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## OMPHOBBY M1

# OMPHOBBY M1 V1 RC Helicopter Instruction Manual

Model: M1 V1

## 1. INTRODUCTION

This manual provides essential information for the safe and effective operation, maintenance, and setup of your OMPHOBBY M1 V1 RC Helicopter. The M1 V1 is a high-performance 3D remote control helicopter designed for experienced hobbyists. It features dual brushless motors and is compatible with SFHSS, DSM, and S-BUS protocols, allowing integration with various existing transmitters. Please read this manual thoroughly before operating the helicopter.



## 2. SAFETY GUIDELINES

Operating an RC helicopter requires caution and adherence to safety protocols. Failure to follow these guidelines may result in injury or damage to property.

- **Read the Manual:** Familiarize yourself with all instructions and warnings before use.
- **Age Recommendation:** This product is recommended for users aged 16 years and up. It is not a toy.
- **Operating Environment:** Always operate in open, clear areas, away from people, animals, buildings, and power lines. Avoid flying near water or in adverse weather conditions (strong winds, rain).
- **Pre-Flight Check:** Before each flight, inspect the helicopter for any damage, loose parts, or obstructions. Ensure all components are securely fastened.
- **Battery Safety:** Use only the specified battery and charger. Do not overcharge or discharge batteries. Store batteries in a safe, cool place away from flammable materials. Disconnect the battery immediately after use.
- **Rotor Blades:** Keep hands, face, and loose clothing away from rotating blades. Blades can cause severe injury.
- **Transmitter Control:** Always turn on your transmitter first, then connect the helicopter battery. When finished, disconnect the helicopter battery first, then turn off the transmitter.
- **Respect Local Regulations:** Be aware of and comply with all local laws and regulations regarding RC aircraft operation.

## 3. WHAT'S IN THE BOX

The OMPHOBBY M1 V1 package includes the following components:

- OMPHOBBY M1 V1 Helicopter
- EEP Box (packaging)
- Screwdriver
- Charger Cable
- Servo Horns
- Several Spare Screws
- Wrench
- 1 Lithium Ion Battery (included)



Image 3.1: Close-up view of the OMPHOBBY M1 V1's precision rotor head assembly.

## 4. SETUP

### 4.1. Battery Charging

1. Connect the provided charger cable to a suitable USB power source.
2. Connect the helicopter's Lithium Ion battery to the charger cable.
3. Monitor the charging process. Disconnect the battery once fully charged to prevent overcharging.

### 4.2. Transmitter Binding

The OMPHOBBY M1 V1 is a Bind-N-Fly (BNF) model, meaning it does not include a transmitter. It is compatible with SFHSS, DSM, and S-BUS protocols. The helicopter includes an OSHM2055 SFHSS satellite receiver for plug-and-play compatibility.

1. Ensure your compatible transmitter (e.g., SFHSS, DSMX, S-BUS) is powered off.
2. Refer to your transmitter's instruction manual for specific binding procedures.
3. Power on the helicopter while holding the bind button (if applicable) or following the specific sequence for your receiver type.
4. Initiate the binding process on your transmitter.
5. Once bound, the receiver's indicator light will confirm a successful connection.

### 4.3. Pre-Flight Checks

- Verify that the main rotor blades and tail rotor are securely attached and free from damage.

- Check that all servo linkages move freely and are correctly connected.
- Ensure the flight battery is fully charged and securely installed in the helicopter.
- Confirm that the transmitter and helicopter are successfully bound and responding correctly to control inputs.



Image 4.1: Internal electronics and flight controller board of the OMPHOBBY M1 V1.

## 5. OPERATING THE OMPHOBBY M1 V1

### 5.1. Flight Modes

The M1 V1 comes pre-configured with multiple flight modes to suit different skill levels and flight styles:

- **Stabilized Mode:** Ideal for beginners and training, providing enhanced stability and self-leveling characteristics.
- **Soft 3D Mode:** Offers increased agility for basic aerobatics while maintaining some stability.
- **Violet 3D Mode:** Provides full 3D capability for advanced maneuvers, flips, rolls, and inverted flights, with no restrictions on rotor speeds or pitch angles.

Refer to your transmitter's manual for instructions on how to switch between these flight modes.

### 5.2. Basic Controls

- **Throttle:** Controls the main rotor speed and collective pitch, affecting altitude.
- **Aileron (Roll):** Tilts the helicopter left or right.
- **Elevator (Pitch):** Tilts the helicopter forward or backward.
- **Rudder (Yaw):** Controls the tail rotor, rotating the helicopter left or right on its vertical axis.

The M1 V1 features an enhanced R11-2 tail motor, delivering 20% more torque for precise and stable tail control during aggressive maneuvers.

### 5.3. Take-off and Landing

1. **Take-off:** Place the helicopter on a flat, level surface. Slowly increase throttle until the helicopter lifts off smoothly. Maintain a stable hover at a safe altitude.
2. **Landing:** Slowly decrease throttle while maintaining control over pitch and roll. Aim for a gentle descent onto a clear landing spot. Once on the ground, reduce throttle completely.

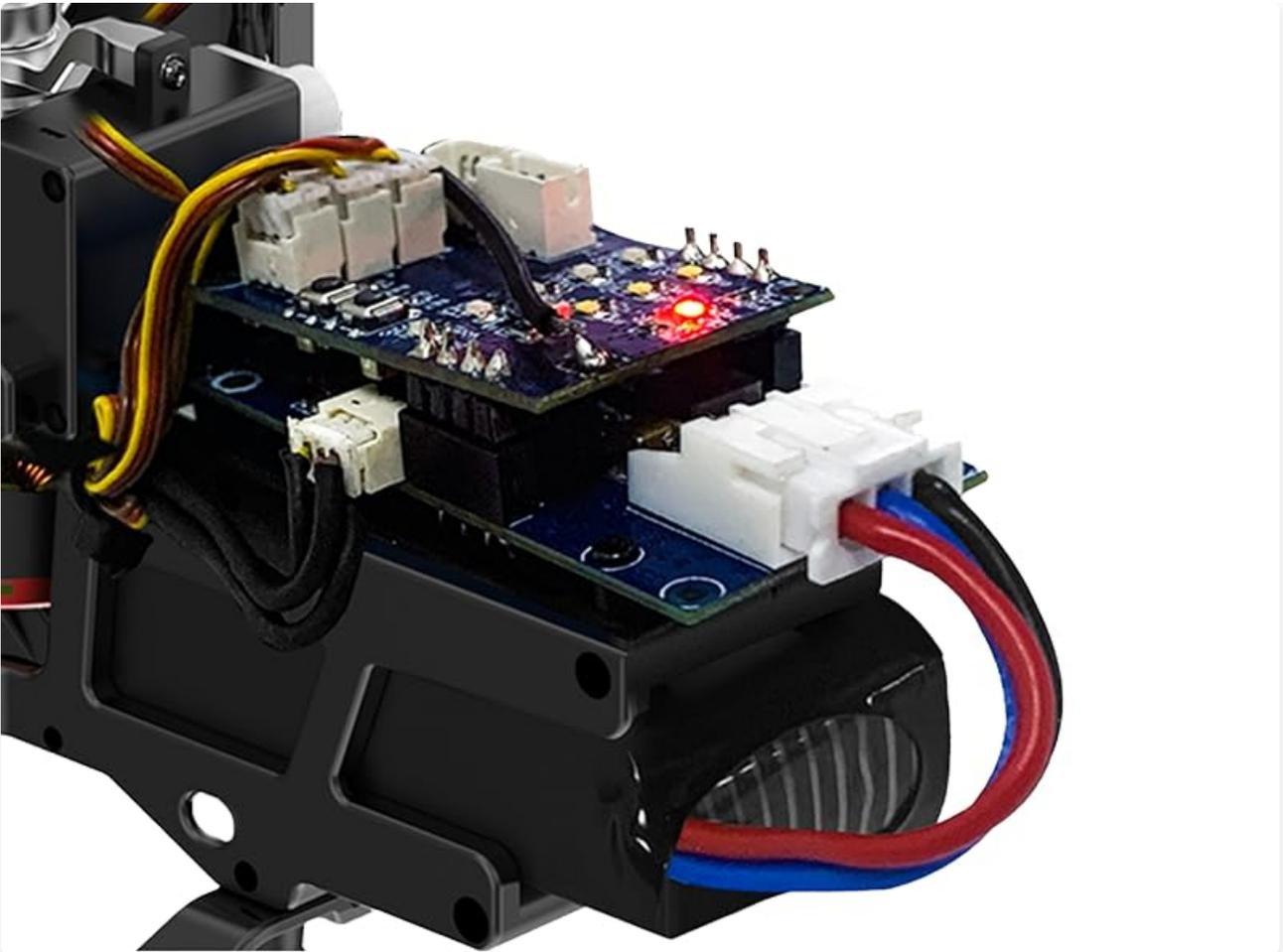


Image 5.1: OMPHOBBY M1 V1 RC Helicopter in flight over a grassy field.

## 6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your OMPHOBBY M1 V1 helicopter.

- **Post-Flight Inspection:** After each flight, check for any signs of damage, loose screws, or worn parts. Pay close attention to the main rotor head, tail rotor, and landing gear.
- **Cleaning:** Gently clean the helicopter with a soft, dry cloth. Avoid using harsh chemicals or solvents.
- **Part Replacement:** The M1 V1 features a durable injection-molded frame and modular parts, making repairs and part replacements straightforward. Refer to the OMPHOBBY website or authorized dealers for genuine replacement parts.
- **Battery Care:** Store batteries at a storage voltage (typically 3.8V per cell) if not used for extended periods. Do not store fully charged or fully discharged.



Image 6.1: Detail of the OMPHOBBY M1 V1's tail rotor and motor assembly.

## 7. TROUBLESHOOTING

This section addresses common issues you might encounter with your OMPHOBBY M1 V1.

Problem	Possible Cause	Solution
Helicopter does not bind to transmitter.	Incorrect binding procedure; incompatible protocol; transmitter too far/close.	Review Section 4.2 for binding steps. Ensure your transmitter supports SFHSS, DSMX, or S-BUS. Try binding at a closer distance.
Unstable flight or drifting.	Damaged rotor blades; incorrect trim settings; environmental factors (wind).	Inspect rotor blades for damage and replace if necessary. Adjust trim settings on your transmitter. Fly in calmer conditions. Check for loose components.
Loss of power during flight.	Low battery charge; damaged battery; motor issue.	Ensure battery is fully charged before flight. Inspect battery for swelling or damage. If issue persists, contact support for motor inspection.
Tail rotor not holding position.	Tail motor issue; tail rotor damage; flight controller settings.	Check tail rotor for damage and replace if needed. Ensure tail motor wires are secure. Verify flight controller settings for tail gain.

## 8. SPECIFICATIONS

Key technical specifications for the OMPHOBBY M1 V1 RC Helicopter:

- **Product Dimensions:** 5 x 3 x 13 inches
- **Item Weight:** 10.6 ounces
- **Manufacturer Recommended Age:** 16 years and up
- **Batteries:** 1 Lithium Ion battery required (included)
- **Model Number:** M1

- **Compatibility:** SFHSS, DSMX, S-BUS protocols
- **Motors:** Dual Brushless Motors (Main and Tail)



Image 8.1: Diagram illustrating the dimensions of the OMPHOBBY M1 V1 RC Helicopter.

## 9. WARRANTY AND SUPPORT

### 9.1. Warranty Information

For detailed warranty information regarding your OMPHOBBY M1 V1 RC Helicopter, please refer to the official OMPHOBBY website or contact their customer service directly. Warranty terms and conditions may vary by region and purchase location.

### 9.2. Customer Support

If you encounter any issues not covered in this manual or require further assistance, please contact OMPHOBBY customer support. You can typically find contact information on the official OMPHOBBY website or through your retailer.

Manufacturer: OMPHOBBY

For additional resources and product information, visit the [OMPHOBBY Store on Amazon](#).