GEPRC CineLog 35 V2 HD O3

GEPRC CineLog 35 V2 3.5" HD Cinewhoop Drone User Manual

Model: CineLog 35 V2 HD O3 | Brand: GEPRC

1. Introduction

This manual provides essential information for the safe and effective operation of your GEPRC CineLog 35 V2 3.5" HD Cinewhoop Drone. Please read this manual thoroughly before operating the drone to ensure proper setup, flight, and maintenance. The CineLog 35 V2 is a 3.5-inch HD FPV cinematic drone designed for various filming scenarios, integrating cinematic, freestyle, leisure, and safety features.

2. Safety Information

Operating a drone requires adherence to safety guidelines to prevent injury or damage. This product is intended for adult users with intermediate skill levels in drone operation.

- Always operate the drone in open areas, away from people, animals, and obstacles.
- Comply with all local regulations and laws regarding drone operation, including airspace restrictions.
- Ensure the battery is fully charged and securely mounted before each flight. Use recommended XT-60 batteries (1050mah-1300mah).
- Inspect propellers for damage before and after each flight. Replace any damaged propellers immediately.
- Do not operate the drone in adverse weather conditions, such as strong winds, rain, or snow.
- Keep hands and face clear of rotating propellers.
- Perform pre-flight checks, including verifying flight controller settings and signal strength.
- In case of a crash, disconnect the battery immediately and inspect for damage before attempting another flight.

3. Product Overview

3.1 Key Features

- Integrated O3 VTX for high-definition video transmission.
- Strengthened carbon plate and injection protection frame for enhanced durability.
- Increased 7075 aluminum column for structural reinforcement.
- Integrated XT60E1-M power plug with the carbon plate for convenient battery connection.
- Protective frame for O3 Air Unit with accessible memory card and USB ports.

- Equipped with GEP F722-45A AIO V2 high-performance flight controller.
- Powered by SPEEDX2 2105.5 motors (2150KV for 6S) with HQ DT90 propellers.
- Features a GPS module (GEP-M8U) for enhanced navigation and safety functions.
- O3 camera designed with an independent under-hanging shock absorption gimbal.

3.2 Components and Included Items

Figure 1: Overhead view of the GEPRC CineLog 35 V2 HD Cinewhoop Drone, showcasing its carbon fiber frame, propeller guards, and integrated camera system.

The GEPRC CineLog 35 V2 drone comes with the following components and accessories:

- 1x GEPRC CineLog 35 V2 3.5" HD Cinewhoop Drone (with O3 + GPS - 6S, receiver option: PNP, GEPRC ELRS 2.4G, or TBS Nano RX)
- 1x L-shaped screwdriver (1.5mm)
- 1x L-shaped screwdriver (2mm)
- 1x L-shaped screwdriver (3mm)
- 1x Naked Mounting Base
- Additional components: Battery (not included, recommended 1050mah-1300mah XT-60), Camera (O3), Memory Card (for O3 Air Unit), Protective Frame.

4. Setup

4.1 Initial Inspection

Upon unboxing, carefully inspect the drone for any signs of damage during shipping. Ensure all components listed in

Section 3.2 are present.

4.2 Battery Connection

Connect your recommended 1050mah-1300mah XT-60 battery to the integrated XT60E1-M power plug on the carbon plate. Ensure a secure connection. The battery mounting uses a tie with 7075 aluminum parts for fixation.

4.3 Receiver Installation (if applicable)

Depending on your chosen receiver (PNP, GEPRC ELRS 2.4G, or TBS Nano RX), follow the specific installation instructions provided with your receiver module. Ensure proper wiring and binding with your remote controller.

4.4 O3 Air Unit Access

The protective frame for the O3 Air Unit provides access to the memory card slot and USB port for easy data reading and firmware updates. Insert a compatible memory card for recording flight footage.

4.5 Betaflight Configuration

The drone is equipped with a GEP-F722-45A AIO V2 flight controller running Betaflight OSD. Connect the drone to your computer via USB and use the Betaflight Configurator software to verify settings, calibrate sensors, and configure flight modes according to your preferences. Refer to the official Betaflight documentation for detailed configuration steps.

5. Operation

5.1 Pre-Flight Checklist

- Ensure battery is fully charged and securely connected.
- Verify propellers are free from damage and securely attached.
- Check for clear flight path and safe operating environment.
- Confirm remote controller is powered on and bound to the drone.
- Monitor OSD for battery voltage and system status.

5.2 Flight Characteristics

The CineLog 35 V2 is designed for cinematic FPV flight, offering a balance of stability and agility. Its SPEEDX2 2105.5 motors provide ample power for aggressive maneuvers and quick response. The integrated GPS (GEP-M8U) allows for position holding and return-to-home functions, enhancing flight safety and ease of use.
Expected flight time ranges from approximately 5 minutes to 8 minutes 30 seconds, depending on flight style, battery capacity, and environmental conditions.

5.3 Recording with O3 Air Unit

The O3 Air Unit allows for high-quality video recording. Ensure a memory card is inserted into the O3 Air Unit's protective frame. Refer to the O3 Air Unit's specific documentation for detailed instructions on recording modes and settings.

6. Maintenance

- **Regular Cleaning:** Keep the drone clean from dust, dirt, and debris, especially around motors and electronic components. Use a soft brush or compressed air.
- **Propeller Inspection:** Regularly check HQ DT90MM propellers for cracks, chips, or bends. Replace damaged propellers immediately to maintain flight stability and efficiency.
- **Frame Integrity:** Periodically inspect the strengthened carbon plate, injection protection frame, and 7075 aluminum columns for any signs of damage or loosening screws. Tighten screws as needed using the provided L-shaped screwdrivers.

- **Motor Health:** Listen for unusual noises from the SPEEDX2 2105.5 motors during operation. Ensure motors spin freely and are free from obstructions.
- **Battery Care:** Follow manufacturer guidelines for charging, discharging, and storing your XT-60 batteries to prolong their lifespan.
- **Firmware Updates:** Check the GEPRC website for any available firmware updates for the flight controller (GEP-F722-45A AIO V2) and O3 Air Unit to ensure optimal performance and access to new features.

7. Troubleshooting

This section provides general guidance for common issues. For complex problems, refer to online communities, official GEPRC support, or specialized repair services.

- **Drone Not Powering On:**
  - Ensure battery is fully charged.
  - Check XT60E1-M connection for security.
  - Inspect power cables for damage.
- **No Video Feed:**
  - Verify O3 Air Unit is powered and connected.
  - Check antenna connections on the drone and goggles.
  - Ensure O3 Air Unit firmware is up to date.
- **Unstable Flight:**
  - Inspect propellers for damage or imbalance.
  - Check motor screws for tightness.
  - Recalibrate accelerometers and gyroscopes in Betaflight.
  - Ensure flight controller is securely mounted and free from vibrations.
- **GPS Not Locking:**
  - Ensure drone is in an open area with clear sky view.
  - Allow sufficient time for GPS to acquire satellites.
  - Check GPS module (GEP-M8U) connection to the flight controller.

8. Specifications

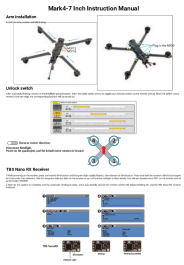
Feature	Detail
Model	CineLog35 V2 HD O3
Brand	GEPRC
Receiver Options	PNP, GEPRC ELRS 2.4G, TBS Nano RX
Weight (CineLog35 V2 HD O3 TBSNanoRX)	285.8g
Motor	SPEEDX2 2105.5-2150KV (6S)
OSD	Betaflight OSD w/AT7456E chip

Feature	Detail
Flight Controller System	GEP-F722-45A AIO V2
Propeller	HQProp D-T90MM
MCU	STM32F722RET6
Flight Time	5'00" - 8'30"
Frame	GEP-CL35 V2
GPS	Yes (GEP-M8U)
Gimbal Plate Thickness	2.0mm
Bottom Plate Thickness	1.5mm
Antenna	5.8G & 2.4G
Wheelbase	142mm
Gyro	ICM 42688-P
Top Plate Thickness	3.5mm
VTX	O3 Air Unit
ESC	8Bit 45A
Camera	O3
Recommended Batteries (Not Included)	XT-60 1050mah-1300mah
Material	Aluminum (components), Carbon Fiber (frame)
Control Type	Remote Control (Remote Control Not Included)
Skill Level	Intermediate

9. Warranty and Support

For specific warranty terms and conditions, please refer to the official GEPRC website or contact GEPRC customer support directly. Keep your proof of purchase for any warranty claims.
For technical assistance, troubleshooting beyond this manual, or spare parts, please visit the official GEPRC support channels or their Amazon store page: GEPRC Amazon Store.

Related Documents

	[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 MATEN 5.8G 2.5W VTX PRO: Specifications, Setup, and Operation Guide] Comprehensive guide to the GEPRC MATEN 5.8G 2.5W VTX PRO FPV Video Transmitter. Learn about specifications, interface definition, IRC setup, frequency tables, and adjustment methods.
	[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 RAD MINI 5.8G 1W VTX: Features, Specifications, and Connection Guide] Detailed information on the GEPRC RAD MINI 5.8G 1W VTX, including its specifications, features, connection diagrams, frequency bands, and operating precautions. This guide covers power levels, heat dissipation, and installation for optimal performance.