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OMPHOBBY M2 EVO MK2

OMPHOBBY M2 EVO MK2 RC Helicopter Instruction Manual

Model: M2 EVO MK2 (MK2 YELLOW RTF)

1. Introduction

Thank you for choosing the OMPHOBBY M2 EVO MK2 RC Helicopter. This advanced 6-channel remote control helicopter is engineered for high-performance 3D flight, featuring dual brushless motors and a direct-drive system. Designed for experienced users, the M2 EVO MK2 offers precision control, low noise operation, and easy maintenance. Please read this manual thoroughly before operating your helicopter to ensure safe and optimal performance.

Important Note: This RC helicopter is not a toy. It is intended for adults and individuals with experience in remote control helicopters. Inexperienced users must seek professional guidance for operation.

2. Safety Information

Always prioritize safety when operating your RC helicopter. Failure to follow these guidelines may result in injury or damage to the product.

- **Pre-Flight Check:** Before each flight, inspect the helicopter for any damage, loose parts, or obstructions. Ensure all connections are secure.
- **Flight Environment:** Fly in open areas, away from people, animals, buildings, power lines, and other obstacles. Avoid flying in strong winds or adverse weather conditions.
- **Battery Safety:** Use only the specified battery type. Do not overcharge or over-discharge batteries. Store batteries in a cool, dry place away from flammable materials. Disconnect the battery from the helicopter when not in use.
- **Propeller Safety:** Keep hands, face, and loose clothing away from rotating propellers. The blades can cause serious injury.
- **Supervision:** Always operate the helicopter under direct supervision, especially if you are new to the hobby.
- **Emergency Procedures:** Familiarize yourself with the emergency shutdown procedure for your remote control.

3. What's in the Box

Your OMPHOBBY M2 EVO MK2 RTF (Ready-To-Fly) package includes the following components:

- OMPHOBBY M2 EVO MK2 RC Helicopter (Yellow Mk2 variant)
- Remote Control Transmitter (Radiomaster Zorro style)
- 1 x Lithium Ion Helicopter Battery
- Small parts and accessories for setup (e.g., spare parts, tools)

Note: While labeled 'Ready-To-Fly', this kit typically does not include a charger for the helicopter battery or batteries for the remote control transmitter. These items must be purchased separately. Please refer to the specifications for required battery types for the transmitter.



Image: OMPHOBBY M2 EVO MK2 RC Helicopter and its accompanying remote control.



Image: Overview of the items included in the M2 EVO MK2 RTF package, showing the helicopter, remote, battery, and small accessory bags.

4. Setup

Follow these steps for the initial setup of your OMPHOBBY M2 EVO MK2 helicopter:

1. **Charge Helicopter Battery:** Fully charge the included Lithium Ion helicopter battery using a compatible LiPo charger (not included). Always follow the charger's instructions and safety precautions.

2. **Install Transmitter Batteries:** Insert the required batteries into the remote control transmitter (batteries not included). Refer to the transmitter's manual for specific battery type and installation.
3. **Binding (if necessary):** If your helicopter and transmitter are not pre-bound, follow the binding procedure outlined in the separate transmitter manual.
4. **Pre-Flight Inspection:** Before connecting the helicopter battery, perform a visual inspection. Ensure rotor blades are securely attached, landing gear is firm, and no wires are pinched.
5. **Connect Helicopter Battery:** With the transmitter powered on and throttle stick at its lowest position, carefully connect the charged battery to the helicopter. Wait for the helicopter to initialize (indicated by LED lights and sounds).
6. **Flight Control Parameter Adjustment (Optional):** The M2 EVO MK2 supports smartphone APP adjustment for flight control parameters. Download the OMPHOBBY app to fine-tune settings such as servo, collective, rate, pitch, roll, yaw, and gain. This allows for simplified flight setup and personalized control.



Image: The OMPHOBBY Flight System 3 module connected to a smartphone displaying the app interface for adjusting flight parameters.



Image: A detailed view of the OMPHOBBY Flight System 3, highlighting its various ports and indicators for simplified flight setup.

5. Operating Instructions

The OMPHOBBY M2 EVO MK2 offers versatile flight modes for different skill levels and flight styles.

Flight Modes:

The flight controller has three built-in flight modes:

- **Stabilizing Attitude Mode:** Ideal for beginners, providing self-leveling and stability assistance.
- **Soft 3D Mode:** Offers more agility than attitude mode, suitable for practicing basic aerobatics.
- **Aggressive 3D Mode:** Provides full control for advanced aerobatic maneuvers. In 3D mode, you can quickly switch back to attitude mode for recovery.

Basic Flight Controls:

Familiarize yourself with the transmitter controls before attempting flight. Practice throttle, collective, cyclic (pitch and roll), and rudder (yaw) movements.

- **Take-off:** Slowly increase throttle/collective until the helicopter lifts off smoothly.
- **Hovering:** Maintain a stable altitude and position by making small, precise adjustments to the controls.
- **Landing:** Slowly decrease throttle/collective while maintaining control, allowing the helicopter to descend gently.

Advanced Features:

- **Telemetry Support:** The system provides real-time flight data feedback to your compatible remote control, including battery voltage, current, RPM, and temperature.
- **High Performance and Compatibility:** The dual ESCs feature high-quality MOSFETs for lower internal resistance. The helicopter is compatible with various radio systems including FUTABA, Spektrum, JR, and FrSky, in addition to its official receiver.



Image: The OMPHOBBY M2 EVO MK2 helicopter in stable flight outdoors, showcasing its agility.



Image: A close-up of the remote control screen displaying real-time telemetry data such as battery voltage, current, and RPM.

6. Maintenance

Regular maintenance is crucial for the longevity and performance of your M2 EVO MK2 helicopter.

- **Cleaning:** After each flight, gently clean the helicopter to remove dirt, dust, or debris. Use a soft, dry cloth. Avoid using harsh chemicals.
- **Blade Inspection:** Check main and tail rotor blades for cracks, chips, or damage. Replace damaged blades immediately.
- **Screw and Fastener Check:** Periodically inspect all screws and fasteners for tightness. Vibrations during flight can cause them to loosen.
- **Lubrication:** Apply a small amount of appropriate lubricant to moving parts as recommended by OMPHOBBY (refer to detailed product diagrams or online resources if available).
- **Motor and ESC:** Ensure the dual brushless motors and ESCs are free from debris and not overheating.
- **Battery Care:** Store batteries at recommended storage voltage if not used for extended periods. Do not leave batteries fully charged or fully discharged.



Image: A view of the internal components of the M2 EVO MK2 helicopter, showing the motor, flight controller, and battery placement, important for maintenance checks.



Image: Close-up of the optimized swashplate geometry, a key mechanical component requiring periodic inspection for smooth operation.

7. Troubleshooting

This section addresses common issues you might encounter with your OMPHOBBY M2 EVO MK2 helicopter.

Problem	Possible Cause	Solution
Helicopter does not power on.	Battery not charged; Battery not connected; Damaged battery/wiring.	Ensure battery is fully charged and properly connected. Inspect wiring for damage.
No response from remote control.	Transmitter batteries low/dead; Not bound to helicopter; Transmitter off.	Replace/charge transmitter batteries. Perform binding procedure. Ensure transmitter is powered on.
Helicopter vibrates excessively.	Damaged/unbalanced blades; Loose screws; Motor/bearing issue.	Inspect and replace damaged blades. Tighten all screws. Check motors and bearings for smooth operation. The MK2 features improved vibration resistance, but issues can still occur.
Poor tail control performance.	Damaged tail rotor/motor; Loose tail boom; Incorrect settings.	Inspect tail rotor and motor. Ensure tail boom is secure. Check tail control settings in the app. The MK2 has optimized tail control performance.
Difficulty with 3D maneuvers.	Incorrect flight mode; Insufficient practice; Suboptimal flight control settings.	Ensure you are in Soft 3D or Aggressive 3D mode. Practice basic maneuvers. Adjust flight control parameters via the smartphone app.

8. Specifications

Feature	Detail
Brand	OMPHOBBY
Model	M2 EVO MK2
Item Model Number	MK2 YELLOW RTF
Item Weight	3.43 pounds
Package Dimensions	18.9 x 7.48 x 4.72 inches
Batteries	1 Lithium Ion battery required (included for helicopter)
Motor Type	Dual Brushless Motors, Direct-Drive

Feature	Detail
Channels	6CH
Flight Control System	OMPHOBBY Flight System 3 (OFS3) with Smartphone APP adjustment
Compatibility	Compatible with FUTABA, Spektrum, JR, FrSky, etc. most radios on the market.

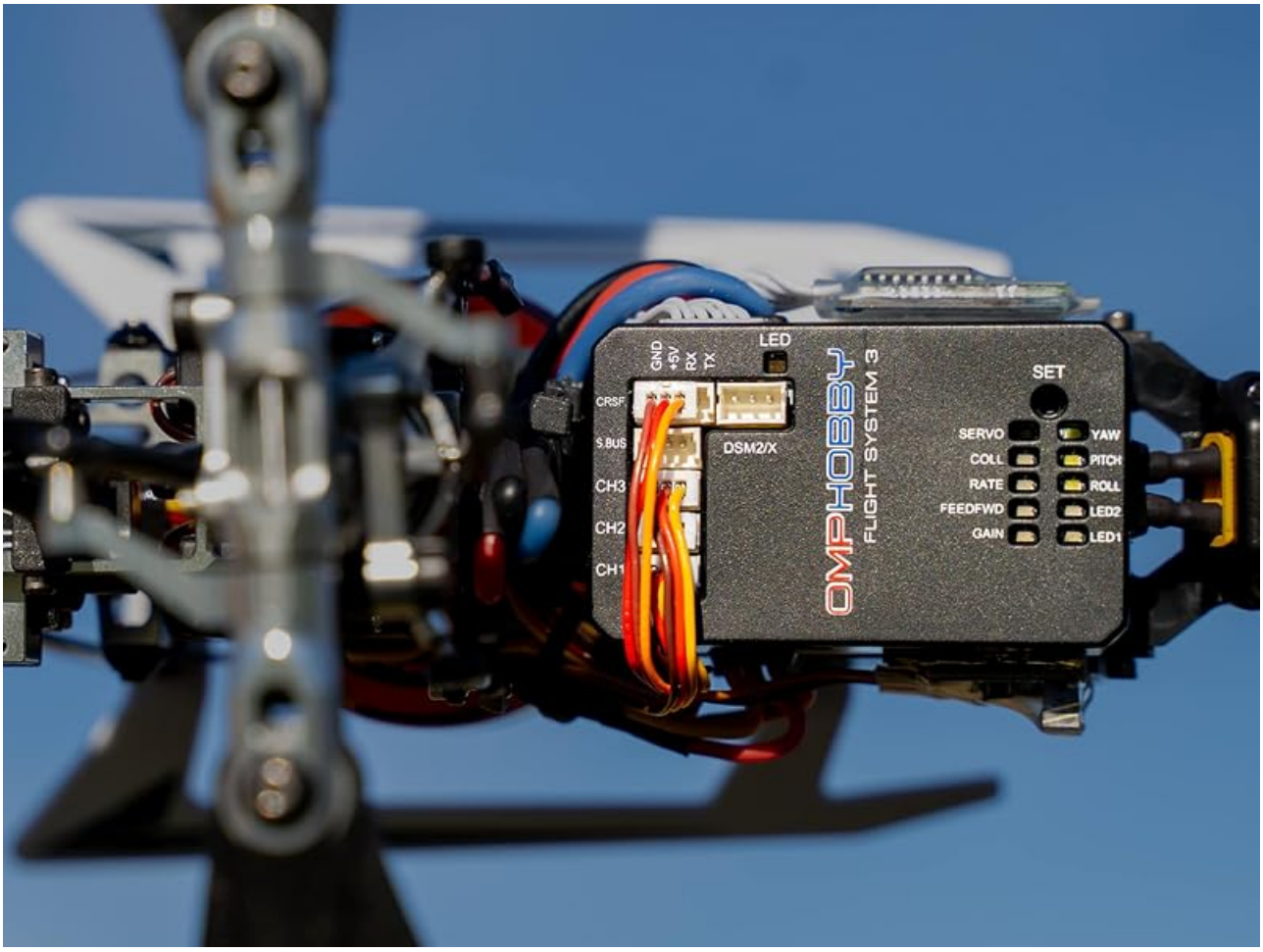


Image: Technical drawing showing the key dimensions of the OMPHOBBY M2 EVO MK2 helicopter.

9. Warranty and Support

For warranty information and technical support, please refer to the official OMPHOBBY website or contact their customer service directly. Keep your proof of purchase for any warranty claims.

OMPHOBBY Official Store: Visit the OMPHOBBY Store on Amazon

Protection Plans: Extended protection plans may be available for purchase separately. Check product listing for details.

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