GEPRC Vapor-X5 O4 Pro

GEPRC Vapor-X5 HD O4 Pro FPV Drone User Manual

Model: Vapor-X5 O4 Pro (ELRS 2.4G with GPS)

Introduction

This manual provides essential information for the safe and effective operation of your GEPRC Vapor-X5 HD O4 Pro FPV Drone. Please read this manual thoroughly before operating the drone to ensure proper setup, flight, and maintenance. This drone is designed for experienced users due to its advanced features and performance capabilities.

Product Overview

The GEPRC Vapor-X5 HD O4 Pro is a high-performance FPV drone featuring the O4 Air Unit Pro for superior image clarity and enhanced light sensitivity. It is built with durable components, including a robust frame and powerful GEPRC SPEEDX2 E-series motors, designed for dynamic flight and reliability.

Figure 1: Top-front view of the GEPRC Vapor-X5 HD O4 Pro FPV Drone, showcasing its robust frame and propeller configuration.

Figure 2: Top-down view of the GEPRC Vapor-X5 HD O4 Pro FPV Drone, highlighting the central electronics bay and battery strap area.

Included Components

The following items are included with your GEPRC Vapor-X5 HD O4 Pro FPV Drone:

- 1 x Vapor-X5 O4 Pro Drone
- 2 x GEMFAN 5136 Propellers
- 2 x Battery anti-slip pads
- 1 x Spare screw pack (includes M3*10mm, M3*8mm, M3*6mm, M5*28mm screws, and M5 flange nut, M3 rivet nuts)
- 1 x Vapor side panel
- 2 x M20*250mm battery straps
- 1 x L-shaped screwdriver 1.5mm
- 1 x L-shaped screwdriver 2.0mm
- 1 x GoPro mount
- O4 Pro original antenna
- GEPRC SPEEDX2 E-series motors (pre-installed)

Setup

1. Battery Installation

1. Ensure the drone is powered off.
2. Place a battery anti-slip pad on the top plate of the drone.
3. Securely attach a recommended 6S LiPo 1300mAh – 1800mAh battery to the top plate using the provided

M20*250mm battery straps. Ensure the battery is centered and tightly secured to prevent shifting during flight.

4. Connect the battery's XT60 connector to the drone's XT60 connector.

2. Propeller Installation

Install the GEMFAN 5136 propellers according to the motor rotation direction. Ensure propellers are securely fastened to prevent detachment during flight.

Figure 3: Side view of the drone, illustrating the propeller and motor assembly.

3. Receiver Binding (ELRS 2.4G)

For the ELRS 2.4G version, follow the standard ELRS binding procedure with your compatible ELRS transmitter. The O4 Air Unit Pro is typically pre-activated from the factory.

4. GPS Module (Optional)

If using the optional GEP-M10 GPS module, ensure it is correctly connected and configured in the flight controller software (e.g., Betaflight) for GPS functionality.

Operating Instructions

1. Pre-Flight Checks

- Verify all propellers are securely attached and free from damage.
- Ensure the battery is fully charged and securely mounted.
- Check for any loose wires or components.
- Confirm your FPV goggles and remote controller are powered on and properly linked.
- Perform a quick arming test in a safe area before full flight.

2. Flight Environment

Operate the drone in open areas, away from people, animals, buildings, and other obstacles. Be aware of local regulations regarding drone operation.

3. Basic Flight Controls

Familiarize yourself with the flight controller's settings (Betaflight OSD) and your remote controller's stick

assignments for throttle, roll, pitch, and yaw. Practice gentle movements before attempting aggressive maneuvers.

Figure 4: Bottom view of the drone, showing the motor mounts and landing gear.

Maintenance

1. Post-Flight Inspection

- Inspect propellers for cracks, bends, or chips. Replace damaged propellers immediately.
- Check motor bells for debris or damage.
- Examine the frame for any cracks or stress marks, especially on the arms.
- Ensure all screws are tight. Use the provided L-shaped screwdrivers for adjustments.
- Clean the drone's camera lens and air unit vents.

2. Storage

Store the drone in a cool, dry place, away from direct sunlight and extreme temperatures. Disconnect the battery before storage.

Figure 5: Angled side view of the drone, showing the camera and antenna placement.

Troubleshooting

Problem	Possible Cause	Solution
Drone does not power on.	Battery not connected or discharged.	Ensure battery is fully charged and properly connected.
No video feed in FPV goggles.	O4 Air Unit Pro not powered or linked.	Check power connection to O4 Air Unit. Ensure goggles are on the correct channel and linked.
Drone drifts during flight.	Uncalibrated accelerometer/gyro; damaged propeller.	Recalibrate accelerometer in Betaflight. Inspect and replace any damaged propellers.
Poor GPS signal (if applicable).	Obstruction; incorrect configuration.	Move to an open area. Verify GPS settings in Betaflight.

Specifications

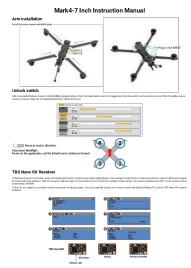
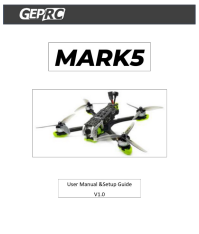
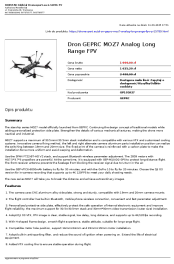
Component	Detail
Model	Vapor-X5 O4 Pro
Frame	GEP-Vapor-X5 O4 Pro frame
Wheelbase	230 mm
Arm Thickness	5.0 mm
Flight Controller (FC)	GEP-F722-HD v2 (MCU: STM32F722, Gyro: ICM42688-P(SPI), Barometer: YES, OSD: Betaflight OSD w/AT7456E)
ESC	TAKER H60_BLS 60A 4IN1 ESC
VTX	O4 Air Unit Pro
Camera	O4 Pro Camera
Antenna	O4 Pro original antenna
Connector	XT60
Optional GPS	GEP-M10 GPS
Motors	GEPRC SPEEDX2 2207E 1960 KV
Propellers	GEMFAN 5136
Weight (PNP Version)	409g ±5g
Receiver (ELRS 2.4G version)	GEPRC ELRS24

Component	Detail
Recommended Battery	6S LiPo 1300mAh – 1800mAh
Flight Time	14-19 min

Support

For technical assistance, setup guidance, or any operational queries, GEPRC offers 24/7 chat support. Our team is available to provide clear, step-by-step assistance to ensure you get the most out of your drone.
Visit the official GEPRC website or contact their customer service channels for detailed support information.

Related Documents - Vapor-X5 O4 Pro

	GEPRC Mark4-7 Inch FPV Drone Instruction Manual Comprehensive instruction manual for the GEPRC Mark4-7 Inch FPV drone, covering arm installation, receiver binding (TBS Nano RX, ELRS), VTX settings, propeller installation, and pre-flight checks.
	GEPRC MARK5 Freestyle Quadcopter User Manual and Setup Guide Comprehensive user manual and setup guide for the GEPRC MARK5 Freestyle Quadcopter, covering specifications, features, binding procedures for various receivers, software installation, transmitter setup, and pre-flight checks.
	GEPRC MOZ7 Analog Long Range FPV Drone - Product Overview Explore the GEPRC MOZ7 Analog Long Range FPV drone. This overview details its advanced features, robust specifications, and included components, highlighting its suitability for extended aerial photography and FPV experiences.
	GEPRC Vapor-D5 HD O4 Pro FPV Drone - High-Performance Quadcopter Explore the GEPRC Vapor-D5 HD O4 Pro FPV Drone, designed for DJI O4 Air Unit compatibility. Features include aluminum components, shock absorption, and a powerful CMOS sensor for immersive flights. Specifications, features, and warranty information provided.

	[GEPRC Cinebot30 User Manual - Cinematic FPV Drone Guide] Comprehensive user manual for the GEPRC Cinebot30 Cinematic FPV drone. Covers specifications, features, setup, binding procedures for DJI, FrSky, TBS, ELRS, Betaflight installation, transmitter configurations, and pre-flight checks.
	[GEPRC Cinebot30 User Manual: Setup, Binding, and Flight Guide] Comprehensive user manual for the GEPRC Cinebot30 HD Quadcopter, covering setup, binding procedures for DJI, FrSky, TBS, and ELRS systems, Betaflight installation, transmitter configuration, pre-flight checks, and specifications.