

## Meiurlex C138 Pro

# Meiurlex RC ERA C138 Pro Bell 206 RC Helicopter User Manual

## 1. INTRODUCTION

This manual provides detailed instructions for the safe operation, setup, and maintenance of your Meiurlex RC ERA C138 Pro Bell 206 RC Helicopter. Please read this manual thoroughly before operating the aircraft to ensure proper function and to prevent damage or injury.

The RC ERA C138 Pro is a 1/33 scale 6-channel flybarless brushless RC helicopter designed for enthusiasts. It features optical flow positioning, altitude hold, and a robust brushless motor for stable and responsive flight. Its realistic Bell 206 design offers an immersive flying experience.

**Safety Warning: This product is not a toy. It is intended for adults aged 15 years and older. Always operate in open outdoor areas, away from crowds, and ensure wind conditions are below level 5. Failure to follow safety guidelines may result in serious injury or property damage.**

## 2. PACKAGE CONTENTS

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

- 1 x RC ERA C138 Pro Helicopter
- 1 x Remote Control
- 1 x USB Charging Cable
- 2 x Main Blades (Spare)
- 1 x Tail Blade (Spare)
- 1 x Lithium-Ion Battery (Quantity may vary based on purchase: 1, 2, 3, or 4 batteries)
- 1 x Screwdriver
- 1 x Hex Wrench
- 1 x User Manual (This document)

## 3. SETUP

### 3.1. Battery Charging

Before first use, fully charge the helicopter's lithium-ion battery. Connect the battery to the provided USB charging cable and plug the cable into a suitable USB power source (e.g., computer USB port, USB wall adapter). The charging time is approximately 50 minutes.

### 3.2. Remote Control Preparation

Install the required batteries (not included) into the remote control. Refer to the remote control's battery compartment for correct polarity. Ensure the remote control is powered off before proceeding.

### 3.3. Initial Pairing

1. Place the helicopter on a flat, level surface.
2. Turn on the helicopter's power switch. The indicator lights will flash.
3. Turn on the remote control. Move the throttle stick (left stick) fully up, then fully down. The remote control will emit a beep, and the helicopter's indicator lights will become solid, indicating successful pairing.
4. Ensure all controls are centered before attempting flight.

## 4. OPERATING INSTRUCTIONS

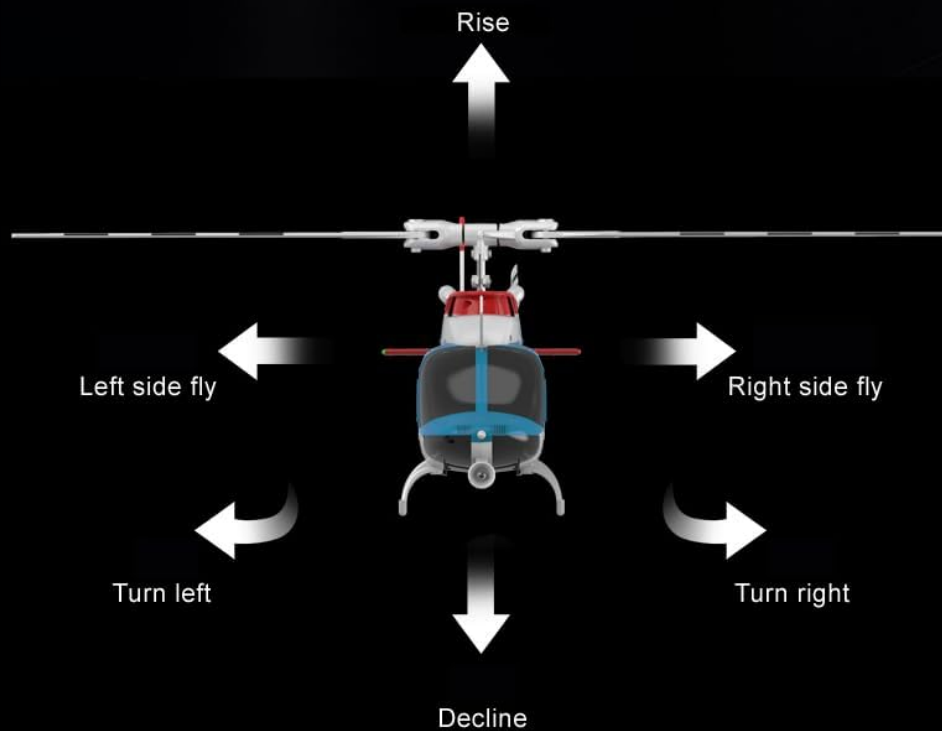
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The RC ERA C138 Pro offers a stable and responsive flight experience with multiple features to assist pilots.

### 4.1. Basic Flight Controls

Familiarize yourself with the remote control layout and basic flight movements:

## Multiple flight modes



**Figure 1: Multiple Flight Modes.** This diagram illustrates the various directional movements the helicopter can perform: rising, declining, flying left or right sideways, and turning left or right.

- **Throttle (Left Stick Up/Down):** Controls altitude (Rise/Decline).
- **Yaw (Left Stick Left/Right):** Controls the helicopter's rotation (Turn Left/Turn Right).
- **Pitch (Right Stick Up/Down):** Controls forward/backward movement.
- **Roll (Right Stick Left/Right):** Controls left/right sideways movement (Left Side Fly/Right Side Fly).

### 4.2. One-Click Takeoff and Landing

For ease of use, especially for novice operators, the C138 Pro features one-click takeoff and landing functionality.

One-click takeoff/landing | More suitable for novice operation



Barometric altitude



brushless motor



12-minute endurance

**Figure 2: One-Click Takeoff/Landing.** The image shows the helicopter ascending and descending, highlighting features like barometric altitude hold, brushless motor, and flight endurance.

Press the dedicated one-click takeoff button on the remote control to initiate an automatic ascent to a stable hover. Press the one-click landing button to initiate an automatic controlled descent and landing.

#### 4.3. Optical Flow Positioning and Altitude Hold

The helicopter is equipped with optical flow sensors and a barometric altitude hold system for enhanced stability.

## Optical flow positioning | Six way variable pitch structure

Optical flow positioning is more stable.  
Three servos are wind resistant, stable, and pressure free



**Figure 3: Optical Flow Positioning.** This image demonstrates the helicopter's stable flight capabilities due to optical flow positioning and its six-way variable pitch structure, supported by three wind-resistant servos.

These systems work together to maintain the helicopter's position and altitude, making it easier to control and providing a smoother flight experience, especially for hovering.

### 4.4. Speed Adjustment

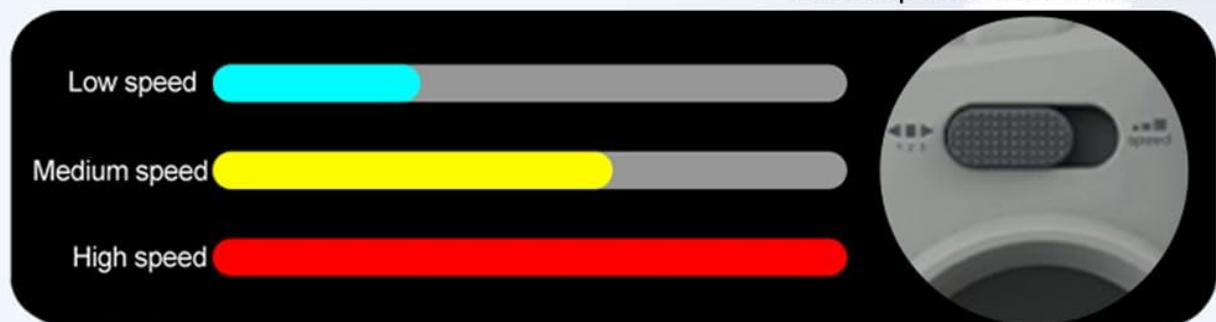
The C138 Pro offers multiple flight speeds to suit different skill levels and flying environments.

## Three speed adjustment | More exciting flying experience

Multiple flight speeds can be configured,  
and the flight gear can be selected according to personal proficiency



Three speed transmission



**Figure 4: Three Speed Adjustment.** The image displays the remote control's speed switch and a visual representation of the three available flight speeds: Low, Medium, and High, allowing pilots to select based on proficiency.

Use the speed adjustment button on the remote control to cycle through low, medium, and high-speed settings. Start with low speed until you are comfortable with the controls.

### 4.5. 3D Stunt Mode and One-Click Reverse Flight

For advanced pilots, the C138 Pro supports 3D stunt maneuvers, including one-click reverse flight.

## One click reverse flight mode | makes stunt flying easier

(Mastering stunt flying in one minute)

Need to stay away from crowds in open outdoor areas (wind below level 5)

Practice flying backwards and hovering, with a takeoff point of 3 meters and a gear of 3



**Figure 5: One-Click Reverse Flight Mode.** This image shows the helicopter in an inverted position, indicating its capability for reverse flight and stunt maneuvers. It advises practicing in open areas away from crowds.

Activate the 3D stunt mode or one-click reverse flight feature (refer to remote control diagram for specific button) to perform flips, rolls, and inverted flight. Practice these maneuvers in open, clear areas with sufficient space.

### 4.6. Unrestricted Multi-Directional Flight

Once the flight mode is activated, multi-directional flight can be initiated with a single click, allowing for versatile movement.

## Unrestricted flight in multiple directions

### Flight in multiple directions is unrestricted

Once the flight mode is activated,  
multi-directional flight can be started with just one click



**Figure 6: Unrestricted Flight.** The image illustrates the helicopter's ability to move freely in various directions, emphasizing its versatile flight capabilities once the flight mode is engaged.

## 5. MAINTENANCE

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### 5.1. Cleaning

Regularly clean the helicopter with a soft, dry cloth. Avoid using solvents or harsh chemicals that could damage the plastic components or electronics.

### 5.2. Blade Inspection

Before and after each flight, inspect the main and tail blades for any signs of damage, cracks, or deformities. Replace damaged blades immediately using the provided spare parts and tools (screwdriver, hex wrench).

### 5.3. Battery Care

Store batteries in a cool, dry place. Do not overcharge or over-discharge the battery. If the helicopter will not be used for an extended period, charge the battery to approximately 50% capacity before storage.

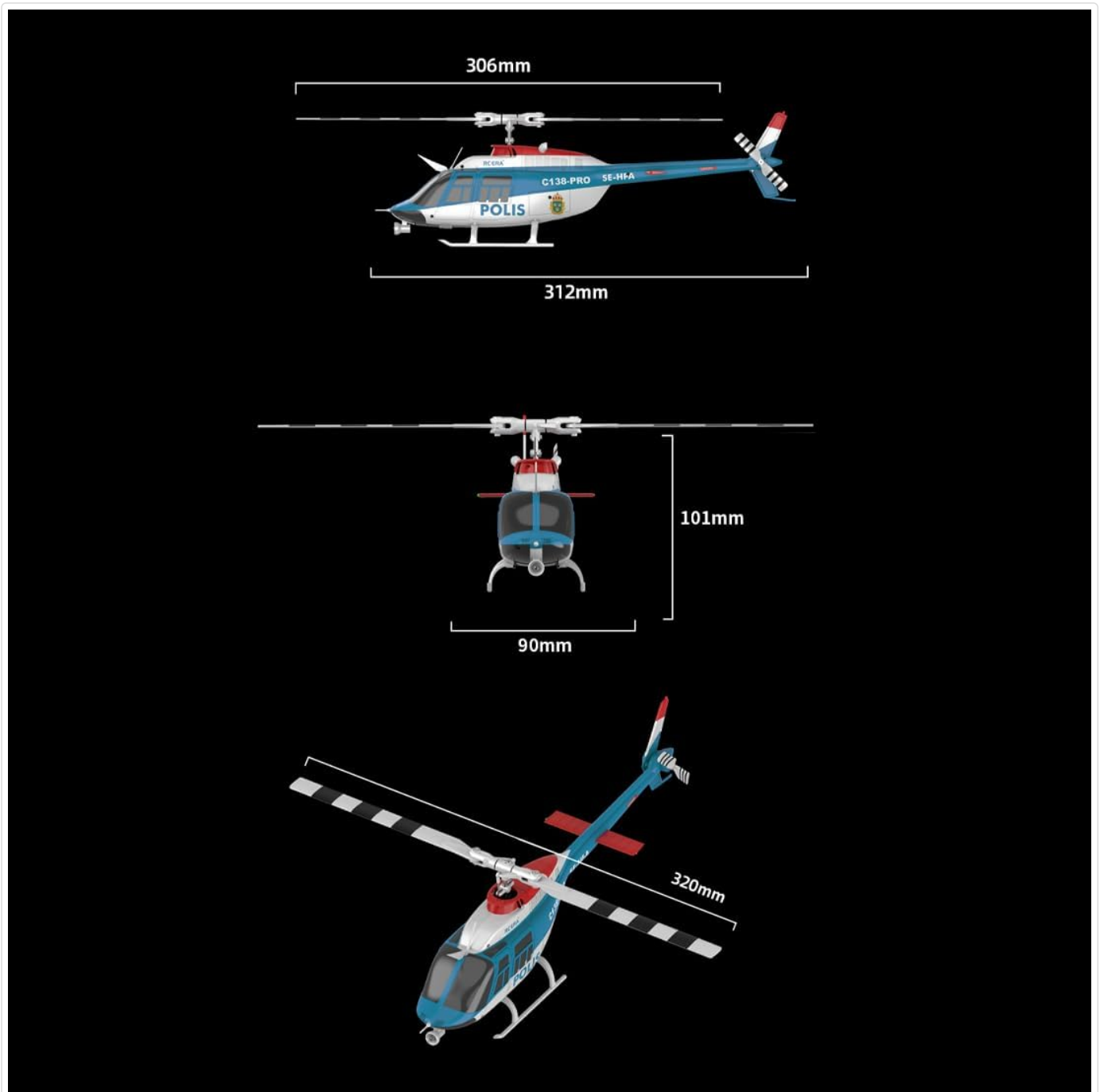
## 6. TROUBLESHOOTING

If you encounter issues with your RC ERA C138 Pro, refer to the following common problems and solutions:

| Problem                                        | Possible Cause                                                    | Solution                                                                                                                                        |
|------------------------------------------------|-------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| Helicopter does not respond to remote control. | Not paired, remote control batteries low, helicopter battery low. | Re-pair the helicopter and remote control. Replace remote control batteries. Charge helicopter battery.                                         |
| Helicopter flies erratically or drifts.        | Blades damaged, calibration issue, strong wind.                   | Inspect and replace damaged blades. Re-calibrate the helicopter (refer to remote control manual for calibration steps). Fly in calm conditions. |
| Short flight time.                             | Battery not fully charged, old battery, aggressive flying.        | Ensure battery is fully charged. Consider replacing old batteries. Fly more conservatively.                                                     |
| Motor not spinning.                            | Battery disconnected, motor obstruction, electronic fault.        | Check battery connection. Remove any obstructions from the motor/blades. If problem persists, contact support.                                  |

## 7. SPECIFICATIONS

Detailed technical specifications for the Meiurlex RC ERA C138 Pro Bell 206 RC Helicopter:



**Figure 7: Helicopter Dimensions.** This technical drawing provides key measurements of the RC ERA C138 Pro helicopter, including its main rotor diameter (306mm), fuselage length (312mm), height (101mm), and main blade length (320mm).

- **Model:** C138 Pro
- **Description:** 3D Six-Axis Single Rotor RC Helicopter
- **Material:** PA / PC (Polyamide / Polycarbonate)
- **Scale:** 1/33
- **Main Rotor Diameter:** 306 mm
- **Fuselage Length:** 312 mm
- **Height:** 101 mm
- **Flight Weight:** 110 g
- **Flight Time:** 8-10 minutes
- **Charging Time:** Approximately 50 minutes
- **Remote Distance:** 80-100 m
- **Channels:** 6

- **Motor Type:** Brushless Main Motor
- **Servos:** Three precision servos
- **Positioning System:** Optical Flow, Barometric Altitude Hold
- **Recommended Age:** 15 years and older

## 8. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the contact details provided with your purchase or visit the official Meirurlex website. Keep your proof of purchase for any warranty claims.

If you have any questions or require assistance with your RC ERA C138 Pro helicopter, please do not hesitate to contact our customer support team.

### ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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Anonymous

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**Question**

Example: How do I reset this device or fix this error?

**Details**

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question