FAKJANK F417

FAKJANK Mini Drone F417 User Manual

Model: F417 | Brand: FAKJANK

1. Introduction

This manual provides essential information for the safe operation and maintenance of your FAKJANK Mini Drone F417. Please read it thoroughly before first use to ensure optimal performance and to prevent damage.

The FAKJANK Mini Drone F417 is a compact, foldable quadcopter equipped with a 1080P HD camera, dynamic RGB LED lights, and advanced flight features such as optical flow positioning, altitude hold, and gesture control. Designed for ease of use, it is suitable for both beginners and experienced pilots.

2. Package Contents

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

- Drone x1
- Remote Control x1
- Battery x1 (additional batteries may be included depending on package)
- Propeller x4 (spare)
- Protective Frame x4
- Screwdriver x1
- USB Cable x1
- Carrying Case x1
- Instruction Manual x1



Figure 2.1: FAKJANK Mini Drone F417, remote control, and carrying case.



Figure 2.2: Detailed view of all included components: drone, remote, batteries, propellers, protective frames, screwdriver, USB cable, carrying case, and manual.

3. Setup

3.1 Unfolding the Drone

1. Gently unfold the drone arms until they lock into position. Ensure all four arms are fully extended.
2. Attach the protective frames to the propeller arms if desired, for added safety during flight.



Figure 3.1: Drone with arms unfolded and ready for flight.

3.2 Battery Installation and Charging

1. Insert the modular battery into the designated slot on the rear of the drone until it clicks securely into place.
2. To charge the battery, remove it from the drone and connect it to the USB charging cable. Plug the USB cable into a 5V/1A USB power adapter (not included) or a computer USB port. The battery features built-in overvoltage protection.
3. Ensure the battery is fully charged before each flight for optimal performance.



Figure 3.2: Modular battery installation and charging port.

3.3 Remote Control Setup

1. Unfold the phone holder on the remote control.
2. Insert your smartphone into the holder.
3. Download and install the FAKJANK drone app from your device's app store.
4. Power on the remote control by pressing and holding the power button.



Figure 3.3: Remote control with smartphone for FPV viewing.

3.4 Pairing the Drone and Remote

1. Place the drone on a flat, level surface.
2. Press and hold the power button on the drone until the LED lights illuminate.
3. Power on the remote control. The remote will automatically search for the drone.
4. Once connected, the drone's LED lights will stop blinking and remain solid.
5. Open the FAKJANK app on your smartphone and connect to the drone's Wi-Fi network (usually named 'FAKJANK-F417-XXXX').

4. Operating Instructions

4.1 Basic Flight Controls

- **One-Key Takeoff/Landing:** Press the dedicated one-key takeoff/landing button on the remote or app to automatically launch or land the drone.
- **Altitude Hold:** The drone maintains a stable altitude automatically, allowing for easier control and steady footage.

- **Headless Mode:** In headless mode, the drone's orientation is relative to the pilot, simplifying flight control regardless of the drone's front direction.



Figure 4.1: Key flight features for user-friendly operation.

4.2 Advanced Flight Modes

- **3-Speed Modes:** Adjust flight speed (low, medium, high) via the remote or app to match your skill level and environment.
- **360-Degree Flip:** Execute impressive aerial flips with a single button press for dynamic maneuvers.
- **Optical Flow Positioning:** This feature uses a downward-facing camera to detect patterns on the ground, providing stable hovering and precise positioning, especially indoors or in areas with weak GPS signals.
- **Tap Fly:** Draw a flight path on your smartphone screen, and the drone will automatically follow it.



Figure 4.2: Demonstrating 360-degree flip and speed modes.

4.3 Camera Operation

- **1080P HD Camera:** The drone is equipped with a 1080P HD camera for capturing high-quality photos and videos.
- **90° Adjustable Camera:** Adjust the camera angle remotely via the app or controller to capture various perspectives.
- **FPV (First-Person View):** View live footage from the drone's camera directly on your smartphone screen through the app.
- **Gesture Control:** Use specific hand gestures (e.g., peace sign for photos, palm for video) to trigger camera functions.



Figure 4.3: 1080P HD camera features and FPV capability.



Figure 4.4: Gesture control for hands-free photo and video capture.

4.4 RGB LED Lights

The drone features vibrant RGB LED lights, enhancing visibility and making night flights more engaging. These lights also assist in orientation during low-light conditions.

Video 4.1: Demonstration of F417 Colourful Lights LED Drone features, including flight and camera capabilities.

5. Maintenance

5.1 Propeller Replacement

1. If a propeller is damaged, use the provided screwdriver to carefully remove the screw holding the damaged propeller.
2. Replace with a new propeller from the spare parts, ensuring it is correctly oriented (clockwise/counter-clockwise).
3. Secure the new propeller with the screw.

5.2 Battery Care

- Always use the provided USB cable for charging.
- Do not overcharge or completely drain the battery.
- Store batteries in a cool, dry place away from direct sunlight and extreme temperatures.

6. Troubleshooting

Problem	Possible Cause	Solution
Drone does not respond to remote.	Not paired correctly.	Ensure drone and remote are powered on and paired as per Section 3.4.
Drone is unstable during flight.	Improper calibration or strong wind.	Perform horizontal calibration (refer to app instructions). Fly in calm conditions.
Camera footage is blurry.	Lens is dirty or lighting is poor.	Clean the camera lens. Ensure adequate lighting for recording.
Short flight time.	Battery not fully charged or old battery.	Fully charge the battery before each flight. Consider replacing old batteries.

7. Specifications

- **Brand:** FAKJANK
- **Model Name:** F417
- **Special Features:** 360 Degree Flip, Adjustable Camera, Foldable Design, RGB LED Lights, Optical Flow Positioning, Gesture Control, One-Key Takeoff/Landing, Altitude Hold
- **Age Range (Description):** Adult
- **Color:** Black
- **Video Capture Resolution:** 1080p
- **Connectivity Technology:** Wi-Fi
- **Item Weight:** 113.9 Grams (approx. 4 ounces)
- **Video Capture Format:** MP4
- **Control Type:** Remote Control
- **Material:** Plastic
- **Battery Cell Composition:** Lithium Ion
- **Product Dimensions:** 6"L x 1"W x 7"H (folded dimensions may vary)
- **Wind Resistance:** Scale 4 (suitable for light wind conditions)

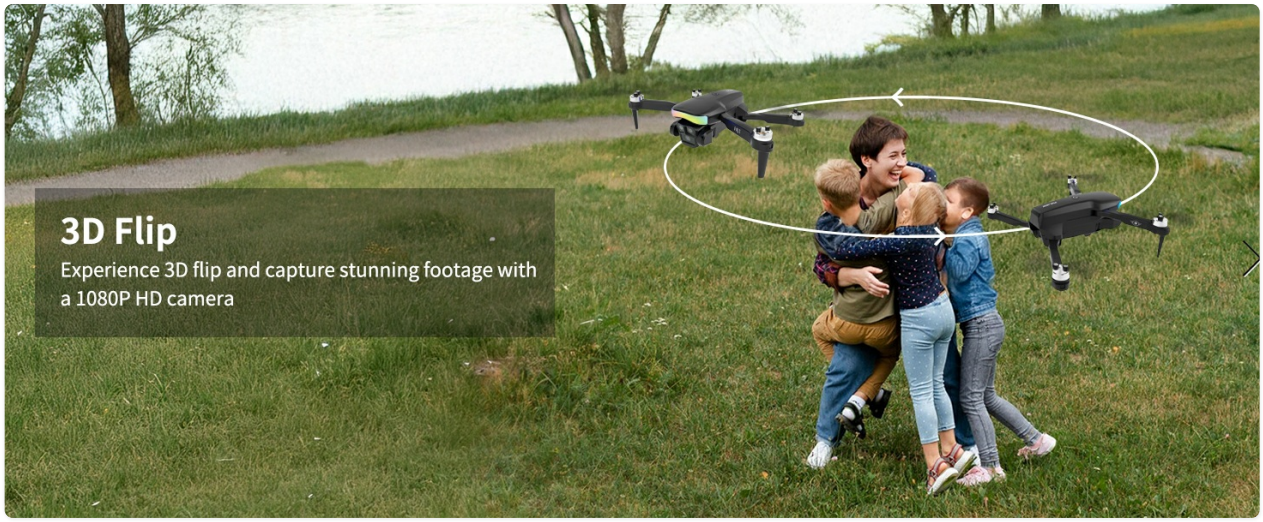


Figure 7.1: Drone flying in light wind conditions, demonstrating stability.

8. Warranty and Support

For any product inquiries, technical support, or warranty claims, please contact FAKJANK customer service directly. Our dedicated after-sales team is available to assist you.

- **Email:** fakjank@gmail.com
- **Online Support:** Refer to the FAKJANK store page on Amazon for additional resources and contact options.



Figure 8.1: FAKJANK customer support team ready to assist.