

470 Size CAIC Z10

Roban 470 Size CAIC Z10 RC Helicopter User Manual (X1 Flight Control)

Model: 470 Size CAIC Z10

1. INTRODUCTION

This manual provides essential instructions for the safe and effective operation, setup, and maintenance of your Roban 470 Size CAIC Z10 RTF RC Helicopter with X1 Flight Control. Please read this manual thoroughly before operating the helicopter to ensure proper functionality and to prevent damage or injury.

2. SAFETY PRECAUTIONS

- Always operate the helicopter in open areas, away from people, animals, and obstacles.
- Ensure the battery is fully charged and securely installed before each flight.
- Do not operate in strong winds or adverse weather conditions.
- Keep hands and face clear of rotating blades.
- This product is recommended for users aged 14 years and up.
- For external use only.

3. PACKAGE CONTENTS

Verify that all components are present in the package:

- Roban 470 Size CAIC Z10 RC Helicopter Fuselage
- CCPM Machinery
- Servo
- Brushless Motor and ESCs
- X1 Flight Controller
- 4800mAh Battery
- Remote Control
- Charger
- Rotor Blades (for installation)



Image: The Roban 470 Size CAIC Z10 RC Helicopter with its remote control, battery, and other accessories laid out.

4. SETUP

4.1. Rotor Blade Installation

The rotor blades need to be installed according to the provided instructions. Ensure they are securely fastened to prevent detachment during flight.

4.2. Battery Charging and Installation

Use the included charger to fully charge the 4800mAh battery before the first flight. Once charged, carefully install the battery into the helicopter's designated compartment, ensuring a secure connection.

4.3. Remote Control Preparation

Install the necessary batteries into the remote control. Power on the remote control and then the helicopter. The X1 Flight Control system should automatically pair with the remote. Refer to the remote control's specific manual for detailed pairing instructions if needed.



Image: The Roban 470 Size CAIC Z10 RC Helicopter alongside its remote control, ready for operation.

5. OPERATING INSTRUCTIONS

5.1. Pre-Flight Checks

- Inspect rotor blades for any damage or loose connections.
- Verify battery charge level on both the helicopter and remote control.
- Ensure the flight area is clear of obstacles and people.
- Check that the remote control is properly paired with the helicopter.

5.2. Flight Modes (X1 Flight Control)

The X1 Flight Control system offers various flight modes for different skill levels and flight conditions:

- **Manual Mode:** For experienced pilots, allowing full control over the helicopter's movements. When flying manually in 3D, the helicopter automatically increases speed for dynamic maneuvers.

- **GPS Fixed Point and Height Mode:** Provides stable flight by maintaining a fixed position and altitude using omni-directional GNSS positioning technology.
- **Semi-Autonomous Flight:** Offers assisted flight capabilities.
- **One-Key Return:** Initiates an automatic return to the take-off point.
- **Low Battery Voltage Detection:** Supports automatic return to prevent unexpected landings.
- **LED Light Patterns:** The X1 flight control features random LED light patterns.

ROBAN X1 / X2 飞控	470L-UH1D	470L-AIRWOLF 飞狼	470L-贝尔206	470L-MD500E/2桨版	470L-MD500E/4桨版	470L-武直10/2桨版	470L-武直10/4桨版
批发价50架+	¥ 3,500.00	¥ 3,600.00	¥ 3,600.00	¥ 3,600.00	¥ 3,880.00	¥ 3,800.00	¥ 4,080.00
批发价20架+	¥ 3,600.00	¥ 3,700.00	¥ 3,700.00	¥ 3,700.00	¥ 3,980.00	¥ 3,900.00	¥ 4,180.00
批发价1架+	¥ 3,700.00	¥ 3,800.00	¥ 3,800.00	¥ 3,800.00	¥ 4,080.00	¥ 4,000.00	¥ 4,280.00
最低零售价	¥ 4,600.00	¥ 4,700.00	¥ 4,700.00	¥ 4,700.00	¥ 5,000.00	¥ 5,000.00	¥ 5,300.00
	*全部含5200mAh电池+充电器						
不含遥控器	¥-300.00						
不含电池+充电器	¥-235.00						

Image: The Roban 470 Size CAIC Z10 RC Helicopter in flight, illustrating its manual mode capabilities for advanced users.



Manual Mode - Advanced for Veterans

When flying manually in 3D, the helicopter will automatically increase its speed to ensure the power of violent flight. The helicopter can be switched to GPS mode at any time, the helicopter will automatically stabilise and hover.

Image: Diagram detailing the features of the Intelligent Flight Control System, including 16V high-power, quick release design, X1/X2 intelligent flight control, circular motion, long battery life, and omni-directional dual-mode GPS positioning technology.

5.3. Take-off and Landing

To take off, slowly increase the throttle until the helicopter lifts smoothly. For landing, gently decrease the throttle while maintaining control, allowing the helicopter to descend steadily. Practice in a safe, open environment.

Your browser does not support the video tag.

Video: Demonstration of the Roban 470 Size CAIC Z10 RTF RC Helicopter in flight, showcasing its maneuverability and stability.

6. MAINTENANCE

6.1. Cleaning

After each flight, gently wipe down the helicopter's fuselage and blades with a soft, dry cloth to remove dust and debris. Avoid using harsh chemicals or excessive moisture.

6.2. Rotor Blade Inspection

Regularly inspect the rotor blades for any signs of cracks, chips, or bending. Damaged blades can affect flight performance and safety. Replace them if necessary.

6.3. Battery Care

Store the battery in a cool, dry place away from direct sunlight and extreme temperatures. Do not overcharge or completely discharge the battery. Follow the charging instructions provided with the charger.

6.4. Storage

When not in use, store the helicopter in its original packaging or a protective case to prevent damage. Remove batteries from both the helicopter and remote control if storing for extended periods.



Image: The Roban 470 Size CAIC Z10 RC Helicopter securely packed in its foam insert within a cardboard box, indicating safe storage.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Helicopter not responding to remote control.	Low battery in helicopter or remote; not properly paired.	Charge batteries; re-pair remote control and helicopter.
Unstable flight or difficulty hovering.	Damaged rotor blades; incorrect flight mode; strong winds.	Inspect and replace damaged blades; switch to GPS mode for stability; avoid flying in windy conditions.
Short flight time.	Battery not fully charged; aging battery.	Ensure battery is fully charged; consider replacing the battery if it's old.
LED lights not functioning as expected.	Flight control setting issue; X1 vs X2 flight control differences.	Verify flight control settings. Note that X1 flight control has random LED patterns, while X2 has 8 modes.

8. SPECIFICATIONS

- **Model:** 470 Size CAIC Z10 4 Blades
- **Rotor Blade Length:** 380mm
- **Body Length:** 880mm
- **Body Width:** 325mm
- **Body Height:** 268mm
- **Weight:** 1200g (2.65 lbs)
- **Flight Control:** X1 Flight Control (High-precision inertial guidance unit with omni-directional GNSS positioning)
- **Battery:** 4800mAh (included)
- **Product Dimensions:** 15.75 x 14.96 x 37.8 inches
- **Item Weight:** 11.42 pounds
- **Recommended Age:** 14 years and up



Image: Diagram illustrating the key dimensions of the Roban 470 Size CAIC Z10 RC Helicopter, including body length, width, and height.

9. WARRANTY AND SUPPORT

For warranty information, technical support, or replacement parts, please refer to the manufacturer's official website or contact their customer service directly. Keep your purchase receipt as proof of purchase.

