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› [FAKJANK F405 GPS Drone User Manual: 4K Camera, Brushless Motor, Auto Return, 5G Transmission](#)

FAKJANK F405

FAKJANK F405 GPS Drone User Manual

Comprehensive instructions for operating and maintaining your FAKJANK F405 GPS Drone.

1. INTRODUCTION

Welcome to the FAKJANK F405 GPS Drone user manual. This guide provides essential information for safe operation, setup, and maintenance of your new drone. Please read this manual thoroughly before your first flight to ensure proper usage and to maximize your flying experience.

2. IMPORTANT SAFETY GUIDELINES

Operating a drone requires responsibility. Adhere to all local regulations and guidelines for drone usage. Failure to follow these instructions may result in damage to the drone, property, or personal injury.

- **Pre-Flight Check:** Always inspect the drone, remote control, and batteries for any damage before each flight.
- **Environmental Conditions:** Do not fly in strong winds (above Level 4), rain, snow, or fog. Maintain a clear line of sight to the drone.
- **Flight Area:** Fly in open areas, away from people, animals, buildings, and power lines. Avoid flying over crowds.
- **Battery Safety:** Use only original FAKJANK batteries. Do not overcharge or puncture batteries. Discontinue use if batteries are swollen or damaged.
- **Respect Privacy:** Be mindful of privacy laws when using the camera.
- **Emergency Procedures:** Familiarize yourself with the automatic return-to-home function for emergencies.

3. PACKAGE CONTENTS

Verify that all items listed below are included in your package. If any items are missing or damaged, please contact customer support.



Image: The FAKJANK F405 drone, remote control, two batteries, spare propellers, screwdriver, USB cable, and carrying case.

- FAKJANK F405 Drone x 1
- Remote Control x 1
- Modular Batteries x 2
- Spare Propellers x 4
- Screwdriver x 1
- USB Charging Cable x 1
- Carrying Case x 1
- User Manual x 1

4. COMPONENT IDENTIFICATION

Familiarize yourself with the various parts of your F405 drone and its remote control.

4.1 Drone Components



Image: The FAKJANK F405 drone, showing its main body, propellers, and camera.

- **Propellers:** Four rotating blades for lift and propulsion.
- **Brushless Motors:** Provide powerful and efficient flight.
- **4K Camera:** Front-facing camera for high-resolution photo and video capture.
- **Optical Flow Sensor:** Located on the bottom for stable indoor hovering.
- **Modular Battery Compartment:** Houses the removable flight battery.
- **LED Indicators:** Provide status information (e.g., power, GPS signal).

4.2 Remote Control Components

Modular Battery



18 Mins

Image: The FAKJANK drone remote control with a smartphone holder, displaying various control buttons and joysticks.

- **Left Joystick:** Controls altitude (throttle) and rotation (yaw).
- **Right Joystick:** Controls forward/backward (pitch) and left/right (roll).
- **Power Button:** Turns the remote control on/off.
- **One-Key Take-off/Landing Button:** Initiates automatic take-off or landing.
- **Return-to-Home (RTH) Button:** Activates the automatic return function.
- **Speed Mode Button:** Toggles between different flight speeds.
- **Photo/Video Button:** Captures photos or starts/stops video recording.
- **Smartphone Holder:** Secures your smartphone for FPV viewing.

5. SETUP

5.1 Battery Charging and Installation

Image: Illustration of the drone's brushless motor and two modular batteries, highlighting their design and 38-minute flight time.

- Charge Batteries:** Connect the modular batteries to the provided USB charging cable and plug into a 5V/2A USB adapter. The indicator light will show charging status and turn off when fully charged.
- Install Drone Battery:** Insert a fully charged battery into the drone's battery compartment until it clicks securely into place.
- Install Remote Control Batteries:** Open the battery cover on the remote control and insert 3 AAA batteries (not included), ensuring correct polarity.

5.2 Propeller Installation

The F405 drone uses specific propellers for each motor. Ensure correct installation.

- Identify propellers marked 'A' and 'B'.
- Match 'A' propellers to 'A' motor shafts and 'B' propellers to 'B' motor shafts.
- Secure each propeller with the provided screws using the screwdriver. Do not overtighten.

5.3 App Installation and Connection

Download the official FAKJANK drone app from your smartphone's app store (iOS/Android) for FPV viewing and advanced flight features.

- Scan the QR code in the quick start guide or search for the app name.
- Install the app on your smartphone.
- Mount your smartphone securely in the remote control holder.

6. OPERATING INSTRUCTIONS

6.1 Pre-Flight Checklist

- Ensure drone and remote control batteries are fully charged.
- Check propellers for damage and ensure they are securely attached.
- Confirm the flight area is clear and safe.
- Turn on the remote control first, then the drone.

6.2 Pairing and Calibration

- Power On:** Turn on the remote control, then press and hold the drone's power button until its indicator lights flash.
- Pairing:** Push the left joystick up then down. The drone lights will stop flashing and remain solid, indicating successful pairing.
- GPS Calibration:** After pairing, place the drone on a flat surface. The drone will automatically search for GPS signals. Once enough satellites are found (indicated by solid green lights), GPS mode is active.
- Compass Calibration:** If required, follow the app's instructions to perform compass calibration by rotating the drone horizontally and vertically.

6.3 Take-off and Landing

- One-Key Take-off:** Press the one-key take-off button on the remote control. The drone will automatically ascend to a safe altitude and hover.
- Manual Take-off:** Push both joysticks down and outwards simultaneously to start the motors. Then, gently push the left joystick up to ascend.

- **One-Key Landing:** Press the one-key landing button. The drone will automatically descend and land.
- **Manual Landing:** Gently pull the left joystick down to descend. Once landed, push both joysticks down and inwards to stop the motors.

6.4 Flight Modes and Features

6.4.1 GPS Auto Return Home (RTH)

Automatische terugkeer

- **Een Klik Terug**
- **Terugkeren als er Geen Signaal is**
- **Laag Vermogen Retour**

Druk op de terugkeerknop wanneer de drone uit je zicht vliegt, hij vliegt terug naar het startpunt dat je hebt ingesteld als startplaats.

In geval van signaalverlies of een bijna lege batterij zal de drone autonoom terug navigeren naar zijn startpunt en veilig landen.



Image: The FAKJANK F405 drone demonstrating its automatic return function, flying back to its original take-off location.

The drone is equipped with precise GPS positioning for safe return. Press the RTH button, and the drone will automatically return to its recorded take-off point. This function also activates automatically in cases of low battery or signal loss.

6.4.2 4K Camera Operation



Camera HD 4K 90° Elektrisch Verstelbaar

- Camera HD 4K legt elke prachtige opname vast en levert een beeld met hoge resolutie op.
- 90° elektrisch verstelbare lens kunt u de opnamehoek vrij wijzigen.



Image: A detailed view of the FAKJANK F405 drone's 4K HD camera, highlighting its 90° electrically adjustable lens for capturing high-resolution footage.

The integrated 4K camera captures high-resolution photos and videos. The lens can be adjusted 90° during flight via the remote control or app to achieve optimal angles. Use the dedicated photo/video button on the remote or within the app.

6.4.3 Brushless Motor and Wind Resistance

The F405 features four brushless motors, providing powerful performance, higher flight speeds, and reduced noise compared to brushed motors. These motors contribute to a longer lifespan and enable stable flight even in Level 4 windy conditions.

6.4.4 Optical Flow Positioning

Optische Stroom Positionering

Zorgt ervoor dat de drone zijn positie kan behouden zonder dat de piloot hoeft te manoeuvreren, wat helpt bij stabieler vliegen en het vliegen voor beginners gemakkelijk maakt.



Image: A visual representation of optical flow positioning, showing how the drone maintains its position indoors without constant pilot input, enhancing stability for beginners.

With advanced optical flow positioning, the drone can hover stably at a fixed height indoors by analyzing visual information. This technology assists the drone in navigating complex environments, making it user-friendly for beginners.

6.4.5 5GHz WiFi Transmission (FPV)

5GHz WiFi Transmissie

Lever gestabiliseerde en vloeiende live video streaming, u kunt op uw telefoon genieten van een realtime vliegbeeld van het eerste persoonsbeeld.



Image: A person operating the drone remote control with a smartphone attached, showing a live first-person view (FPV) stream from the drone's camera via 5GHz WiFi transmission.

The 5GHz WiFi transmission provides a stable and fluid live video stream to your smartphone, allowing for real-time First Person View (FPV) of your flight.

6.4.6 Intelligent Flight Functions



Kom Met Mij Mee

De drone volgt en legt u automatisch vast, waar u ook beweegt, perfect voor het vastleggen van uw momenten tijdens buitenportretten.



Aangepaste Padvlucht

Creëer uw eigen vliegroutes met behulp van de app door eenvoudigweg het traject op uw smartphone te tekenen.



Cirkel Vlieg

Kies het interessante punt en de drone kan in een cirkelvormig traject vliegen met een diameter van ongeveer 2 meter.

Image: Visual representations of the drone's intelligent flight modes: Follow Me (tracking a subject), Custom Path (flying a pre-drawn route), and Circle Fly (orbiting a point of interest).

- **Headless Mode:** Eliminates the need to distinguish the drone's head direction, making it easier for beginners to control.
- **Altitude Hold:** Maintains a consistent altitude, allowing for stable hovering and easier control.
- **3D Flips:** Perform acrobatic flips with a single button press (ensure sufficient altitude and clear space).
- **Custom Flight Path:** Draw a desired flight path on your smartphone screen, and the drone will follow it automatically.
- **Circle Fly:** The drone will fly in a circular trajectory around a designated point of interest, typically with a diameter of approximately 2 meters.
- **Follow Me:** The drone will automatically follow and capture footage of you, ideal for recording outdoor activities.

6.4.7 Speed Adjustment

3 Snelheden Modus

Met de lage, gemiddelde en hoge 3 snelheden modus kunt u in een comfortabel tempo beginnen en geleidelijk doorstromen naar snellere, meer uitdagende vluchten.



Image: An illustration depicting the FAKJANK F405 drone operating in three distinct speed modes: Low, Medium, and High, offering varied flight experiences.

The F405 offers 3-speed adjustments (Low, Medium, High) to suit different skill levels and flying conditions. Beginners can start with Low speed and gradually progress to faster, more challenging flights.

7. MAINTENANCE

7.1 General Cleaning

- Wipe the drone and remote control with a soft, dry cloth after each use.
- Avoid using harsh chemicals or solvents.
- Keep the camera lens clean for optimal image quality.

7.2 Propeller Replacement

If propellers are damaged, replace them immediately to ensure safe flight.

1. Power off the drone.
2. Use the screwdriver to remove the screw securing the damaged propeller.
3. Carefully remove the damaged propeller.
4. Install a new propeller, ensuring it matches the 'A' or 'B' marking of the motor shaft.
5. Secure with a screw, but do not overtighten.

8. TROUBLESHOOTING

Refer to the table below for common issues and their solutions.

Problem	Possible Cause	Solution
Drone does not respond to remote.	Not paired; low battery; out of range.	Ensure drone and remote are powered on and paired. Charge batteries. Fly within range.
Drone drifts during flight.	Improper calibration; windy conditions.	Perform compass calibration. Avoid flying in strong winds.
Poor camera image quality.	Dirty lens; poor lighting; unstable flight.	Clean the camera lens. Fly in good lighting. Ensure stable flight.
Drone fails to take off.	Low battery; propellers blocked; motors not armed.	Charge batteries. Check for obstructions. Arm motors (joysticks down and out).
App connection issues.	Incorrect WiFi connection; app not updated.	Connect to the drone's WiFi network. Update the app to the latest version.

9. SPECIFICATIONS

Key technical specifications for the FAKJANK F405 GPS Drone:

Feature	Detail
Brand	FAKJANK
Model Name	F405
Product Dimensions	22 x 19 x 5 cm
Item Weight	206 g

Feature	Detail
Video Capture Resolution	4K
Connectivity Technology	5G WiFi
Control Type	Remote Control
Battery Type	Lithium-polymer (included)
Motor Type	Brushless
Wind Resistance Level	Level 4
Special Features	GPS Auto Return, Optical Flow Positioning, Headless Mode, Altitude Hold, 3 Speed Modes, 3D Flips, Custom Flight Path, Circle Fly, Follow Me

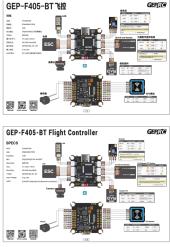
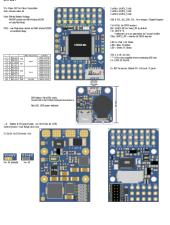
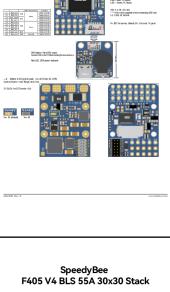
10. WARRANTY AND SUPPORT

FAKJANK products are designed for reliability and performance. For warranty information, please refer to the terms and conditions provided at the time of purchase or contact your retailer. If you encounter any issues or require technical assistance, please reach out to FAKJANK customer support through the contact information provided on the product packaging or the official FAKJANK website.

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Related Documents - F405

	<p><u>FLYWOO Explorer LR4 Quad O3: Guida Completa e Specifiche</u></p> <p>Scopri il drone FLYWOO Explorer LR4 Quad O3 con unità DJI O3. Questa guida dettagliata copre specifiche, configurazione, diagrammi di cablaggio, procedure di binding del ricevitore, impostazioni della modalità, GPS rescue, funzione buzzer e aggiornamenti firmware.</p>
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	<p><u>GEPRC GEP-F405-BT Flight Controller Specifications and Wiring Guide</u></p> <p>Technical specifications and connection diagrams for the GEPRC GEP-F405-BT Flight Controller, detailing its MCU, gyro, OSD, and peripheral interfaces for FPV drone builds.</p>
	<p><u>GEPRC GEP-F405-HD v2 Flight Controller: Specs, Wiring, and Features</u></p> <p>Detailed technical specifications, connection diagrams, and feature overview for the GEPRC GEP-F405-HD v2 flight controller. Learn about its MCU, IMU, BEC, and integration with FPV cameras, ESCs, receivers, and DJI digital systems.</p>
	<p><u>FAKJANK F415 Drone Instruction Manual</u></p> <p>Comprehensive instruction manual for the FAKJANK F415 drone, covering setup, flight controls, functions, safety precautions, battery care, app control, and troubleshooting.</p>
	<p><u>Matek F405-WMO Flight Controller: Wiring, Layout, and Pin Mapping Guide</u></p> <p>This document details the Matek F405-WMO flight controller, providing an overview of its layout, essential wiring configurations for both fixed-wing (Plane) and VTOL aircraft, and comprehensive pin mapping for ArduPilot and INAV firmware. Includes power, sensor, and peripheral connections.</p>
 <p>SpeedyBee F405 V4 BLS 55A 30x30 Stack User Manual</p> <p>Contents (Click on any section to jump)</p> <ul style="list-style-type: none"> • Part 1 - Overview <ul style="list-style-type: none"> • System Overview • Components • Package • Power Connection • Part 2 - SpeedyBee F405 V4 Flight Controller • Part 3 - SpeedyBee BLS 55A 30x30 ESC • Part 4 - SpeedyBee BLS 55A 30x30 TEC • Layout • Connection with Motors & Power Cable • ESC Configuration • ESC Firmware Update • SpeedyBee Update 	<p><u>SpeedyBee F405 V4 BLS 55A 30x30 Stack User Manual</u></p> <p>User manual for the SpeedyBee F405 V4 Flight Controller and BLS 55A 4-in-1 ESC stack. Covers overview, specifications, package contents, connection methods, FC and ESC configuration, and firmware updates.</p>

Documents - FAKJANK – F405

[pdf] User Manual

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3

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Guangzhou Feijian Trading Co., Ltd
Room 502, No. 35-2 Zhengshan 8th Road, Liwan District, Guangzhou City, China

Date: 2025/6/23

Dear Sir/Madam,
We, Guangzhou Feijion Trading Co., Ltd. Herby declares the following statement, PCB board circuit structure and internal of these model (s) are the same. Only model number is different.

Sincerely,

Deng Yaqiao

Name/Title: Deng Yaoyao / Manager
Company: Guangzhou Feijian Trading Co., Ltd.
Address: Room 502, No. 35-2 Zhongshan 8th Road, Liwan District, Guangzhou, China
Phone: 020-8725378
Fax: N/A
E-Mail: kunjunk@163.com

[pdf] Declaration of Conformity

EMC Declaration Letter of Model Difference Guangzhou Feijian Trading Co Ltd FJ1017 Drone
2BOLVFJ1017 f1017

Guangzhou Feijian Trading Co., Ltd Room 502, No. 35-2 Zhongshan 8th Road, Liwan District, Guangzhou ... same, Only model number is different for these model: Product name: Drone Model no.: K600GPS, F400, **F405**, F410, F411, F412, F413, F415, F416, F417, F418, F419, F420, F420, F440, F450, F460, F470, F480

lang:tl score:19 filesize: 312.1 K page_count: 1 document_date: 2025-06-23

	AS A Get No. 54321
TEST REPORT	
<p>Report Number : TZ0035250337FRF08 Product Name : Drone Model/Type reference : Refer to section 1.2 of this report FCC ID : 2BOLVFJ1710 Prepared for : Guangzhou Feijian Trading Co., Ltd Room 502, No. 35-2 Zhongguan 8th Road, Liwan District, Guangzhou City, China</p>	
<p>Prepared By : Shenzhen Tonghong Testing Co., Ltd 1st Floor, Building 1, Haimai High-tech Park, Huaqiang Road 387, Daliang Street, Longhua, Shenzhen, China</p>	
<p>Standards : FCC CFR Title 47 Part 15C, ANSI C63.10-2013 Date of Test : 2025-04-14 ~ 2025-05-08 Date of Issue : 2025-05-09</p>	
<p>Prepared by : Nancy Li Reviewed by : Allen Lai Approved by : Max Zhang (Authorized Officer)</p>	
	
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[pdf] Test Report

EMC Radio Report NII 3 Test Guangzhou Feijian Trading Co Ltd FJ1710 Drone 2BOLVFJ1710 f1j1710

TEST REPORT Report Number : TZ0035250337FRF08 Product Name : Drone

Model/Type reference : Refer ... e EUT Product Name : Drone Trade Mark Model

Number Model Declaration : fakjank K600GPS, F400, **F405**, F410, F411, F412, F413, F415, F416, F417, F418, F419, F420, F430, F440, F450, F460, F470, F480...

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TEST REPORT	
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<p>Prepared By : Shenzhen Tonghong Testing Co., Ltd 1st Floor, Building 1, Haimai High-tech Park, Huaqiang Road 387, Daliang Street, Longhua, Shenzhen, China</p>	
<p>Standards : FCC CFR Title 47 Part 15C, ANSI C63.10-2013 Date of Test : 2025-04-14 ~ 2025-05-08 Date of Issue : 2025-05-09</p>	
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EMC 55087 Radio Report SRD Guangzhou Feijian Trading Co Ltd FJ1710 Drone 2BOLVFJ1710 f1j1710

TEST REPORT Report Number : TZ0035250337FRF12 Product Name : Drone

Model/Type reference : Refer ... e EUT Product Name : Drone Trade Mark Model

Number Model Declaration : fakjank K600GPS, F400, **F405**, F410, F411, F412, F413, F415, F416, F417, F418, F419, F420, F430, F440, F450, F460, F470, F480...

lang:en **score:9** filesize: 3.23 M page_count: 32 document date: 2025-06-23

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TEST REPORT	
<p>Report Number : TZ0035250337FRF07 Product Name : Drone Model/Type reference : Refer to section 1.2 of this report FCC ID : 2BOLVFJ1017 Prepared for : Guangzhou Feijian Trading Co., Ltd Room 502, No. 35-2 Zhongguan 8th Road, Liwan District, Guangzhou City, China</p>	
<p>Prepared By : Shenzhen Tonghong Testing Co., Ltd 1st Floor, Building 1, Haimai High-tech Park, Huaqiang Road 387, Daliang Street, Longhua, Shenzhen, China</p>	
<p>Standards : FCC CFR Title 47 Part 15C, ANSI C63.10-2013 Date of Test : 2025-04-14 ~ 2025-05-08 Date of Issue : 2025-05-09</p>	
<p>Prepared by : Nancy Li Reviewed by : Allen Lai Approved by : Max Zhang (Authorized Officer)</p>	
	
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[pdf] Test Report

Radio Report NII 3 Test Guangzhou Feijian Trading Co Ltd FJ1017 Drone 2BOLVFJ1017 f1j1017

TEST REPORT Report Number : TZ0035250337FRF07 Product Name : Drone

Model/Type reference : Refer ... e EUT Product Name : Drone Trade Mark Model

Number Model Declaration : fakjank K600GPS, F400, **F405**, F410, F411, F412, F413, F415, F416, F417, F418, F419, F420, F430, F440, F450, F460, F470, F480...

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