before first use, fully charge all batteries. The kit includes a USB multi-charger for the drone's LiPo batteries. Connect the charger to a USB power source (e.g., computer USB port, USB wall adapter).

1. Connect the drone batteries to the appropriate ports on the USB charger. Ensure the connectors are aligned correctly.
2. The indicator lights on the charger will show charging status (e.g., red for charging, green for fully charged).
3. Charge the remote controller and FPV goggles using their respective USB charging cables.



Figure 3: The TinyGO drone weighs approximately 54 grams.

This image shows the lightweight design of the TinyGO drone, weighing only 54 grams, which contributes to its agility and flight performance.

## 2. Drone Preparation

1. Inspect the propellers for any damage or cracks. Replace if necessary.
2. Ensure the battery is securely inserted into the drone's battery compartment.
3. Verify that the camera lens is clean and free from obstructions.



Figure 4: Front-top view of the TinyGO drone.

This image highlights the compact design and integrated propeller guards of the TinyGO drone, designed for durability and safe indoor/outdoor flight.

### 3. Remote Controller Setup

1. Power on the GEPRC GR8 Remote Controller.
2. Ensure the remote is bound to the drone. Refer to the binding instructions if the drone and remote are not already paired.
3. Familiarize yourself with the control sticks and buttons.

### 4. FPV Goggles Setup

1. Power on the FPV Goggles.
2. Adjust the head strap for a comfortable fit.
3. Scan for the drone's video feed. Ensure a clear and stable video signal before flight.

## OPERATING INSTRUCTIONS

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### 1. Pre-Flight Checks

1. Ensure all batteries (drone, remote, goggles) are fully charged.
2. Check propellers for damage and ensure they are securely attached.
3. Verify that the flight area is clear of obstacles, people, and animals.
4. Confirm a strong video signal in the FPV goggles.

### 2. Arming the Drone

To arm the drone (start the motors), typically move both control sticks to the bottom-outer corners simultaneously. Refer to the remote controller's specific instructions for exact arming procedures.

### 3. Takeoff and Flight

1. Gently increase the throttle (left stick up) to lift off.
2. Use the right stick to control pitch (forward/backward) and roll (left/right).
3. Use the left stick to control yaw (rotation) and throttle (altitude).
4. Practice hovering and gentle maneuvers in a safe, open space before attempting advanced flights.

### 4. Landing

Slowly decrease the throttle until the drone gently lands. Once on the ground, disarm the motors immediately by moving both control sticks to the bottom-inner corners (or as per your remote's specific disarming procedure).

### 5. Video Recording

The TinyGO 4K drone is capable of 4K video capture. Consult the drone's specific documentation or the GEPRC website for instructions on how to initiate and stop video recording, and how to access recorded footage. Ensure a compatible microSD card (not included) is inserted into the drone's camera slot.

## MAINTENANCE

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

- **Propeller Inspection:** After every crash or hard landing, inspect propellers for bends, cracks, or chips. Replace damaged propellers immediately.
- **Motor Cleaning:** Keep motors free from dirt, dust, and debris. Use compressed air or a soft brush to clean.
- **Frame Inspection:** Check the drone frame for any cracks or damage. Minor cracks can sometimes be repaired with specialized adhesives, but severe damage may require part replacement.
- **Battery Care:** Store LiPo batteries at storage voltage (around 3.8V per cell) if not used for extended periods. Do not leave batteries fully charged or fully discharged for long durations.
- **Firmware Updates:** Periodically check the GEPRC official website for firmware updates for the drone, remote, and goggles. Keeping firmware updated can improve performance and add new features.

## TROUBLESHOOTING

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Problem	Possible Cause	Solution
Drone does not arm/motors do not spin.	Low battery on drone or remote; remote not bound; arming procedure incorrect; safety mode engaged.	Charge batteries; re-bind remote; review arming sequence; check flight controller status lights.
No video feed in FPV goggles.	Goggles not powered on; wrong frequency/channel selected; drone not powered on; damaged video transmitter/camera.	Ensure goggles and drone are on; scan for channels; check antenna connections; contact support if hardware is damaged.
Drone drifts during flight.	Uncalibrated accelerometer; bent propeller; uneven motor thrust.	Calibrate accelerometer (refer to flight controller software); replace bent propellers; check motor connections.

Problem	Possible Cause	Solution
Short flight time.	Battery degradation; over-discharging; heavy payload.	Replace old batteries; avoid over-discharging; reduce unnecessary weight.

## SPECIFICATIONS

Feature	Detail
Brand	GEPRC
Model	TinyGO 4K FPV Whoop RTF Drone
Skill Level	Beginner
Video Capture Format	4K
Video Output Resolution	854x480 Pixels (FPV Goggles)
Connectivity Technology	Radio Frequency
Drone Battery Capacity	2000 Milliamp Hours (Main Battery)
Battery Cell Composition	Lithium Polymer
Drone Material	Plastic
Drone Weight	Approx. 54 grams (0.12 lbs)
Package Dimensions	11.81 x 9.41 x 7.83 inches
First Available Date	October 30, 2021

## WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please visit the official GEPRC website or contact their customer service directly. Keep your purchase receipt as proof of purchase for warranty claims.

**GEPRC Official Website:** [www.geprc.com](http://www.geprc.com)

For additional resources and community support, consider visiting online FPV forums and communities.

## Related Documents - TinyGO 4K FPV Whoop RTF Drone

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	<p><a href="#">GEPRC TinyRadio GR8 Remote Controller Instruction Manual</a></p> <p>Comprehensive instruction manual for the GEPRC TinyRadio GR8 2.4GHz remote controller, detailing its features, setup, operation, binding, calibration, and technical specifications for FPV enthusiasts.</p>
	<p><a href="#">Fat Shark Teleporter V3 RTF FPV Kit User Manual</a></p> <p>Comprehensive user manual for the Fat Shark Teleporter V3 RTF FPV kit, covering setup, operation, specifications, troubleshooting, and warranty information for this FPV goggles system.</p>
	<p><a href="#">Holy Stone HS430 Drone: User Manual and Flight Instructions</a></p> <p>Comprehensive user manual for the Holy Stone HS430 drone, covering setup, operation, safety guidelines, specifications, and troubleshooting. Learn to fly your HS430 drone safely and effectively.</p>
	<p><a href="#">Fat Shark Teleporter V3 RTF FPV Kit User Manual</a></p> <p>User manual for the Fat Shark Teleporter V3 RTF FPV video piloting system, detailing setup, controls, specifications, and troubleshooting for FPV enthusiasts.</p>
	<p><a href="#">DJI O3 Air Unit Easy-to-Use Guide for Beginners   FPV Drone Video Transmission</a></p> <p>A beginner's guide to the DJI O3 Air Unit, covering setup, installation, activation, linking, firmware updates, and accessory changes for FPV drones. Learn about its O3+ technology and features.</p>