

OMPHOBBY M2 EVO MK2

OMPHOBBY M2 EVO MK2 RC Helicopter Instruction Manual

Your comprehensive guide to setup, operation, and maintenance.

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1. SAFETY INFORMATION

WARNING: This RC model helicopter is not a toy. It is designed for adults and experienced users. Inexperienced users must operate under professional guidance.

- Always operate in open, clear areas away from people, animals, and obstacles.
- Ensure all batteries (helicopter and remote control) are fully charged before flight.
- Never attempt to fly in strong winds or adverse weather conditions.
- Regularly inspect the helicopter for any damage or loose parts before and after each flight.
- Keep hands and face clear of rotating blades.
- Follow all local regulations and laws regarding RC aircraft operation.

2. PRODUCT OVERVIEW

The OMPHOBBY M2 EVO MK2 is a high-performance 6-channel remote control helicopter designed for advanced users. It features dual brushless motors, direct drive, and advanced flight control systems for precise 3D flight.

Key Features:

- **Smartphone APP Adjustable Flight Controller:** Fine-tune flight parameters via a dedicated app.

- **Telemetry Support:** Monitor real-time flight data.
- **Dual Brushless Motors Direct Drive:** Ensures powerful and efficient performance.
- **High-Performance 3D Flight:** Capable of aggressive aerobatics.
- **Optimized Swashplate Geometry & Improved Tail Control:** Enhances flight precision and stability.
- **Three Flight Modes:** Stabilizing attitude, soft 3D, and aggressive 3D.
- **Compatibility:** Supports FUTABA, Spektrum, JR, FrSky, and other radios.

Components:

The package includes the OMPHOBBY M2 EVO MK2 helicopter, a remote control (RTF version), and a Lithium Ion battery. Note that the remote control may require separate batteries (e.g., 18350 Li-ion for RadioMaster Zorro, not included).

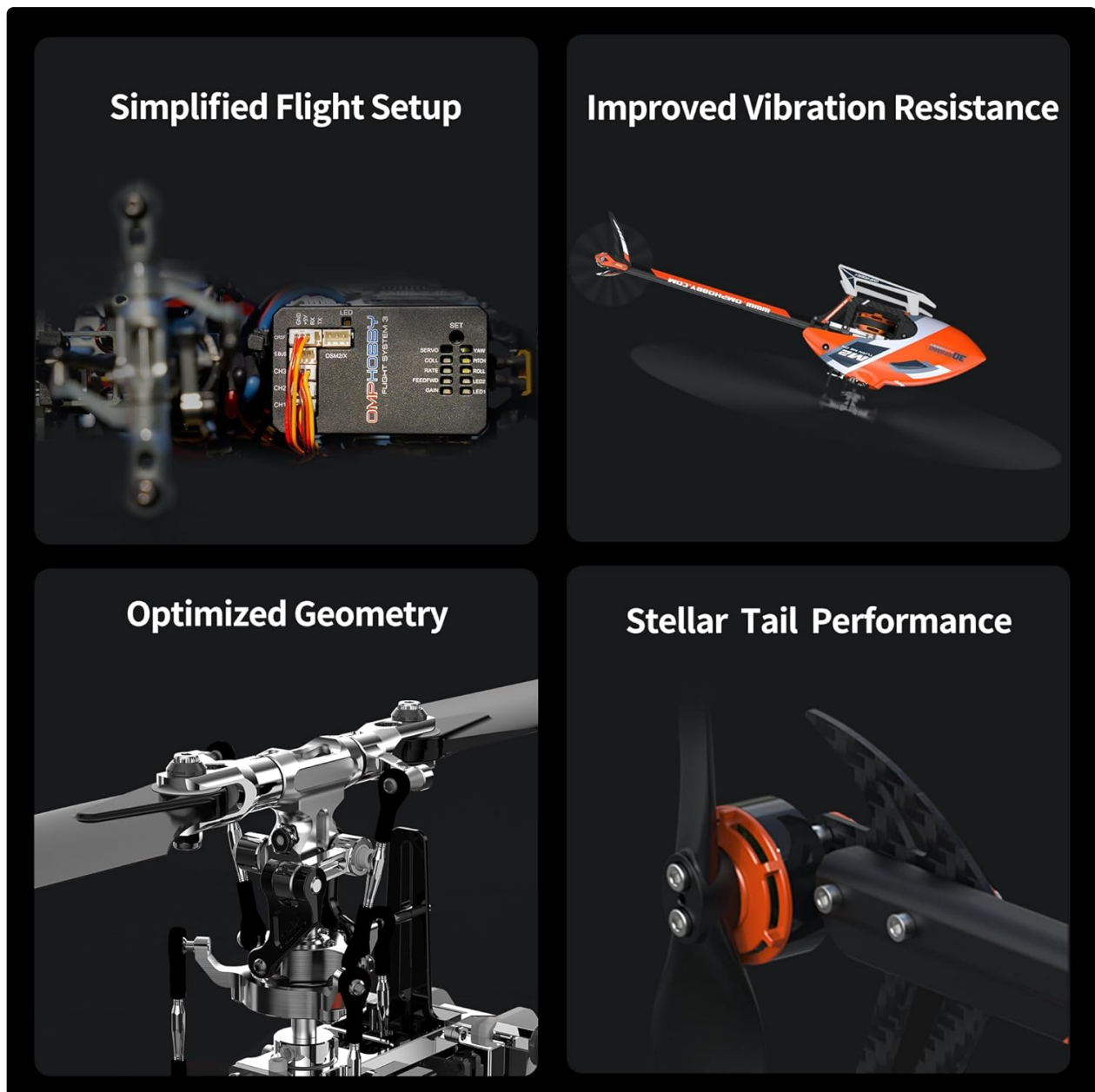


Figure 1: OMPHOBBY M2 EVO MK2 RC Helicopter (Red) with its remote control.

3. SETUP GUIDE

3.1. Charging the Helicopter Battery

1. Connect the included Lithium Ion battery to a compatible charger (charger not included).
2. Ensure the battery is fully charged before its first flight. Refer to your charger's instructions for proper charging procedures.
3. Never leave charging batteries unattended.

3.2. Installing Remote Control Batteries

1. Open the battery compartment on the back of your remote control.
2. Insert the required batteries (e.g., 18350 Li-ion for RadioMaster Zorro, or AAA for other models) ensuring correct polarity. Note: Remote control batteries are often sold separately.
3. Close the battery compartment securely.

3.3. Binding the Remote Control

If your helicopter and remote control are not pre-bound (Ready-To-Fly version), follow these steps:

1. Turn on the remote control.
2. Power on the helicopter.
3. Refer to your specific remote control and helicopter manual for detailed binding instructions. Binding procedures vary by radio type (FUTABA, Spektrum, JR, FrSky, etc.).
4. Once bound, the helicopter's indicator light will typically show a solid color, indicating a successful connection.



Figure 2: Simplified flight setup showing the internal components of the helicopter.

4. OPERATING INSTRUCTIONS

4.1. Pre-Flight Checks

- Ensure all blades are securely attached and free from damage.
- Verify the helicopter battery is fully charged.
- Confirm the remote control batteries are installed and the remote is powered on and bound to the helicopter.
- Perform a range check to ensure proper signal strength.

4.2. Flight Modes

The M2 EVO MK2 features three distinct flight modes:

1. **Stabilizing Attitude Mode:** Ideal for beginners, offering enhanced stability and self-leveling.
2. **Soft 3D Mode:** Provides more agility for basic aerobatics while maintaining some stability.

3. **Aggressive 3D Mode:** Full control for advanced aerobatics and experienced pilots.

Switch between modes using the designated button on your remote control. In 3D modes, you can quickly switch back to attitude mode for recovery.

4.3. Takeoff and Landing

- **Takeoff:** Place the helicopter on a flat, level surface. Slowly increase throttle until the helicopter lifts off smoothly.
- **Landing:** Gently reduce throttle while maintaining control. Aim for a soft, controlled descent.

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Video 1: OMPHOBBY M2 V3 PRO RC Helicopter in flight, demonstrating advanced maneuvers and stability. While this video features the M2 V3 PRO, many of the flight characteristics and features are similar to the M2 EVO MK2.



The image shows the OMP HOBBY Flight System 3 receiver on the left, a black unit with various ports and a blue LED. To its right is a smartphone displaying the OMPHOBBY app interface, which includes sliders for motor rates, gyro rates, and other settings. Below these images is a black banner with white text.

With the OMPHOBBY smartphone app, tuning OFS3 is a breeze!

Rewritten from the Ground Up



The image shows a smartphone screen displaying the 'Expert Setting' menu of the OMPHOBBY app. It features various sliders and toggle switches for configuring the receiver's performance.

Telemetry Support

EDGE TX	TPWR	TRSS	TQly	RSNR	Signal	Date/Time
50	-31	100	9			29 Nov 12:37
RxBt	11.1V	RxBt	10.6V			
Curr	6.3A	Curr+	19.5A			
NR	4369rpm	NR+	5872rpm			
Capa	181mAh	Tmp	36°C			

The image shows a smartphone screen displaying the 'Telemetry Support' interface. It features a grid of telemetry data including battery voltage, current, RPM, and temperature, along with signal strength and date/time.

Figure 3: OMPHOBBY M2 EVO MK2 RC Helicopter performing an outdoor flight.

5. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the helicopter after each use. Avoid water or harsh chemicals.

- **Blade Inspection:** Regularly check main and tail rotor blades for cracks, chips, or bends. Replace damaged blades immediately.
- **Motor & Gear Inspection:** Ensure motors are free from debris and gears are not stripped.
- **Battery Care:** Store batteries in a cool, dry place. Do not overcharge or over-discharge.
- **Storage:** Store the helicopter in a safe place, away from direct sunlight and extreme temperatures.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Helicopter does not respond to remote control.	Not bound, low remote battery, helicopter not powered on.	Ensure helicopter and remote are powered on. Check remote batteries and replace if low. Re-bind the remote control if necessary (refer to Section 3.3).
Helicopter flies erratically or is unstable.	Damaged blades, incorrect flight mode, strong wind.	Inspect and replace damaged blades. Switch to Stabilizing Attitude Mode. Avoid flying in windy conditions.
Short flight time.	Battery not fully charged, old battery, aggressive flying style.	Ensure battery is fully charged. Consider replacing old batteries. Adjust flying style to be less aggressive.
Tail control issues.	Damaged tail rotor, loose tail boom.	Inspect and replace damaged tail rotor. Check for loose connections or damage to the tail boom.

7. SPECIFICATIONS

- **Brand:** OMPHOBBY
- **Model Name:** M2 EVO MK2
- **Age Range:** Adult (14 years and up recommended)
- **Color:** MK2 red (variant shown)
- **Connectivity Technology:** Bluetooth, Wi-Fi
- **Skill Level:** Professional
- **Battery Capacity:** 750 Milliamp Hours (Lithium Ion, included)
- **Control Type:** Remote Control (included)
- **Material:** Aluminum
- **Item Weight:** 3.41 pounds
- **Package Dimensions:** 27.28 x 7.48 x 4.69 inches

8. WARRANTY & SUPPORT

For warranty information, technical support, or to purchase replacement parts, please visit the official OMPHOBBY website or contact their customer service. Keep your proof of purchase for warranty claims.
OMPHOBBY Official Store: [Visit OMPHOBBY Store on Amazon](#)

