

Actualia C189 MD500

Actualia RC ERA C189 MD500 Little Bird Helicopter Instruction Manual

Model: C189 MD500 | Brand: Actualia

INTRODUCTION

Thank you for purchasing the Actualia RC ERA C189 MD500 Little Bird Helicopter. This 1/28 scale remote control helicopter is designed for enthusiasts seeking a realistic and stable flight experience. Featuring a single-rotor flybarless design, 6-axis gyro stabilization, and powerful brushless motors, it offers precise control and robust performance. This manual provides essential information for safe operation, setup, maintenance, and troubleshooting to ensure an enjoyable experience.

SAFETY INFORMATION

Please read and understand all safety warnings and precautions before operating this product. Failure to do so may result in injury or damage to the product.

- **Adult Supervision:** This product is recommended for users aged 16 and up. Adult supervision is advised for younger users.
- **Flight Environment:** Operate the helicopter in open, clear areas, away from people, animals, buildings, power lines, and water. Avoid flying in strong winds.
- **Battery Safety:** Use only the specified lithium battery. Do not overcharge, short-circuit, or expose batteries to extreme temperatures. Discontinue use if the battery shows signs of swelling or damage.
- **Propeller Safety:** Keep hands, face, and loose clothing away from rotating propellers. Always disconnect the battery when not in use or during maintenance.
- **Moisture:** Do not operate the helicopter in rain or damp conditions.
- **Visual Line of Sight:** Always maintain visual line of sight with the helicopter during flight.

PACKAGE CONTENTS

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

- Helicopter (C189 MD500 Model)
- Remote Controller
- USB Charger

- Main Propeller Blades (5 pieces)
- Tail Propeller Blade (1 piece)
- Lithium Battery (Quantity may vary based on purchase)
- Screwdriver
- Hex Wrench
- Instruction Manual (this document)



Image: The package contents including the red and white C189 MD500 helicopter, remote controller, battery, USB charger, spare propeller blades, screwdriver, and hex wrench.

SETUP

1. Charging the Battery

1. Connect the provided USB charger to a USB power source (e.g., computer, USB wall adapter).
2. Connect the helicopter's lithium battery to the USB charger.
3. The indicator light on the charger will show the charging status (refer to charger instructions for specific light patterns).
4. Once fully charged, disconnect the battery from the charger. Do not overcharge.

2. Installing the Helicopter Battery

- Ensure the helicopter's power switch is in the OFF position.
- Carefully insert the charged lithium battery into the battery compartment of the helicopter.
- Connect the battery cable to the helicopter's power connector.
- Secure the battery compartment cover.

3. Remote Controller Setup

- Install 4x AA batteries (not included) into the remote controller, observing correct polarity.
- Turn on the remote controller.
- Turn on the helicopter.
- Place the helicopter on a flat, level surface.
- Move the throttle stick (left stick) all the way up, then all the way down. The remote controller and helicopter will bind automatically. A successful bind is indicated by a solid light on the helicopter.

OPERATING INSTRUCTIONS

Pre-Flight Check

- Ensure batteries in both the helicopter and remote controller are fully charged.
- Check that all propellers are securely attached and free from damage.
- Verify that the helicopter and remote controller are properly bound.
- Choose a safe, open flying area.

One-Key Takeoff and Landing

- **Takeoff:** After binding, press the One-Key Takeoff button on the remote controller. The helicopter will automatically ascend to a stable hovering height.
- **Landing:** During flight, press the One-Key Landing button. The helicopter will automatically descend and land gently.

Basic Flight Controls (Mode 2 - Left Hand Throttle)

- **Left Stick (Throttle/Yaw):**
 - Up/Down: Controls altitude (throttle).
 - Left/Right: Controls yaw (rotation around vertical axis).
- **Right Stick (Pitch/Roll):**
 - Up/Down: Controls pitch (forward/backward movement).
 - Left/Right: Controls roll (sideways movement).

6-Axis Gyroscope Stabilization

Dual brushless motor, wind resistant, stable, and pressure free

Equipped with dual powerful brushless motors, the wind resistance performance is greatly improved



Image: The C189 MD500 helicopter in stable flight, illustrating the effect of its 6-axis gyroscope for balanced and precise control, suitable for beginners.

The integrated 6-axis gyroscope system provides enhanced stability and precise control, making the helicopter easier to fly, especially for beginners. This system automatically corrects for minor deviations, ensuring a smooth and accurate flight attitude.

Dual Brushless Motors and Wind Resistance

Three speed adjustment for more exciting flight experience

Equipped with multiple flight speeds, flight gears can be selected based on personal proficiency, ensuring safety and comfort during play.



Image: A cutaway view of the C189 MD500 helicopter, highlighting the internal dual brushless motor system, which provides powerful thrust and improved wind resistance for stable outdoor flight.

Equipped with dual powerful brushless motors, the C189 MD500 offers excellent thrust and a longer lifespan compared to brushed motors. This design significantly improves the helicopter's wind resistance, allowing for stable outdoor flight even in moderate breezy conditions.

Three Speed Adjustment



Image: The C189 MD500 helicopter with a visual representation of its three adjustable speed settings (Low, Medium, High), allowing pilots to choose a flight speed based on their skill level.

The helicopter features three adjustable speed modes (Low, Medium, High). You can select the appropriate speed setting on the remote controller to match your flying proficiency and desired flight experience. Start with Low speed for learning and gradually increase as you gain confidence.

Remote Control Range

The 2.4GHz high-frequency remote control system provides a stable and responsive connection with an effective range of 100-120 meters. Always keep the helicopter within this range for optimal control.

MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the helicopter after each flight. Avoid using water or solvents.
- **Propeller Inspection:** Regularly check main and tail propellers for cracks, bends, or damage. Replace damaged propellers immediately using the provided spare parts and screwdriver.
- **Battery Storage:** Store batteries in a cool, dry place, away from direct sunlight and extreme temperatures. For long-term storage, charge batteries to approximately 50% capacity.
- **Motor Care:** Keep motors free from dust and debris. Avoid prolonged operation in sandy or dusty environments.

- **Screw Tightness:** Periodically check all screws and fasteners to ensure they are tight. Use the hex wrench and screwdriver as needed.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Helicopter does not respond to remote.	Low battery in helicopter or remote; not bound; out of range.	Charge batteries; re-bind helicopter and remote; operate within range.
Helicopter flies erratically or is unstable.	Propellers damaged; gyroscope calibration issue; strong wind.	Inspect/replace propellers; place on flat surface for re-calibration; fly in calm conditions.
Helicopter does not lift off.	Low battery; propellers installed incorrectly; throttle not advanced.	Charge battery; ensure propellers are correctly oriented; push throttle stick up.
Short flight time.	Battery not fully charged; aging battery.	Ensure full charge; consider replacing battery if performance degrades significantly.

SPECIFICATIONS

Feature	Detail
Model	C189 MD500
Scale	1/28
Control Channels	4CH
Stabilization	6-Axis Gyroscope
Motor Type	Dual Brushless Motors
Remote Control Frequency	2.4GHz
Remote Control Range	100-120 meters
Battery	3.7V Lithium Battery (Modular)
Flight Time	Approximately 15 minutes (per battery)
Product Dimensions	13.19 x 3.74 x 4.96 inches
Item Weight	1.1 pounds
Recommended Age	16 years and up

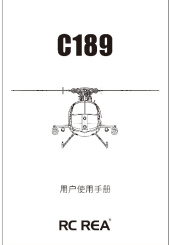

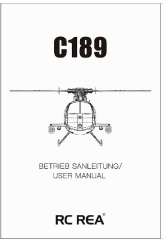


WARRANTY AND SUPPORT

For warranty information, technical support, or replacement parts, please contact Actualia customer service. Refer to the product packaging or the official Actualia website for contact details.

Manufacturer: Actualia

Model Number: 1407BNQXPEBI1825V5CL4

Related Documents - C189 MD500

 <p>The cover of the RC REA C189 user manual features a black and white line drawing of a helicopter. The text 'C189' is prominently displayed at the top, followed by '用户手册' (User Manual) in Chinese and 'RC REA' at the bottom.</p>	<p>RC REA C189</p> <p>RC REA C189</p>
 <p>The cover of the G-FORCE MD500 INCR instruction manual shows a detailed illustration of the helicopter. The G-FORCE logo is at the top, followed by 'MD500 INCR' and 'INSTRUCTION MANUAL' at the bottom.</p>	<p>G-FORCE MD500 INCR RC Helicopter Instruction Manual</p> <p>Comprehensive instruction manual for the G-FORCE MD500 INCR 2.4GHz 4ch Scale Helicopter with Altitude Hold & 6G Gyro. Covers safety, product details, flight preparation, operation, maintenance, and support.</p>
 <p>The cover of the RC ERA C189 Helicopter User Manual features a line drawing of the helicopter. The text 'C189' is at the top, followed by 'BETRIEB SANLEITUNG / USER MANUAL' and 'RC ERA' at the bottom.</p>	<p>RC ERA C189 Helicopter User Manual</p> <p>Comprehensive user manual for the RC ERA C189 helicopter, covering operation, safety precautions, battery handling, parts replacement, and troubleshooting.</p>
 <p>The cover of the AMEWI Hughes MD500 Helicopter 6G RTF - Instruction Manual shows a color illustration of the helicopter. The AMEWI logo is at the bottom right, and the title 'Hughes MD500 Helicopter 6G RTF' is at the bottom left.</p>	<p>AMEWI Hughes MD500 Helicopter 6G RTF - Instruction Manual</p> <p>Comprehensive instruction manual for the AMEWI Hughes MD500 Helicopter 6G RTF (models 25353, 25354). Covers introduction, safety warnings, battery handling, disposal, technical specifications, packaging list, remote control and helicopter parts, operation, flight preparation, flight control, troubleshooting, and more.</p>
 <p>The cover of the Thunder Tiger MD500 Scale RC Helicopter Fuselage Assembly Manual features a detailed illustration of the helicopter's fuselage. The text 'MD500' is at the top, followed by 'Assembly Manual' and 'Thunder Tiger' at the bottom.</p>	<p>Thunder Tiger MD500 Scale RC Helicopter Fuselage Assembly Manual</p> <p>Comprehensive assembly manual for the Thunder Tiger MD500 Hughes 500 MD Scale Fiberglass Fuselage (TTR3834). Includes parts list, tools, step-by-step instructions, and test flight guidance.</p>

Detailed guide on the Inovance MD38TX1 RS485 extension card, covering its overview, physical appearance, mechanical installation, terminal wiring, and bus topology for the MD500 series AC drive.