

Lumenier QAV-PRO Micro Whoop 2.5 Cinequads Edition Motor Plate

Lumenier QAV-PRO Micro Whoop 2.5" Cinequads Edition Motor Plate User Manual

Model: QAV-PRO Micro Whoop 2.5 Cinequads Edition Motor Plate

1. INTRODUCTION

This manual provides essential information for the Lumenier QAV-PRO Micro Whoop 2.5" Cinequads Edition Motor Plate. This component is designed as a replacement or spare part for the Lumenier QAV-PRO Micro Whoop 2.5" Cinequads Edition FPV quadcopter. It is crucial for the structural integrity and motor mounting of your drone.

Please read this manual thoroughly before installation to ensure proper assembly and safe operation of your quadcopter.

2. PRODUCT OVERVIEW

The Lumenier QAV-PRO Micro Whoop 2.5" Cinequads Edition Motor Plate is a precisely cut carbon fiber component that forms the base structure for mounting motors and integrating with the rest of the quadcopter frame. It is specifically designed for the 2.5-inch Cinequads Edition, offering durability and a lightweight profile.

2.1 What's Included

- 1x Lumenier QAV-PRO Micro Whoop 2.5" Cinequads Edition Motor Plate

2.2 What's Not Included

Please note that this product includes only the motor plate. Bumpers, standoffs, screws, motors, propellers, camera, flight controller, and other quadcopter parts are **not** included and must be purchased separately.

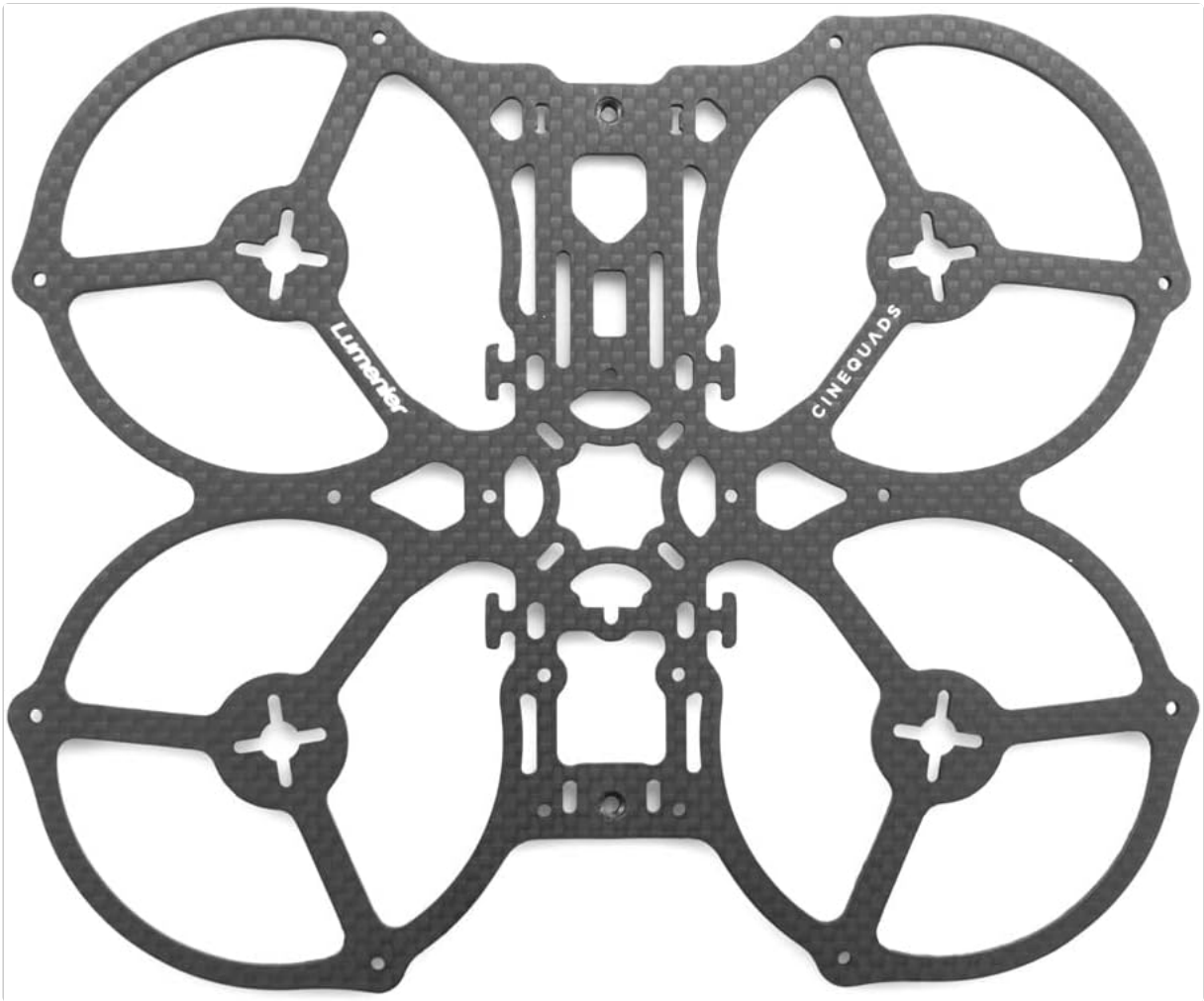


Figure 1: Lumenier QAV-PRO Micro Whoop 2.5" Cinequads Edition Motor Plate. This image displays the Lumenier QAV-PRO Micro Whoop 2.5 Cinequads Edition Motor Plate in a top-down perspective. The plate is made from 2mm quasi-isotropic Japanese carbon fiber, featuring cutouts for motor mounting, central frame attachment, and propeller protection rings. The Lumenier and Cinequads branding are visible on the carbon fiber surface.

3. SPECIFICATIONS

Feature	Detail
Material	2mm Quasi-Isotropic Japanese Carbon Fiber (Matte Finish)
Carbon Fiber Thickness	2mm
Dimensions	178mm x 145mm
Weight	21g (0.74 ounces)
Brand	Lumenier
Model Name	QAV PRO
UPC	764613349801
Manufacturer	Lumenier

4. SETUP AND INSTALLATION

The motor plate serves as the foundation for assembling your Lumenier QAV-PRO Micro Whoop 2.5" Cinequads Edition quadcopter. Follow these general steps for installation. Specific details may vary based on your chosen components (motors, flight controller, etc.).

4.1 Required Tools and Additional Components

- Small Phillips head screwdriver
- Hex wrenches (appropriate sizes for your frame hardware)
- Thread-locking compound (e.g., Loctite 242, optional but recommended for motor screws)
- Motors (4x)
- Flight Controller
- ESCs (Electronic Speed Controllers) or 4-in-1 ESC
- Frame hardware (standoffs, screws, nuts)
- Propellers

4.2 Installation Steps

1. **Inspect the Plate:** Carefully examine the motor plate for any manufacturing defects or damage.
2. **Attach Standoffs:** Secure the frame standoffs to the designated mounting points on the motor plate using the appropriate screws. Ensure they are tightened securely but do not overtighten.
3. **Mount Motors:** Attach your chosen motors to the motor mounting holes on each arm of the plate. Use the provided motor screws and, if desired, a small amount of thread-locking compound to prevent screws from loosening due to vibration. Ensure motor wires are routed cleanly.
4. **Integrate with Frame:** Continue assembling the rest of your QAV-PRO Micro Whoop 2.5" Cinequads Edition frame, attaching the top plate, camera mounts, and other components as per your frame's specific instructions.
5. **Install Electronics:** Mount your flight controller, ESCs, receiver, and other electronics onto the assembled frame, ensuring proper wire management and connections.
6. **Final Check:** Before powering on, double-check all screw connections, wire routing, and component placement to ensure everything is secure and correctly installed.



Figure 2: Partially assembled Lumenier QAV-PRO Micro Whoop 2.5 Cinequads Edition frame. This image shows the Lumenier QAV-PRO Micro Whoop 2.5 Cinequads Edition FPV quadcopter frame partially assembled. The motor plate is visible as the base structure, with standoffs, top plates, and battery straps attached. An arrow points to the motor plate, indicating its position within the overall drone assembly. This illustrates how the motor plate integrates with other components to form the complete quadcopter frame.

5. OPERATING CONSIDERATIONS

As the motor plate is a structural component, its operation is passive. However, its proper installation is critical for the safe and effective operation of the entire quadcopter. Ensure all motors are securely fastened and that the plate itself is free from cracks or damage that could compromise flight safety.

6. MAINTENANCE

Regular inspection and maintenance of your motor plate are essential for the longevity and safety of your FPV quadcopter.

- **Visual Inspection:** After any crash or hard landing, carefully inspect the carbon fiber motor plate for cracks, delamination, or stress marks. Even small cracks can compromise structural integrity.
- **Screw Tightness:** Periodically check the tightness of all screws attaching the motors to the plate and the standoffs to the plate. Vibrations can cause screws to loosen over time.
- **Cleaning:** Keep the motor plate clean from dirt, dust, and debris. Use a soft, dry cloth or compressed air. Avoid harsh chemicals that could damage the carbon fiber.
- **Replacement:** If any significant damage is found, replace the motor plate immediately to prevent catastrophic failure during flight.

7. TROUBLESHOOTING

Issues related directly to the motor plate are typically structural. If you experience any of the following, inspect your motor plate:

- **Excessive Vibration:** If your quadcopter exhibits unusual vibrations, check if any motor screws are loose or if the motor plate itself has developed a crack.
- **Motor Wobble:** A wobbly motor could indicate loose mounting screws or damage to the motor mounting area on the plate.
- **Unstable Flight:** While many factors contribute to unstable flight, a compromised motor plate can lead to uneven motor thrust distribution and instability.

If you suspect the motor plate is damaged, replace it with a new one to ensure flight safety.

8. SAFETY INFORMATION

- Always handle carbon fiber components with care to avoid splinters.
- Ensure all screws are tightened appropriately. Overtightening can strip threads or crack carbon fiber; undertightening can lead to component separation during flight.
- Never fly a quadcopter with damaged structural components.
- Keep small parts away from children.



9. WARRANTY AND SUPPORT





For specific warranty information regarding your Lumenier QAV-PRO Micro Whoop 2.5" Cinequads Edition Motor Plate, please refer to the official Lumenier website or contact your retailer. General product support and technical assistance can often be found through the manufacturer's online resources or community forums dedicated to FPV drones.

For further assistance, please visit the [Lumenier Store on Amazon](#).

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Related Documents - QAV-PRO Micro Whoop 2.5 Cinequads Edition Motor Plate

	<p>Lumenier QAV-PRO Mega Whoop Professional FPV Drone Product Manual</p> <p>This product manual provides detailed assembly instructions for the Lumenier QAV-PRO Mega Whoop, a professional FPV drone frame kit designed for cinematic FPV applications. It covers all steps from pre-assembly of guards and plates to final assembly and accessory mounting.</p>
	<p>Lumenier ELITE PRO 100A 4-in-1 ESC Product Manual</p> <p>Product manual for the Lumenier ELITE PRO 100A 4-in-1 ESC, detailing specifications, features, and wiring diagram for 6-12S battery systems.</p>

 <p>202311</p>	<p>Lumenier LUX F765 Flight Controller - NDAA: Specifications & Firmware Guide</p> <p>Comprehensive guide to the Lumenier LUX F765 Flight Controller NDAA, including specifications, pinmap details, and step-by-step instructions for flashing Betaflight, Ardupilot, and PX4 firmware.</p>
 <p>20231117</p>	<p>Lumenier N2O Extreme 1350mAh 4s 150c Lipo Battery - Material Safety Data Sheet</p> <p>Material Safety Data Sheet (MSDS) for the Lumenier N2O Extreme 1350mAh 4s 150c Lipo Battery. This document provides comprehensive information on chemical identification, hazards, composition, first-aid measures, fire-fighting, handling, storage, physical and chemical properties, stability, toxicological information, ecological information, disposal, transport, and regulatory information.</p>
 <p>20231117</p>	<p>Lumenier N2O Feather-Lite 750mAh 2S 100c LiPo Battery - XT-30 Material Safety Data Sheet (MSDS)</p> <p>Material Safety Data Sheet (MSDS) for the Lumenier N2O Feather-Lite 750mAh 2S 100c LiPo Battery - XT-30, detailing chemical identification, hazards, composition, handling, safety measures, and transport information.</p>
 <p>20231117</p>	<p>Lumenier 550mAh 1S 90c Micro HV LiPo Battery MSDS Report</p> <p>Material Safety Data Sheet (MSDS) for the Lumenier 550mAh 1S 90c Micro HV LiPo Battery, detailing hazard identification, first-aid measures, handling, storage, exposure controls, physical properties, stability, toxicological information, ecological information, disposal, and transport regulations.</p>