

CHEERSON CX-33C

CHEERSON CX-33C Quadcopter User Manual

Model: CX-33C

1. INTRODUCTION

Thank you for purchasing the CHEERSON CX-33C Quadcopter. This manual provides detailed instructions for the safe operation, setup, and maintenance of your new quadcopter. Please read this manual thoroughly before operating the device to ensure proper function and to prevent damage or injury. Keep this manual for future reference.

2. SAFETY GUIDELINES

Operating a quadcopter requires attention to safety. Failure to follow these guidelines may result in injury, damage to the product, or property damage.

- **Always operate in open areas:** Avoid flying near people, animals, buildings, or power lines.
- **Maintain visual line of sight:** Always keep the quadcopter in sight during flight.
- **Check weather conditions:** Do not fly in strong winds, rain, or other adverse weather.
- **Battery safety:** Use only approved chargers and batteries. Do not overcharge or puncture batteries.
- **Propeller safety:** Keep hands, face, and loose clothing away from rotating propellers. Install propeller guards before flight.
- **Age recommendation:** This product is recommended for users aged 14 and above.
- **Respect privacy:** Be mindful of privacy when using the camera function.

3. PACKAGE CONTENTS

Verify that all items are present in the package before proceeding with setup.

- CHEERSON CX-33C Quadcopter
- 2.4G Transmitter (Remote Controller)
- 7.4V 360mAh Quadcopter Battery

- USB Charging Cable
- Spare Propellers
- Propeller Guards
- Screwdriver
- User Manual



Image: All components included in the CHEERSON CX-33C package, neatly laid out. This includes the quadcopter, remote control, battery, USB charging cable, spare propellers, propeller guards, and a small screwdriver.

4. PRODUCT OVERVIEW

The CHEERSON CX-33C is a 6-motor quadcopter designed for stable flight and ease of use. It features a 6-axis gyro for stability and a high-density air pressure sensor for precise altitude hold.



Image: A white CHEERSON CX-33C quadcopter shown from a slight top-down angle, highlighting its six propellers and sleek design.

4.1 Key Features

- **6-Axis Gyro:** Provides enhanced stability and control.
- **High-Density Air Pressure Sensor:** Enables precise altitude hold for stable hovering.

- **6 Motors:** Offers increased power and flight performance.
- **LED Lights:** Integrated LED lights for visibility and aesthetic appeal.
- **Y-shaped Main Structure:** Unique design for durability and performance.
- **Integrated Camera:** For aerial photography and video recording (SD card not included).



Image: Front view of the CHEERSON CX-33C quadcopter, showcasing its illuminated LED lights on the motor arms, giving it a distinct appearance.

4.2 Propeller Guards

Propeller guards are included to protect the propellers from damage during collisions and to enhance safety. It is recommended to install them before flight, especially for beginners.



Image: The CHEERSON CX-33C quadcopter with its white propeller guards securely attached, providing protection around each of the six propellers.

4.3 Camera Module

The CX-33C is equipped with an integrated camera for capturing aerial footage. An SD card is required for recording and is not included in the package.



Image: A detailed close-up of the CHEERSON CX-33C's camera module, showing the lens and its compact design, ready for installation or already integrated into the drone's body.

5. REMOTE CONTROLLER OVERVIEW

The 2.4G transmitter controls the quadcopter's flight. It features dual-spring control sticks for precise manipulation.

5.1 Battery Installation (Transmitter)

1. Open the battery compartment cover on the back of the transmitter.
2. Insert 6 x 1.5V AA batteries (not included) according to the polarity markings.
3. Close the battery compartment cover securely.

Note: Always use new batteries and do not mix old and new batteries or different types of batteries.

6. QUADCOPTER BATTERY CHARGING

The quadcopter is powered by a 7.4V 360mAh Li-Po battery. Follow these steps for safe charging:

1. Connect the quadcopter battery to the USB charging cable.
2. Plug the USB charging cable into a USB power source (e.g., computer USB port, USB wall adapter).
3. The charging indicator light on the USB cable will show the charging status (refer to charger instructions for specific light indications).
4. Charging typically takes approximately 170 minutes. Do not leave the battery unattended during charging.
5. Once charging is complete, disconnect the battery from the charger.

Caution: Discontinue use if the battery shows signs of swelling, leakage, or damage. Do not charge near flammable materials.

7. SETUP AND PRE-FLIGHT CHECKS

7.1 Propeller Installation

Ensure propellers are correctly installed on the corresponding motor shafts. Each propeller is marked (e.g., A or B) and must match the motor's designation. Secure them with the provided screws.

7.2 Propeller Guard Installation

Attach the propeller guards to the quadcopter frame using the provided screws. Ensure they are firmly secured to prevent detachment during flight.

7.3 Binding the Quadcopter and Transmitter

1. Place the quadcopter on a flat, level surface.
2. Connect the fully charged battery to the quadcopter. The quadcopter's indicator lights will flash.
3. Turn on the transmitter.
4. Push the left throttle stick (Mode 2) or right throttle stick (Mode 1) all the way up, then all the way down.
5. The quadcopter's indicator lights will stop flashing and remain solid, indicating successful binding.

7.4 Gyro Calibration

After binding, perform a gyro calibration for stable flight:

1. Ensure the quadcopter is on a flat, level surface.
2. Move both control sticks to the bottom-right corner simultaneously (or as per specific transmitter instructions).
3. The quadcopter's lights will flash rapidly and then become solid, indicating successful calibration.

8. OPERATING INSTRUCTIONS

8.1 Basic Flight Controls

- **Throttle (Left Stick Up/Down):** Controls ascend and descend.
- **Yaw (Left Stick Left/Right):** Rotates the quadcopter left or right.
- **Forward/Backward (Right Stick Up/Down):** Moves the quadcopter forward or backward.
- **Left/Right Sideward Fly (Right Stick Left/Right):** Moves the quadcopter sideways.

8.2 One-Key Take-off and Landing

The CX-33C features one-key take-off and landing functions for simplified operation.

- **One-Key Take-off:** Press the designated button (refer to transmitter diagram) once. The quadcopter will automatically ascend to a stable hovering height.
- **One-Key Landing:** Press the designated button again during flight. The quadcopter will automatically descend and land gently.

8.3 Mode Switching (Mode 1 / Mode 2)

The transmitter supports switching between Mode 1 and Mode 2 control schemes. Refer to your transmitter's specific button for this function.

8.4 Camera Operation

To use the camera, insert a compatible micro SD card (not included) into the camera slot on the quadcopter. Refer

to the transmitter's specific buttons for initiating video recording or taking photos. Ensure sufficient lighting for optimal video quality.

9. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the quadcopter and transmitter. Avoid water or solvents.
- **Propeller Inspection:** Regularly check propellers for cracks, bends, or damage. Replace damaged propellers immediately.
- **Motor Care:** Keep motors free from dust and debris. Do not force rotation if obstructed.
- **Battery Storage:** Store batteries in a cool, dry place away from direct sunlight. For long-term storage, charge batteries to approximately 50%.
- **Firmware:** Check the manufacturer's website for any available firmware updates.

10. TROUBLESHOOTING

Problem	Possible Cause	Solution
Quadcopter does not respond to transmitter.	Not bound, low transmitter battery, low quadcopter battery.	Re-bind the quadcopter. Replace transmitter batteries. Charge quadcopter battery.
Unstable flight/driftng.	Gyro not calibrated, damaged propellers, uneven surface during take-off.	Perform gyro calibration on a flat surface. Check and replace damaged propellers.
Short flight time.	Battery not fully charged, aging battery.	Ensure battery is fully charged (approx. 170 mins). Consider replacing the battery if it's old.
Limited control range.	Environmental interference, low transmitter battery.	Fly in open areas away from interference. Replace transmitter batteries.
Camera not recording/poor quality.	No SD card, incompatible SD card, insufficient lighting.	Insert a compatible micro SD card. Ensure adequate lighting.

11. SPECIFICATIONS

Feature	Detail
Brand	CHEERSON
Model Name	CX-33C
Frequency	2.4G
Channels	4CH
Gyro	6-axis
Material	ABS
Quadcopter Size	310 x 345 x 85mm
Quadcopter Weight	152g

Feature	Detail
Blade Size	140mm
Flight Time	6-7 minutes
Charging Time	About 170 minutes
Control Distance	About 30-80M
Quadcopter Battery	7.4V 360mAh
Transmitter Battery	1.5V AA battery (not included)

12. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided with your purchase or contact CHEERSON customer service directly. Keep your proof of purchase for warranty claims.