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> CHUBORY F89 Foldable Drone User Manual

CHUBORY F89

CHUBORY F89 Foldable Drone User Manual

Model: F89 | Brand: CHUBORY

1. INTRODUCTION

This manual provides essential instructions for the safe operation, setup, and maintenance of your CHUBORY F89 Foldable Drone. Please read this manual thoroughly before operating the drone to ensure proper function and to prevent damage or injury. Keep this manual for future reference.

2. SAFETY GUIDELINES

Operating a drone requires responsibility. Adhere to the following safety guidelines:

- **Local Regulations:** Always comply with local aviation laws and regulations. Check for any no-fly zones or restrictions in your area.
- **Line of Sight:** Maintain visual line of sight with the drone at all times during flight.
- **Environmental Conditions:** Do not fly in strong winds, rain, snow, or fog. Optimal flight conditions are calm and clear.
- **Obstacle Avoidance:** Keep the drone away from people, animals, buildings, trees, power lines, and other obstacles.
- **Battery Safety:** Use only approved chargers and batteries. Do not overcharge or puncture batteries. Discontinue use if batteries are damaged or swollen.
- **Pre-Flight Check:** Before each flight, ensure all components are securely attached, propellers are undamaged, and batteries are fully charged.
- **Age Recommendation:** This product is suitable for users aged 14 and above.

3. PACKAGE CONTENTS

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

- CHUBORY F89 Drone
- Remote Control

- Rechargeable Batteries (3 included)
- USB Charging Cable
- Spare Propellers
- Propeller Guards
- Screwdriver
- User Manual (this document)
- Carrying Case



Image: The CHUBORY F89 drone, remote control, three batteries, spare propellers, propeller guards, screwdriver, and USB charging cable, all neatly arranged within a protective carrying case.

4. COMPONENT IDENTIFICATION

4.1 Drone Overview



Image: A detailed front view of the CHUBORY F89 foldable drone, showcasing its four propellers, central body, and integrated camera. The CHUBORY F89 drone features a foldable design for portability. Key components include:

- **Propellers:** Four rotating blades for lift and propulsion.
- **Brushless Motors:** Provide efficient and powerful flight.
- **4K HD Camera:** Front-facing camera for high-resolution photo and video capture.
- **Bottom Optical Flow Camera:** Assists with stable hovering and positioning.
- **Battery Compartment:** Located on the drone's body for battery insertion.
- **Power Button:** To turn the drone on/off.

4.2 Remote Controller Overview

The remote controller allows for precise manipulation of the drone's flight and camera functions. Refer to the controller diagram in the quick start guide for specific button layouts.

5. SETUP

5.1 Battery Charging and Installation

Ensure all batteries are fully charged before first use.

1. **Drone Battery Charging:** Connect the drone battery to the USB charging cable, then plug the cable into a USB power adapter (not included). The indicator light will show charging status and turn off when fully charged.
2. **Drone Battery Installation:** Insert the charged battery into the drone's battery compartment until it clicks into place.
3. **Remote Controller Battery Installation:** Open the battery cover on the back of the remote controller and insert the required batteries (typically AA, refer to controller markings) with correct polarity.



Image: Illustration showing three drone batteries, highlighting their efficient design and the potential for extended flight time up to 60 minutes with multiple batteries.

5.2 Drone Preparation

1. **Unfold the Drone:** Gently unfold the drone arms until they lock into position.
2. **Propeller Guards (Optional):** For beginner pilots, attach the propeller guards to protect the propellers during initial flights.

5.3 App Download and Connection

To utilize FPV and advanced features, download the dedicated drone application to your smartphone.

1. **Download App:** Scan the QR code provided in the quick start guide or search for the app name (e.g., 'CHUBORY FPV') in your device's app store.
2. **Connect Wi-Fi:** Turn on the drone. On your smartphone, go to Wi-Fi settings and connect to the drone's Wi-Fi network (e.g., 'Drone_XXXXXX').
3. **Launch App:** Open the drone application. You should see the live camera feed from the drone.

6. OPERATING INSTRUCTIONS

6.1 Pre-Flight Checklist

- Drone and remote controller batteries are fully charged.
- Propellers are correctly installed and undamaged.
- Drone arms are fully unfolded and locked.
- Flight area is clear of obstacles and people.
- Weather conditions are suitable for flight.

6.2 Basic Flight Controls

1. **Power On:** Place the drone on a flat, level surface. Turn on the drone, then turn on the remote controller.
2. **Pairing:** Push the left joystick up then down to pair the controller with the drone. Indicator lights will stabilize.
3. **Calibration:** Perform gyroscope calibration by pushing both joysticks to the bottom-left or bottom-right corners (refer to quick start guide for exact motion).
4. **One-Key Take-off:** Press the one-key take-off button on the remote controller or in the app. The drone will automatically ascend to a stable altitude.
5. **Altitude Hold:** The drone maintains its current altitude automatically, allowing for easier control of horizontal movement.
6. **Directional Control:** Use the joysticks to control ascent/descent, forward/backward, and left/right movements.
7. **Speed Adjustment:** Press the speed switch button on the remote to cycle through different flight speeds (e.g., 30%, 60%, 100%) to suit your skill level and environment.
8. **One-Key Landing:** Press the one-key landing button. The drone will slowly descend and land automatically.



Image: Visual representations of key drone functions: one-key take-off/landing, headless mode, altitude hold, and low battery warning indicators.

6.3 Advanced Flight Features

- **First Person View (FPV):** Through the connected smartphone app, you can view the drone's camera feed in real-time, providing an immersive flight experience.
- **Follow Me Mode:** When activated via the app, the drone will automatically follow the subject (e.g., the person holding the remote/phone) at a set distance. Ensure the subject is clearly visible to the drone's camera.

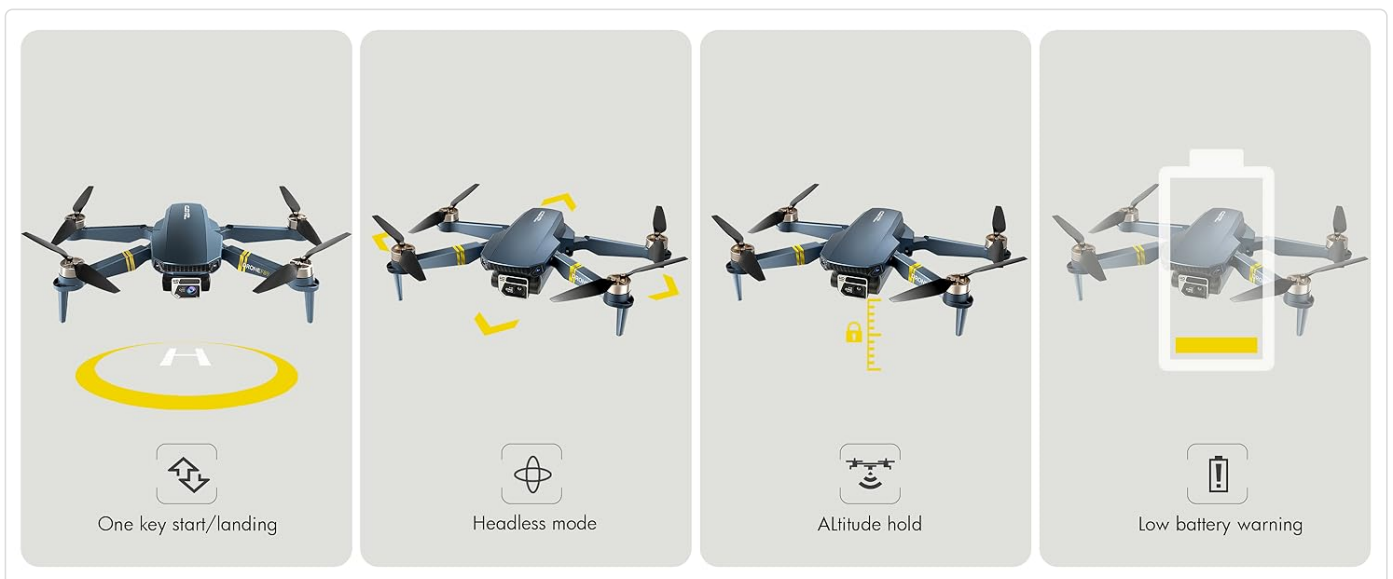


Image: A drone tracking a person in a skate park, demonstrating the 'Smart Follow' feature where the drone maintains a distance of approximately 2 meters from the target figure.

- **Trajectory Flight:** In the app, draw a desired flight path on the screen. The drone will then automatically fly along this pre-defined trajectory.

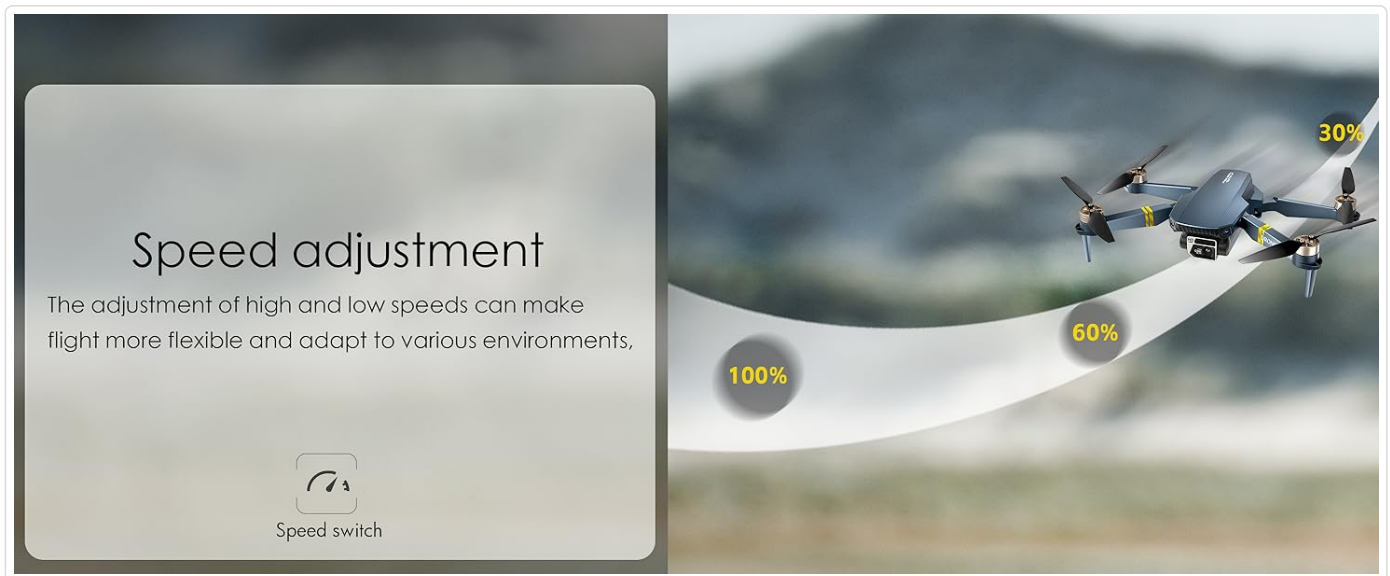


Image: An illustration of the 'Trajectory Flight' function, showing a drone following a user-drawn path over a scenic winding road.

- **Headless Mode:** In this mode, the drone's orientation is irrelevant. It will move forward, backward, left, or right relative to the pilot's position, simplifying control for beginners.
- **Gesture Selfie:** Perform specific hand gestures in front of the camera to trigger photo or video capture (refer to app instructions for specific gestures).
- **Optical Flow Positioning:** The bottom camera assists in precise indoor hovering and stable flight by analyzing ground patterns.

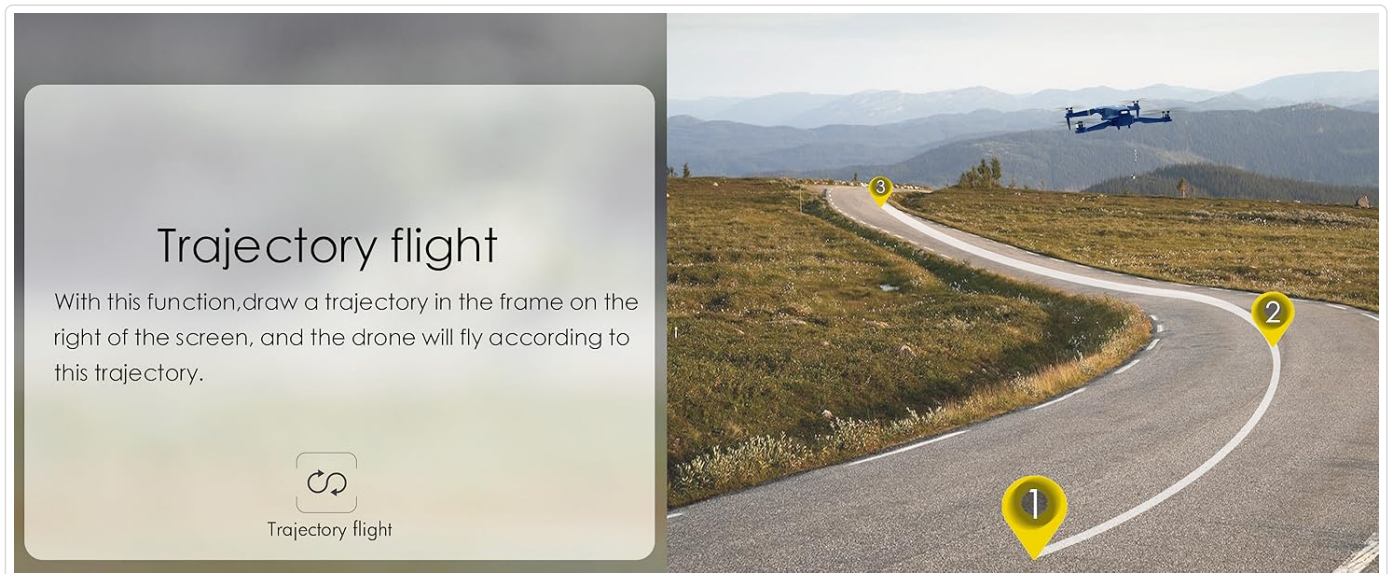


Image: A drone hovering over a textured landscape, illustrating how optical flow technology enables precise positioning and stable flight by analyzing ground features.

6.4 Camera Operation

The CHUBORY F89 drone is equipped with a 4K HD front camera and a bottom optical flow camera.

- **Photo/Video Capture:** Use the dedicated buttons on the remote controller or the controls within the smartphone app to take photos or start/stop video recording.
- **Camera Switching:** The app allows you to switch between the front 4K HD camera and the bottom optical flow camera for different perspectives.
- **Image Storage:** Photos and videos are typically saved to your connected smartphone or an inserted SD card (if applicable, check drone specifications).

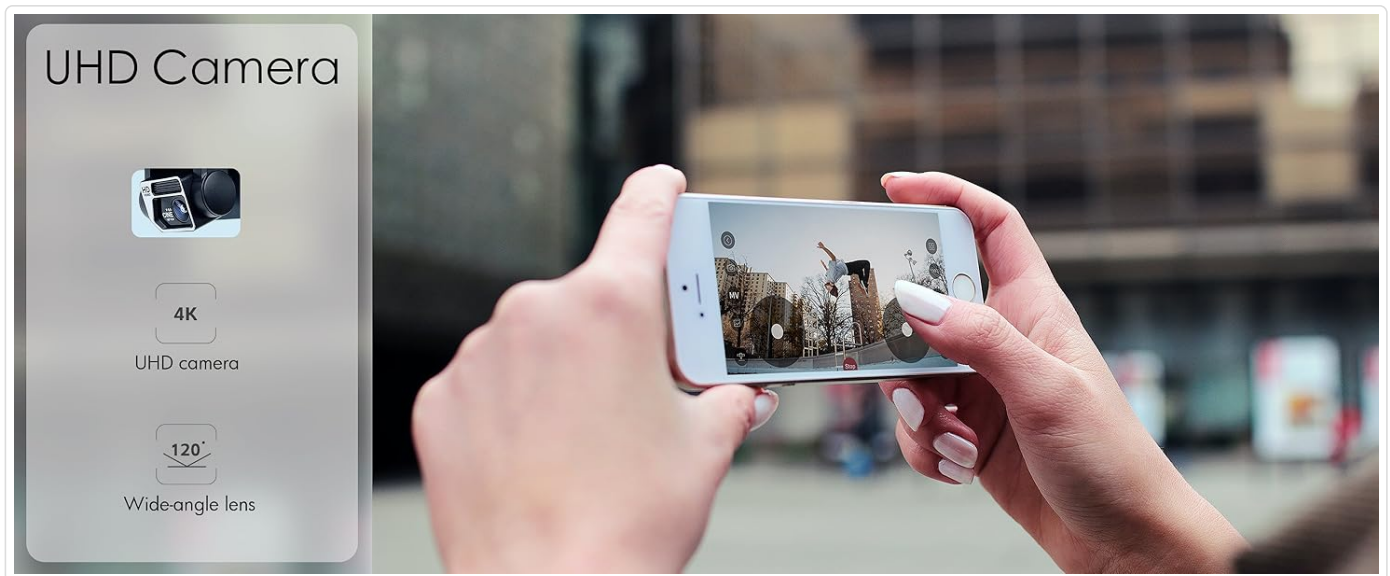


Image: A person holding a smartphone, which displays the live 4K UHD camera feed from the drone, demonstrating the FPV capability and wide-angle lens.

7. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the drone and remote controller. Avoid using liquids or solvents.
- **Propeller Replacement:** If propellers are damaged, replace them immediately using the provided spare propellers and screwdriver. Ensure correct propeller orientation (A and B types).
- **Battery Care:** Store batteries in a cool, dry place. Do not store fully charged or completely depleted batteries for extended periods. Charge them to about 50-60% for long-term storage.
- **Storage:** When not in use, store the drone and its accessories in the carrying case to protect them from dust and physical damage.

8. TROUBLESHOOTING

If you encounter issues, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Drone does not power on	Battery depleted or incorrectly installed	Charge battery fully; ensure correct installation.
Cannot connect to remote controller	Improper pairing sequence or low controller battery	Follow pairing instructions; replace controller batteries.
Unstable flight/Drifting	Drone not calibrated; strong wind; damaged propeller	Perform gyroscope calibration; fly in calm conditions; replace damaged propellers.
No FPV feed in app	Wi-Fi not connected; app not launched; drone too far	Ensure phone is connected to drone's Wi-Fi; restart app; fly closer to drone.
Short flight time	Battery not fully charged; old battery; aggressive flying	Ensure full charge; consider replacing old batteries; fly more conservatively.

If problems persist, please contact CHUBORY customer support for assistance.

9. SPECIFICATIONS

Feature	Detail
Brand	CHUBORY
Model Name	F89
Control Range	Up to 2650 Feet
Flight Time	Up to 60+ minutes (with 3 batteries)
Camera Resolution	4K HD (Video Capture Resolution)
Camera Features	120° Wide-angle lens, Switchable front/bottom cameras
Motor Type	Brushless Motor
Connectivity	Wi-Fi
Control Type	Remote Control, App Control
Battery Type	Lithium Ion
Item Weight	153 Grams (5.4 ounces)
Product Dimensions	3.74"L x 3.74"W x 1.18"H (Folded)
UPC	718027255043

10. WARRANTY AND SUPPORT

The CHUBORY F89 drone comes with a one-year warranty. CHUBORY also provides permanent support for its products. For technical assistance, troubleshooting, or warranty claims, please contact CHUBORY customer support through their official channels or visit the [CHUBORY Store on Amazon](#).