

## MINDKEEPS F06

# MINDKEEPS YU Xiang F06 EC-135 RC Helicopter User Manual

Model: F06 (EC-135 Replica)

## 1. INTRODUCTION

Thank you for choosing the MINDKEEPS YU Xiang F06 EC-135 RC Helicopter. This manual provides essential information for the safe operation, assembly, and maintenance of your new remote-controlled helicopter. Please read this manual thoroughly before operating the aircraft to ensure proper function and to prevent damage or injury.

The F06 EC-135 is a 1:36 scale replica featuring brushless motors, a 6-axis gyroscope, and 3D/6G dual flight modes for enhanced stability and control. It is designed for users aged 15 and above.

### Safety Precautions

- Always operate the helicopter in open areas, away from people, animals, and obstacles.
- Ensure the battery is fully charged before each flight.
- Do not operate in strong winds or adverse weather conditions.
- Keep hands and face clear of rotating blades.
- Supervise children and beginners during operation.
- Turn off the helicopter and remote control when not in use.



Figure 1: The MINDKEEPS YU Xiang F06 EC-135 RC Helicopter and its retail packaging.

## 2. PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- Aircraft (F06 EC-135 RC Helicopter) x 1
- Instruction Manual x 1
- Dedicated USB Charger x 1
- Main Blade x 4 (2 installed, 2 spares)
- Tail Blade x 1 (spare)
- Intelligent Battery (LI-POLY 7.4V 1200MAH 25C) x 1



Figure 2: The F06 EC-135 helicopter shown alongside its packaging, indicating the contents.

### 3. SPECIFICATIONS

Feature	Detail
Material	High Pressure Thermoplastic Technology, Nylon/Carbon Fiber Reinforced
Rotor Diameter	330mm
Fuselage Length	350mm
Height	120mm
Aircraft Weight	278g
Drive Motor	2507 1300KV Brushless Motor

Lock Tail Motor	1204 7000KV Brushless Motor
Steering Gear	4.3g Metal Digital Steering Gear
Remote Control	2.4G RC
RC Distance	>120m
Battery	LI-POLY Smart Battery 7.4V (1200MAH) 25C
Charger	USB
Charging Time	Approximately 70 minutes
Using Time	8-10 minutes
Recommended Age	15 years and up



Figure 3: The F06 EC-135 helicopter on a digital scale, indicating its weight of 278 grams.

## 4. SETUP

### 4.1 Battery Charging

1. Connect the dedicated USB charger to a USB power source (e.g., computer USB port, USB wall adapter).
2. Connect the intelligent battery to the USB charger.
3. The charger's indicator light will show the charging status. Refer to the charger's specific instructions for light

indications (typically red for charging, green for fully charged).

4. Charging time is approximately 70 minutes. Do not overcharge the battery.

## 4.2 Battery Installation

1. Ensure the helicopter is powered off.
2. Locate the battery compartment on the helicopter.
3. Carefully insert the charged intelligent battery into the compartment, ensuring the connectors align.
4. Connect the battery to the helicopter's power port.
5. Secure the battery compartment cover.

## 4.3 Remote Control Preparation

1. Install the required batteries (not included) into the remote control. Refer to the remote control's manual for battery type and installation.
2. Turn on the remote control.

## 4.4 Pairing the Helicopter and Remote Control

1. Place the helicopter on a flat, level surface.
2. Power on the helicopter. The indicator lights on the helicopter will flash.
3. Power on the remote control.
4. Move the throttle stick (left stick) all the way up, then all the way down.
5. The indicator lights on the helicopter will become solid, indicating successful pairing.

# 5. OPERATING INSTRUCTIONS

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## 5.1 Basic Controls

The 2.4G RC remote control typically features the following functions:

- **Throttle (Left Stick Up/Down):** Controls the helicopter's altitude.
- **Rudder (Left Stick Left/Right):** Controls the helicopter's rotation around its vertical axis (yaw).
- **Elevator (Right Stick Up/Down):** Controls forward and backward movement (pitch).
- **Aileron (Right Stick Left/Right):** Controls sideways movement (roll).
- **3D/6G Mode Switch:** Toggles between flight modes.

## 5.2 Flight Modes (3D/6G Dual Mode)

- **6G (Self-Stabilizing) Mode:** Ideal for beginners. The 6-axis gyroscope and optical flow positioning system provide enhanced stability, automatically correcting the helicopter's attitude to maintain level flight. This mode simplifies control, making it easier to learn.
- **3D (Acrobatic) Mode:** For experienced pilots. This mode allows for advanced maneuvers and inverted flight, offering full control without automatic stabilization. Switch to this mode only after mastering 6G mode.



Figure 4: The F06 EC-135 helicopter illustrating its optical flow positioning system for stable flight.

### 5.3 First Flight Tips

1. Choose an open, calm environment with no wind.
2. Start in 6G mode for maximum stability.
3. Gently increase the throttle to lift off slowly. Practice hovering at a low altitude.
4. Make small, precise control inputs. Avoid sudden movements.
5. If you lose control, immediately reduce the throttle to zero to prevent damage.
6. Practice basic maneuvers like hovering, forward/backward flight, and turning before attempting advanced operations.



Figure 5: The F06 EC-135 helicopter in stable flight, showcasing its design and operational capabilities.

## 6. MAINTENANCE

### 6.1 Cleaning

- After each flight, gently wipe the helicopter with a soft, dry cloth to remove dust and debris.
- Do not use water or chemical cleaners, as they may damage electronic components.

### 6.2 Storage

- Store the helicopter and remote control in a cool, dry place, away from direct sunlight and extreme temperatures.
- Remove batteries from the remote control if storing for extended periods.
- Store the intelligent flight battery with a partial charge (around 50%) if not used for a long time to prolong its lifespan.

### 6.3 Blade Replacement

- If main or tail blades become damaged, replace them with the provided spare parts.

- Ensure the new blades are installed correctly and securely before flying.

## 7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Helicopter does not power on.	Battery not charged or not connected properly.	Ensure battery is fully charged and correctly connected.
Helicopter does not respond to remote control.	Not paired, remote control batteries low, or out of range.	Re-pair the helicopter and remote control. Replace remote control batteries. Ensure you are within the operating range (>120m).
Unstable flight or drifts.	Not calibrated, damaged blades, or strong wind.	Ensure helicopter is placed on a level surface for power-on calibration. Check blades for damage and replace if necessary. Avoid flying in windy conditions.
Short flight time.	Battery not fully charged or aging battery.	Ensure battery is fully charged. Consider replacing the battery if it's old and capacity has degraded.

## 8. WARRANTY AND SUPPORT

For warranty information, technical support, or replacement parts, please contact the seller or manufacturer directly. Retain your proof of purchase for any warranty claims.

Manufacturer: MINDKEEPS

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