

## OMPHOBBY M2 V3 PRO

# OMPHOBBY M2 V3 PRO RC Helicopter User Manual

Model: M2 V3 PRO

## 1. INTRODUCTION

This manual provides essential information for the setup, operation, and maintenance of your OMPHOBBY M2 V3 PRO RC Helicopter. Designed for experienced adult pilots, the M2 V3 PRO features advanced OFS3 flight control, APP tuning capabilities, and real-time telemetry. Please read this manual thoroughly before operating the helicopter to ensure safe and optimal performance.



The OMPHOBBY M2 V3 PRO RC Helicopter, showcasing its design and yellow canopy.



The OMPHOBBY M2 V3 PRO RC Helicopter in flight, demonstrating its agility.

## 2. SAFETY PRECAUTIONS

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The OMPHOBBY M2 V3 PRO is a high-performance remote-controlled helicopter and not a toy. It requires significant skill and experience to operate safely. Failure to operate this product responsibly can result in property damage, serious injury, or death. Always adhere to the following safety guidelines:

- **Adults Only:** This product is intended for adults aged 14 years and older with prior RC helicopter experience. It is not suitable for children or beginners.
- **Read the Manual:** Understand all instructions and warnings before use.
- **Safe Environment:** Operate in open areas, away from people, animals, buildings, power lines, and other obstacles.
- **Pre-Flight Checks:** Always perform a thorough pre-flight inspection of the helicopter and ensure all components are functioning correctly.
- **Battery Safety:** Handle LiPo batteries with extreme care. Follow all charging, discharging, and storage instructions.
- **Weather Conditions:** Do not fly in strong winds, rain, or other adverse weather conditions.
- **Respect Local Regulations:** Be aware of and comply with all local laws and regulations regarding RC aircraft operation.



Important safety warnings and age recommendations displayed on the product packaging.

### 3. PACKAGE CONTENTS

The OMPHOBBY M2 V3 PRO is supplied as a Plug-N-Play (PNP) version. This means the helicopter is largely assembled, but requires a separate transmitter and compatible receiver (not included) for operation. Please verify all items are present upon unboxing:

- OMPHOBBY M2 V3 PRO RC Helicopter (assembled)
- Flight Battery (1 Lithium Ion battery included)
- Main Rotor Blades
- Tail Rotor Blades
- Spare Parts Kit (e.g., screws, linkages)
- User Manual

**Note:** A compatible radio transmitter and receiver (e.g., Futaba S-FHSS, Spektrum DSMX/DSM2, FrSky) are required and sold separately.



The OMPHOBBY M2 V3 PRO helicopter securely packed in its custom carrying case.



Contents of the OMPHOBBY M2 V3 PRO package, including the helicopter, battery, and spare parts.

## 4. COMPONENTS OVERVIEW

The M2 V3 PRO features a robust design with high-quality components for optimal performance and durability.

- **OFS3 Flight Control System:** The central brain managing flight stability and control.
- **Brushless Direct Drive Motors:** Provide efficient and powerful main and tail rotor propulsion.
- **Carbon Fiber Frame:** Lightweight yet rigid structure for enhanced flight characteristics.
- **Black Anodized Aluminum Parts:** Premium components for increased durability and aesthetic appeal.
- **APEX 45 Tail Propeller:** Optimized for precise tail authority and reduced noise.



A detailed view of the internal components, including the flight controller and brushless motors.



An exploded diagram illustrating the various components of the M2 V3 PRO helicopter.



Close-up of the precision-machined black anodized aluminum components.

## 5. SETUP

Before your first flight, ensure proper setup and configuration.

### 5.1 Initial Inspection

Carefully remove the helicopter from its packaging. Inspect for any visible damage during shipping. Check that all screws are tight and moving parts operate smoothly without excessive play.

### 5.2 Battery Installation and Charging

1. Ensure the flight battery is fully charged using a compatible LiPo charger. Refer to your charger's manual for proper charging procedures.
2. Carefully insert the charged battery into the helicopter's battery compartment.
3. Secure the battery to prevent movement during flight.
4. Connect the battery's main power connector to the helicopter's ESC (Electronic Speed Controller) connector.



The OMPHOBBY M2 V3 PRO with its flight battery properly installed and connected.

### 5.3 Transmitter and Receiver Binding

Since the M2 V3 PRO is a PNP model, you will need to bind your compatible receiver (not included) to your transmitter (not included). The specific binding procedure varies depending on your chosen radio system (e.g., Futaba, Spektrum, FrSky). Refer to your receiver and transmitter manuals for detailed binding instructions.

### 5.4 Pre-Flight Checks

Before every flight, perform the following checks:

- Ensure the flight battery is fully charged and securely mounted.
- Verify the transmitter battery is charged.

- Check all control surfaces (main rotor, tail rotor, swashplate) respond correctly to transmitter inputs.
- Confirm main and tail rotor blades are free from damage and securely attached.
- Listen for any unusual noises during initial spool-up.

## 6. OPERATING INSTRUCTIONS

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The OMPHOBBY M2 V3 PRO is designed for advanced 3D flight. Familiarity with RC helicopter controls and flight dynamics is crucial.

### 6.1 Flight Modes

The OFS3 Flight Control system offers three distinct flight modes:

- **Stabilize Mode:** Provides enhanced stability, ideal for gentle flight and practicing basic maneuvers.
- **Soft 3D Mode:** Offers a balance of stability and agility, suitable for learning intermediate 3D maneuvers.
- **Violet 3D Mode:** Unlocks full 3D performance for aggressive and advanced aerobatics.

Switching between modes can typically be configured on your transmitter. Refer to your transmitter's manual for setup details.

### 6.2 Take-off and Landing

Perform take-offs and landings in a controlled manner, gradually increasing throttle for take-off and smoothly reducing it for landing. Always maintain visual line of sight with the helicopter.



The OMPHOBBY M2 V3 PRO helicopter performing a stable flight maneuver against a clear sky.

## 7. APP TUNING & TELEMETRY

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The OMPHOBBY M2 V3 PRO supports smartphone application tuning and real-time telemetry, allowing for personalized flight parameter adjustments and monitoring.

### 7.1 Connecting to the App

Download the official OMPHOBBY flight control app from your smartphone's app store. Power on the helicopter and connect your smartphone to the helicopter's flight controller via Bluetooth (if available) or a dedicated connection module (sold separately).

### 7.2 Parameter Adjustment

The app allows you to fine-tune various flight parameters, including:

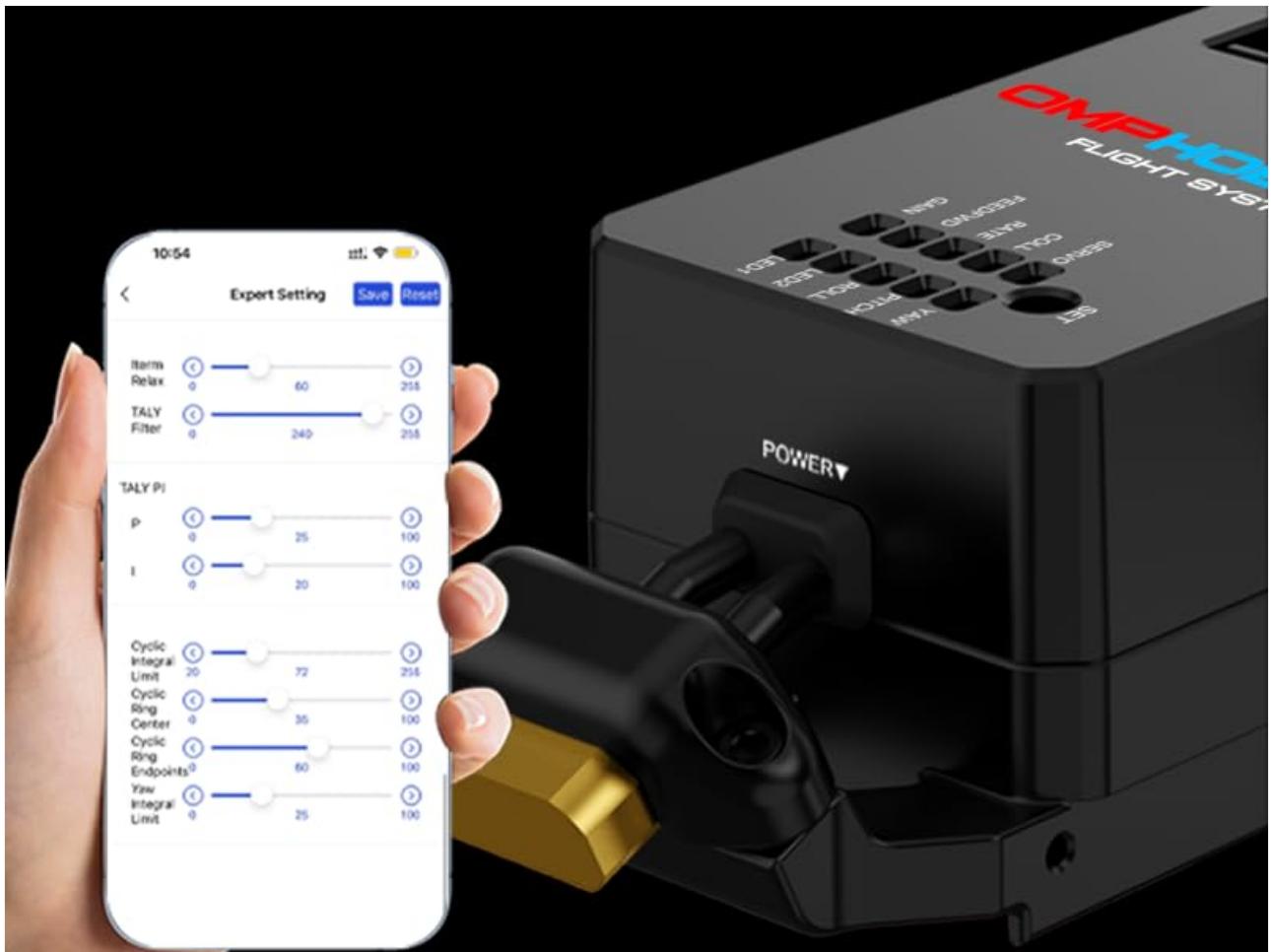
- Collective and Cyclic Pitch
- Gain Settings (Roll, Pitch, Yaw)
- Flight Mode Characteristics

- Tail Authority Settings

Adjust parameters incrementally and test changes in a safe environment. Incorrect settings can lead to unstable flight.



The smartphone application interface for adjusting flight parameters on the OMPHOBBY M2 V3 PRO.



The expert settings menu within the OMPHOBBY tuning app, allowing for detailed parameter adjustments.

### 7.3 Real-time Telemetry

The app provides real-time telemetry data, allowing you to monitor critical flight information such as:

- Battery Voltage
- Current Draw
- Motor RPM
- Temperature

Monitoring telemetry data helps in optimizing flight performance and identifying potential issues.



A display showing real-time telemetry data, including battery voltage, current, RPM, and temperature.

## 8. MAINTENANCE

Regular maintenance is crucial for the longevity and safe operation of your M2 V3 PRO.

### 8.1 Post-Flight Inspection

After each flight, perform a visual inspection:

- Check main and tail rotor blades for cracks, chips, or damage. Replace if necessary.
- Inspect the landing gear for any bends or breaks.
- Ensure all linkages and control rods are securely attached and move freely.
- Check for loose screws or connections.
- Examine the battery for swelling or damage.

### 8.2 Cleaning

Gently clean the helicopter with a soft, dry cloth. Avoid using solvents or harsh chemicals that could damage components. Remove any debris from the motors and moving parts.

### 8.3 Battery Care

Proper LiPo battery care is essential:

- Always charge batteries on a fire-resistant surface and never leave them unattended during charging.
- Store batteries at a storage voltage (typically 3.8V per cell) when not in use for extended periods.
- Do not overcharge or over-discharge batteries.
- Dispose of damaged or swollen batteries safely according to local regulations.

## 9. TROUBLESHOOTING

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This section addresses common issues you might encounter with your OMPHOBBY M2 V3 PRO.

Problem	Possible Cause	Solution
Helicopter does not power on	Disconnected battery; discharged battery; faulty ESC/flight controller	Ensure battery is connected and charged. Check all wiring connections.
Unstable flight / erratic behavior	Incorrect flight controller settings; damaged blades; loose components; vibration	Check app settings and recalibrate if necessary. Inspect blades for damage. Tighten all screws. Balance blades.
No response from controls	Transmitter/receiver not bound; discharged transmitter battery; signal interference	Re-bind transmitter and receiver. Charge transmitter battery. Move to an area with less interference.
Tail drifts or lacks authority	Damaged tail rotor/motor; incorrect tail gain settings; loose tail components	Inspect tail rotor and motor. Adjust tail gain in the app. Check tail boom and linkages.

If you encounter issues not listed here or cannot resolve a problem, please contact OMPHOBBY customer support for assistance.

## 10. SPECIFICATIONS

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Key technical specifications for the OMPHOBBY M2 V3 PRO RC Helicopter:

Feature	Detail
Model	M2 V3 PRO
Product Dimensions	17.5 x 6.3 x 4.3 inches (444.5 x 160 x 109.2 mm)
Item Weight	320g (0.7 lbs)
Flight Control	OFS3 Flight Control System
Motor Type	Brushless Direct Drive (Main & Tail)
Battery	1 Lithium Ion battery (included)
Recommended Age	14 years and up
Features	APP Tuning, Telemetry, 6CH, 3D Flight Capable



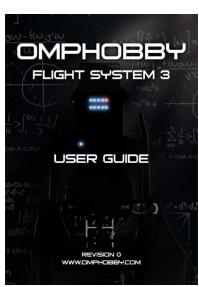
Detailed dimensions of the OMPHOBBY M2 V3 PRO helicopter.

## 11. WARRANTY AND SUPPORT

OMPHOBBY products are manufactured to high standards. For warranty information, please refer to the documentation included with your purchase or visit the official OMPHOBBY website. For technical support, spare parts, or further assistance, please contact OMPHOBBY customer service through their official channels. Keep your proof of purchase for warranty claims.

**OMPHOBBY Official Store:** [Visit the OMPHOBBY Store on Amazon](#)

### Related Documents - M2 V3 PRO

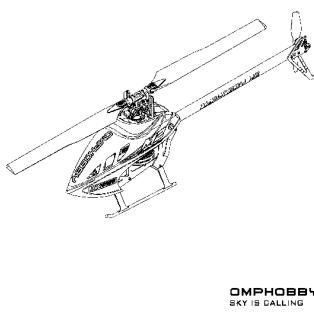


#### [OMPHOBBY Flight System 3 \(OFS3\) User Guide](#)

Comprehensive user guide for the OMPHOBBY Flight System 3 (OFS3), detailing its features, setup, operation, and advanced functionalities for micro RC helicopters.

 <p><b>M2 V3 PRO</b> INSTRUCTION MANUAL</p> <p>OMP HOBBY DAY IC CHARGING</p> <p>Thank you for purchasing the OMPHOBBY M2 V3 PRO. This is the best helicopter for you to start flying. Please read this manual carefully before flying. Please refer to the OMPHOBBY website for more information about the M2 V3 PRO. Keep this manual for future reference.</p>	<p><a href="#"><u>OMP Hobby M2 V3 PRO Micro R/C Helicopter Instruction Manual</u></a></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>
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 <p><b>OMP HOBBY</b> <b>M1 EVO</b> Instruction Manual / Bedienungsanleitung / Manual de instrucciones</p> <p>OMP HOBBY DAY IC CHARGING</p>	<p><a href="#"><u>OMP Hobby M1 EVO RC Helicopter Instruction Manual</u></a></p> <p>Comprehensive instruction manual for the OMPHOBBY M1 EVO RC helicopter, detailing assembly, setup, flight controls, safety precautions, and troubleshooting.</p>
 <p><b>M2 EVO</b> INSTRUCTION MANUAL 使用说明书</p> <p>OMP HOBBY DAY IC CHARGING</p>	<p><a href="#"><u>OMP Hobby M2 Helicopter Instruction Manual</u></a></p> <p>Comprehensive instruction manual for the OMPHOBBY M2 helicopter, covering assembly, safety precautions, specifications, and flight parameter settings.</p>

Documents - OMPHOBBY – M2 V3 PRO



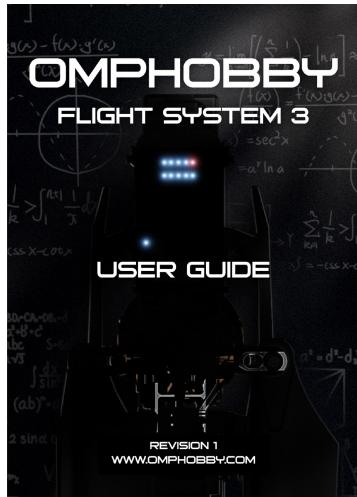
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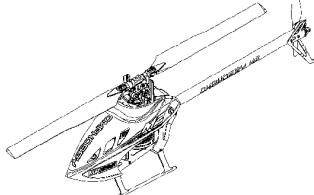
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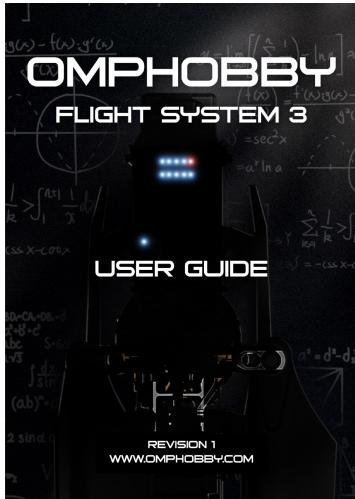
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Comprehensive instruction manual for the OMPHOBBY M2 V3 PRO, a 200-sized micro R/C helicopter. Covers safety precautions, assembly steps, specifications, and parts lists.

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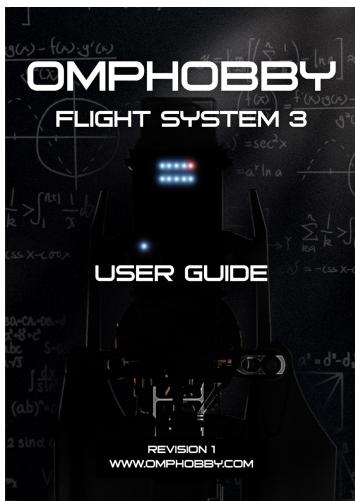
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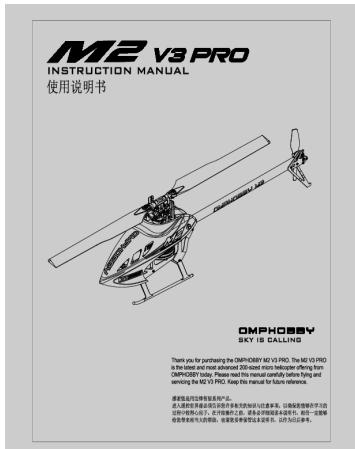
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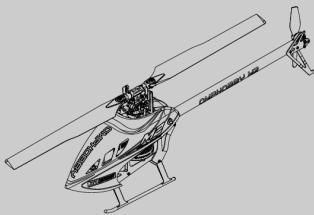


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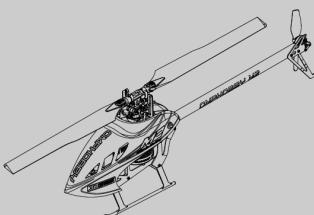
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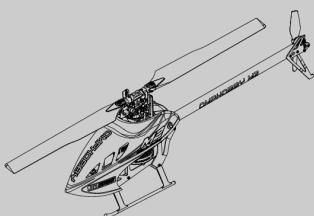
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