

WOWOBONTOY MD500 F119S

WOWOBONTOY YU XIANG MD500 F119S RC Helicopter Instruction Manual

Your guide to operating and maintaining your 1/16 Scale YU XIANG MD500 250-Class RC Helicopter.

1. SAFETY INFORMATION

Please read all safety instructions carefully before operating the helicopter to ensure safe use and prevent damage.

- Always operate the helicopter in an open area, away from people, animals, buildings, and power lines.
- Ensure the battery is fully charged before each flight.
- Do not fly in strong winds or adverse weather conditions.
- Keep fingers and loose clothing away from rotating blades.
- Supervision by an adult is recommended for users under 12 years of age.
- Turn off the helicopter and remote control when not in use.

2. PACKAGE CONTENTS

Verify that all items are present in your package:

- 1x YU XIANG MD500 F119S Aircraft
- 1x Instruction Manual
- 1x Dedicated Balance Charger
- 5x Main Propeller Blades (Spares included)
- 1x Tail Propeller Blade (Spare included)
- 1x LI-POLY 11.1V (3500mAh) Smart Battery

- 1x 2.4G Smart Color Screen Remote Controller



Image: The YU XIANG MD500 F119S RC Helicopter and its protective carrying case.

3. SETUP

3.1 Battery Installation and Charging

1. Carefully open the battery compartment on the helicopter.
2. Insert the LI-POLY 11.1V (3500mAh) Smart Battery, ensuring correct polarity.
3. Close the battery compartment securely.
4. To charge, connect the battery to the dedicated balance charger. Plug the charger into a power source. The charging indicator will show the charging status. Charging time is approximately 60 minutes.

3.2 Remote Control Preparation

1. Install the required batteries (not included) into the 2.4G Smart Color Screen Remote Controller.
2. Turn on the remote controller.

3.3 Pairing the Helicopter and Remote Control

1. Place the helicopter on a flat, stable surface.

2. Turn on the helicopter's power switch. The indicator lights will begin to flash.
3. Within 10 seconds, turn on the remote control.
4. Move the throttle stick (left stick) all the way up, then all the way down.
5. The helicopter's indicator lights will become solid, indicating successful pairing.

4. OPERATING

4.1 Basic Flight Controls

Familiarize yourself with the remote control's functions:

- **Throttle (Left Stick Up/Down):** Controls altitude.
- **Yaw (Left Stick Left/Right):** Rotates the helicopter left or right.
- **Pitch (Right Stick Up/Down):** Moves the helicopter forward or backward.
- **Roll (Right Stick Left/Right):** Tilts the helicopter left or right for sideways movement.
- **One-Key Takeoff/Landing:** Press the designated button for automated takeoff or landing.

4.2 Advanced Flight Modes (6G/3D Switchable)

The MD500 F119S offers versatile flight modes:

- **6G (Self-Stabilizing) Mode:** Ideal for beginners, providing stable flight with automatic leveling. The helicopter maintains a horizontal attitude automatically.
- **3D (Acrobatic) Mode:** For experienced pilots, allowing for advanced maneuvers and inverted flight. This mode disables automatic leveling for full control.
- Switch between modes using the dedicated button on the remote control.

4.3 GPS and Optical Flow Positioning

This helicopter features advanced positioning systems for enhanced stability and functionality:

- **GPS Positioning:** Provides accurate outdoor positioning, enabling features like auto-return to home, waypoint flight, and precise hovering. Ensure a clear GPS signal before activating these functions.
- **Optical Flow Positioning:** Assists with stable hovering in indoor environments or where GPS signals are weak, by analyzing ground patterns.



Image: The YU XIANG MD500 F119S RC Helicopter demonstrating stable flight.

4.4 Flight Demonstration Video

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Video: A demonstration of the YU XIANG MD500 F119S RC Helicopter's flight capabilities, including takeoff, hovering, and maneuvers.

5. MAINTENANCE

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

- After each flight, inspect the main and tail rotor blades for any damage or cracks. Replace damaged blades immediately.
- Check all screws and connections to ensure they are tight.
- Clean the helicopter body with a soft, dry cloth. Avoid using water or chemical cleaners.
- Store the helicopter and battery in a cool, dry place, away from direct sunlight and extreme temperatures.
- Do not overcharge or over-discharge the battery. Follow charging instructions carefully.

6. TROUBLESHOOTING

Refer to the table below for common issues and their solutions:

Problem	Possible Cause	Solution
Helicopter does not respond to remote control.	Not paired; low battery in helicopter or remote.	Re-pair the helicopter and remote; charge/replace batteries.
Helicopter flies erratically or is unstable.	Damaged blades; strong wind; incorrect calibration.	Inspect/replace blades; fly in calm conditions; recalibrate as per manual.
Short flight time.	Battery not fully charged; aging battery.	Ensure full charge; consider replacing the battery if it's old.
GPS functions not working.	Weak GPS signal; indoor environment.	Operate outdoors with a clear sky; wait for sufficient satellite lock.

7. SPECIFICATIONS

Detailed technical specifications for the YU XIANG MD500 F119S RC Helicopter:

Feature	Detail
Model Name	YU XIANG MD500 (F119S)
Scale	1/16
Material	High-Strength Composite Engineering Material
Rotor Diameter	430mm
Drive Motor	4306 560KV Brushless Motor
Tail Lock Motor	1304 4400KV Brushless Motor
Remote Controller	2.4G Smart Color Screen (9-Channel)
Remote Distance	>350m
Body Battery	LI-POLY 11.1V (3500mAh) Smart Battery, 25C
Charging Time	Approx. 60 minutes
Usage Time	15-18 minutes
Product Weight	2650g (5.84 lbs)
Product Dimensions	48.5 x 43 x 19.06 cm (19.09 x 16.93 x 7.5 inches)
Recommended Age	12 years and up

8. WARRANTY AND SUPPORT

For warranty information, technical support, or replacement parts, please contact WOWOBONTOY customer service or refer to the official product page.

- Keep your purchase receipt as proof of purchase for warranty claims.
- For additional resources and product information, visit the [WOWOBONTOY Store](#).