

OMPHOBBY M2 V3 PRO

OMPHOBBY M2 V3 PRO RC Helicopter Instruction Manual

Model: **M2 V3 PRO** | Brand: **OMPHOBBY**

IMPORTANT SAFETY INFORMATION

The OMPHOBBY M2 V3 PRO RC Helicopter is a professional-grade remote control aircraft designed for experienced adult users. **It is not a toy and is unsuitable for children or beginners.** Improper handling can lead to serious injury or damage to property.

- Always operate the helicopter in a safe, open area, away from people, animals, buildings, and high-voltage cables.
- Ensure all components are securely attached and in good working order before each flight.
- Never attempt to modify the helicopter's components or flight control system unless specifically instructed by the manufacturer.
- Always disconnect the battery after use and store it safely.
- Familiarize yourself with all local regulations regarding RC aircraft operation.



Image: The back of the OMPHOBBY M2 V3 PRO product box, displaying important safety warnings and manufacturer details, including a '14+' age recommendation and symbols indicating no touching of rotating parts and no flying near people or power lines.

PRODUCT OVERVIEW

The OMPHOBBY M2 V3 PRO is a high-performance 200-class mini RC helicopter designed for advanced 3D flight. It features a lightweight design, direct drive brushless motors, and the advanced OFS3 flight control system, offering precise control and extended flight times.



Image: The OMPHOBBY M2 V3 PRO RC Helicopter, featuring an orange, blue, and white canopy, with black main and tail rotor blades. The helicopter is shown stationary, highlighting its sleek design.

Key Features:

- **App Tuning & Telemetry:** Adjust flight parameters and monitor real-time data via a dedicated smartphone application.
- **Smart OFS3 Flight Control:** Offers Stabilize, Soft 3D, and Violet 3D flight modes for versatile performance.
- **Lightweight Design:** Redesigned airframe is 25g lighter than previous models, contributing to longer flight times.
- **Premium Black Aluminum Parts:** Enhanced durability and a unified aesthetic with other OMPHOBBY models.
- **Unmatched Tail Authority:** Rigid carbon tail, efficient APEX 45 prop, and optimized R13X-3 tail motor for precise tail control.



Image: The OMPHOBBY M2 V3 PRO RC Helicopter in orange, blue, and white, captured mid-flight against a blurred green background of trees, demonstrating its agility and outdoor capability.

WHAT'S IN THE BOX

The OMPHOBBY M2 V3 PRO is a Plug-N-Play (PNP) version, meaning it comes assembled but requires a separate transmitter and compatible receiver (not included) to operate. Please verify all components are present upon unboxing.

- OMPHOBBY M2 V3 PRO RC Helicopter (assembled)
- Main Rotor Blades
- Tail Rotor Blade
- Flight Battery (1 Lithium Ion battery included)
- Instruction Manual
- Small parts and tools for minor adjustments



Image: The OMPHOBBY M2 V3 PRO helicopter and its included accessories, such as main blades, tail blade, battery, and small parts, neatly laid out beside the product packaging.



Image: The OMPHOBBY M2 V3 PRO helicopter securely placed within its custom-fitted foam carrying case, demonstrating safe storage and transport.

SETUP

Transmitter and Receiver Pairing

As a PNP model, you will need to provide your own compatible transmitter and receiver. The M2 V3 PRO is compatible with various systems including Futaba S-FHSS, Spektrum DSMX/DSM2, and FrSky. Refer to your specific receiver and transmitter manuals for detailed pairing instructions. Ensure the receiver is correctly connected to the OFS3 flight controller.

Battery Installation

Carefully insert the provided Lithium Ion flight battery into the designated battery compartment. Ensure the battery is fully charged before its first use and subsequent flights. Connect the battery to the helicopter's power connector, ensuring correct polarity.

Pre-Flight Checks

Before every flight, perform a thorough visual inspection:

- Check main and tail rotor blades for any damage, cracks, or loose connections.
- Ensure all screws and fasteners are tight.
- Verify that all servo linkages move freely and are properly connected.
- Confirm the flight battery is fully charged and securely installed.

App Tuning & Telemetry

The OFS3 flight controller allows for advanced tuning and real-time telemetry via a smartphone application. Download the official OMPHOBBY app from your device's app store. Connect your smartphone to the helicopter's flight controller via Bluetooth (if available) or a compatible data link.



Image: The OMPHOBBY Flight System 3 (OFS3) module, a black rectangular unit with various ports and indicator lights, shown next to a smartphone displaying the helicopter's tuning application interface. This illustrates the app tuning capability. Through the app, you can:

- Adjust flight parameters such as gain, rates, and collective pitch curves.
- Monitor real-time telemetry data including battery voltage, current draw, motor RPM, and temperature.

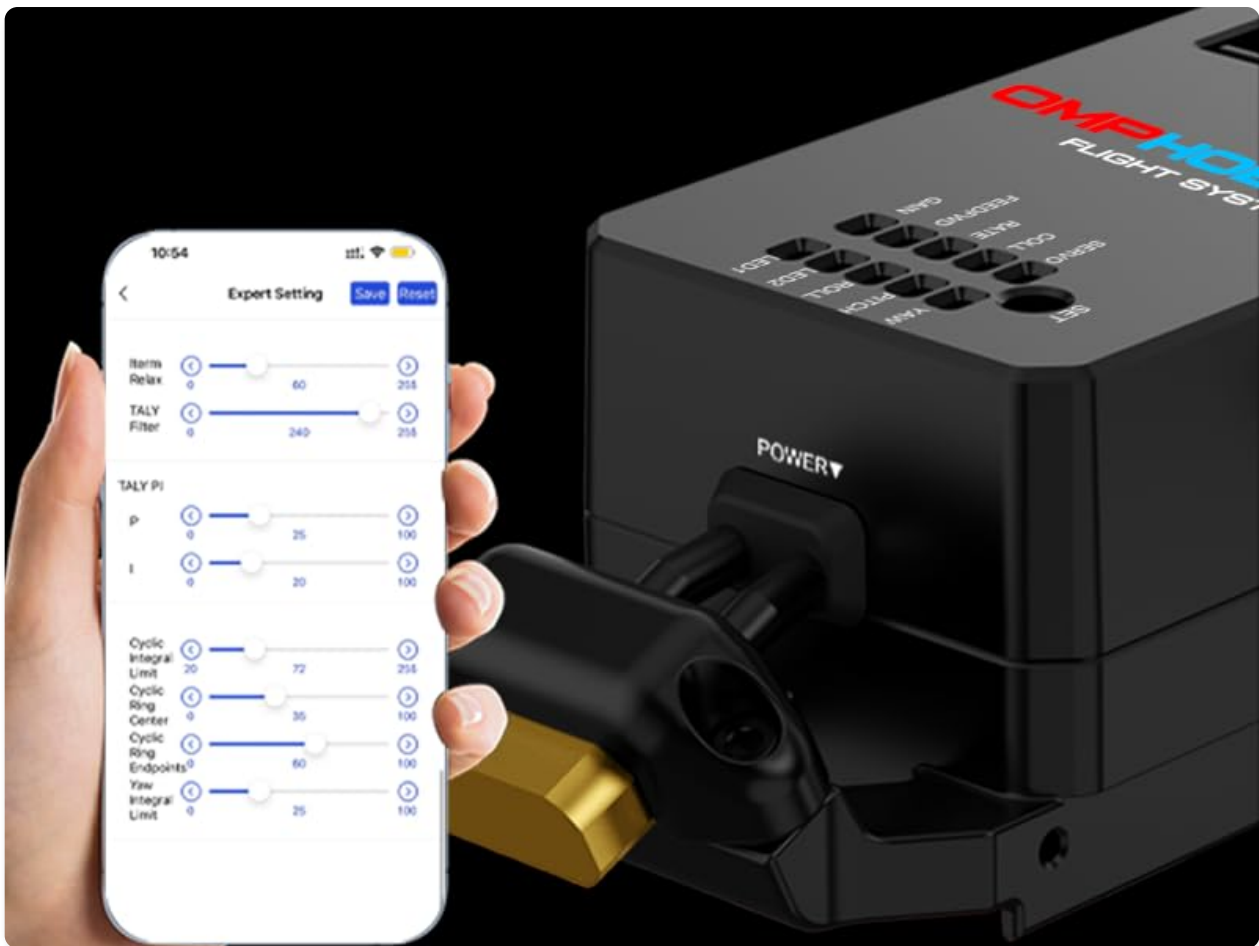


Image: A smartphone screen displaying the 'Expert Setting' interface of the OMPHOBBY tuning app, showing sliders for various flight parameters like P, I, Cyclic Integral Limit, and Yaw Integral Limit, allowing for fine-tuned adjustments.



Image: A close-up of a radio transmitter screen showing real-time telemetry data, including receiver battery voltage (RxBt), current (Curr), rotor RPM (NR), battery capacity used (Capa), and temperature (Tmp), providing critical flight information.

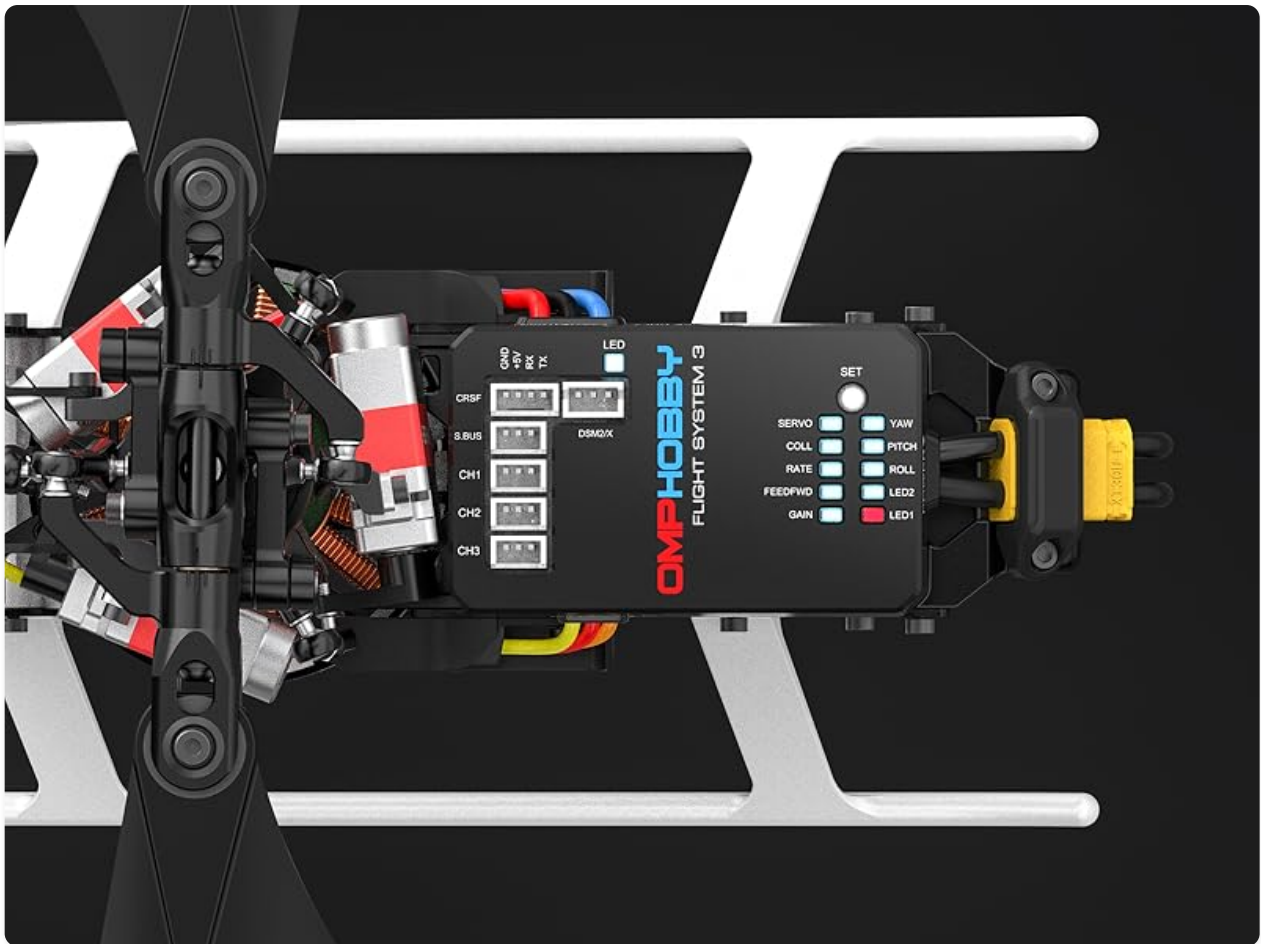


Image: A top-down view of the OMPHOBBY M2 V3 PRO's internal electronics, clearly showing the black OFS3 Flight System 3 module mounted centrally within the carbon fiber frame, with various wires connected.

OPERATING INSTRUCTIONS

Flight Modes

The OFS3 flight controller offers three distinct flight modes to cater to different skill levels and flight styles:

- **Stabilize Mode:** Provides self-leveling assistance, ideal for learning basic maneuvers and maintaining stable flight.
- **Soft 3D Mode:** Offers increased agility for mild aerobatics while still providing some stability assistance.
- **Violet 3D Mode:** Full 3D capability with no self-leveling, providing maximum control for advanced aerobatic maneuvers.

First Flight

For your initial flights, choose a large, open area with minimal wind. Ensure your transmitter is properly configured and bound to the helicopter. Start in Stabilize Mode to get accustomed to the controls. Gradually increase throttle to lift off and practice gentle hovering before attempting forward flight or more complex maneuvers.

Basic Controls

The M2 V3 PRO utilizes standard RC helicopter controls:

- **Collective:** Controls the vertical lift (up/down).
- **Cyclic (Aileron/Elevator):** Controls forward/backward and left/right movement.
- **Rudder:** Controls yaw (rotation around the vertical axis).

- **Throttle:** Controls rotor speed (often linked with collective in collective pitch helicopters).



Image: The orange OMPHOBBY M2 V3 PRO RC Helicopter in flight, viewed from the side, showcasing its dynamic capabilities against a clear sky and distant landscape.

MAINTENANCE

Regular maintenance is crucial for the longevity and safe operation of your OMPHOBBY M2 V3 PRO. Perform these checks after every few flights or before extended storage:

- **Blade Inspection:** Check main and tail rotor blades for any nicks, cracks, or signs of stress. Replace damaged blades immediately.
 - **Motor and Gearbox:** Listen for unusual noises during operation. Ensure the direct drive brushless motors are free of debris.
 - **Connections:** Verify all electrical connections are secure and free from corrosion.
 - **Cleaning:** Gently clean the helicopter with a soft, dry cloth. Avoid using solvents or harsh chemicals.
 - **Storage:** Store the helicopter in a cool, dry place, away from direct sunlight and extreme temperatures. Disconnect the battery for long-term storage.
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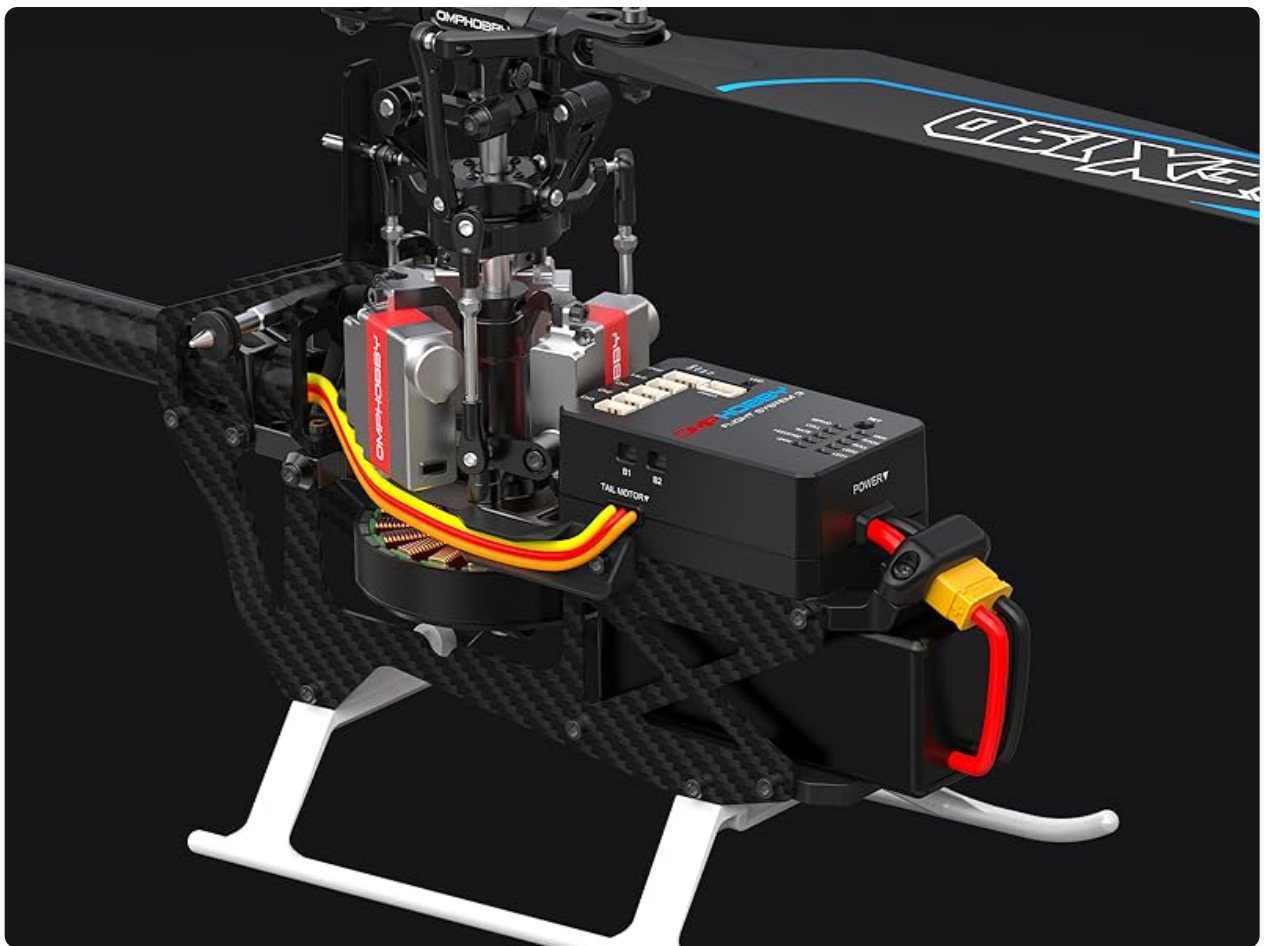


Image: A detailed side view of the OMPHOBBY M2 V3 PRO's internal structure, revealing the carbon fiber frame, the OFS3 flight controller, and the battery securely mounted, illustrating the compact and robust design.



Image: A close-up view of the OMPHOBBY M2 V3 PRO's main rotor blades (APEX190) and the tail rotor blade (APEX45), highlighting their design and the branding, essential components for flight control.

TROUBLESHOOTING

If you encounter issues with your OMPHOBBY M2 V3 PRO, consider the following common troubleshooting steps:

- **Helicopter Not Responding:**
 - Ensure the flight battery is charged and properly connected.
 - Verify your transmitter is powered on and correctly bound to the receiver.
 - Check for any loose wires or damaged components.
- **Unstable Flight/Drifting:**
 - Check for bent or damaged main/tail rotor blades.
 - Ensure the flight controller is securely mounted and level.
 - Recalibrate the flight controller if necessary (refer to app instructions).
 - Adjust flight parameters via the app if the issue persists.
- **Motor Not Spinning:**
 - Check motor connections to the flight controller.
 - Ensure the battery is charged.
 - Inspect the motor for any physical damage or obstructions.
- **Short Flight Times:**
 - Ensure the battery is fully charged before each flight.
 - Check battery health; older batteries may have reduced capacity.
 - Verify no excessive drag from damaged components.

For persistent issues, consult the OMPHOBBY official support resources or community forums for further assistance.

SPECIFICATIONS

Feature	Specification
Product Dimensions	17.5 x 6.3 x 4.3 inches (444.5 x 160 x 109.2 mm)
Item Weight	2 pounds (approx. 320g helicopter weight)
Recommended Age	14 years and up (Adults Only)
Battery	1 Lithium Ion battery (included)
Flight Control System	OFS3 Flight Control
Motor Type	Brushless Direct Drive
Required for Operation	Transmitter and compatible receiver (PNP version)



Image: A technical diagram of the OMPHOBBY M2 V3 PRO helicopter, illustrating its key dimensions in both millimeters and inches, including overall length (414mm/16.3in), rotor diameter (434mm/17in), and height (133mm/5.23in).

WARRANTY AND SUPPORT


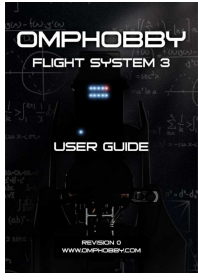


The OMPHOBBY M2 V3 PRO RC Helicopter is manufactured by OMPHOBBY. For specific warranty terms and conditions, please refer to the official OMPHOBBY website or contact their customer support directly. Warranty coverage typically addresses manufacturing defects and does not cover damage resulting from improper use, accidents, or unauthorized modifications.

For additional support, spare parts, or to explore other OMPHOBBY products, please visit the official OMPHOBBY brand store:

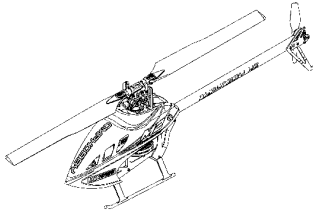
[Visit the OMPHOBBY Store on Amazon](#)

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Related Documents

	<p>OMPHOBBY M2 V3 PRO Micro R/C Helicopter Instruction Manual</p> <p>Comprehensive instruction manual for the OMPHOBBY M2 V3 PRO, a 200-sized micro R/C helicopter. Covers assembly, specifications, features, safety precautions, and parts list.</p>
	<p>OMPHOBBY Flight System 3 (OFS3) User Guide</p> <p>Comprehensive user guide for the OMPHOBBY Flight System 3 (OFS3), detailing its features, setup, operation, and advanced functionalities for micro RC helicopters.</p>
	<p>OMPHOBBY M2 V3 PRO Instruction Manual</p> <p>Comprehensive instruction manual for the OMPHOBBY M2 V3 PRO, a 200-sized micro R/C helicopter. Covers safety precautions, assembly steps, specifications, and parts lists.</p>
	<p>OMPHOBBY M2 Helicopter Instruction Manual</p> <p>Comprehensive instruction manual for the OMPHOBBY M2 RC helicopter, covering assembly, safety precautions, specifications, and flight parameter settings.</p>

M2 V3 PRO INSTRUCTION MANUAL



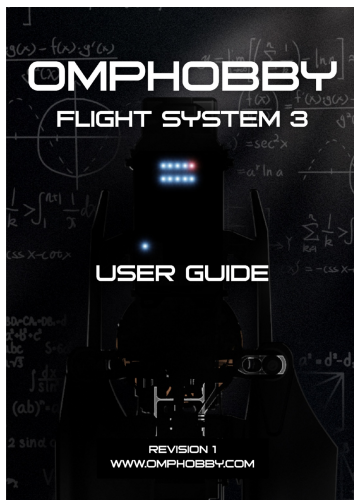
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The M2 V3 PRO is the latest and most advanced 200-sized
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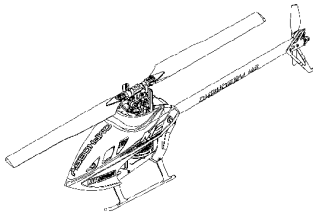
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Updated Setting RPM by Throttle Percentage with resonance ranges Updated
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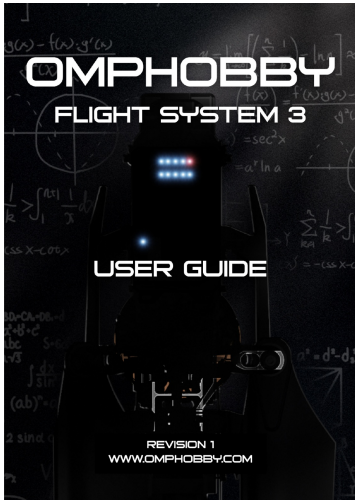
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Comprehensive instruction manual for the OMPHOBBY M2 V3 PRO, a 200-sized
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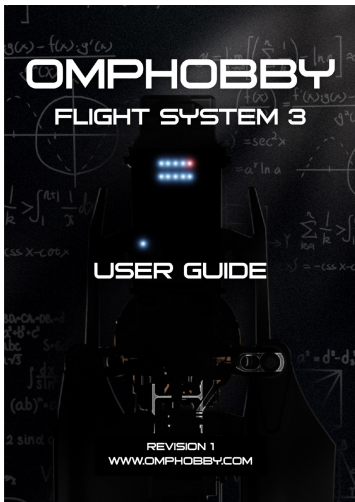


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