KIDOMO F03

KIDOMO F03 Drone User Manual

Model: F03

1. Product Overview

The KIDOMO F03 Drone is a foldable RC quadcopter equipped with a 4K GPS camera, designed for ease of use and stable flight. It features a brushless motor for extended lifespan, dual cameras for versatile shooting, and advanced GPS and Optical Flow positioning for precise control and automatic return functions. This manual provides essential information for safe operation, maintenance, and troubleshooting.

Figure 1: KIDOMO F03 Drone, remote controller, and two modular batteries.

2. Safety Guidelines

Always prioritize safety when operating the drone. Failure to follow these guidelines may result in injury, damage to the drone, or property damage.

- **Pre-Flight Check:** Ensure all components are securely attached, batteries are fully charged, and propellers are free from damage before each flight.
- **Environmental Conditions:** Avoid flying in strong winds, rain, snow, or fog. Maintain a clear line of sight to the drone at all times.
- **Flight Area:** Fly in open areas away from people, animals, buildings, and power lines. Do not fly near airports or restricted airspace.
- **Battery Safety:** Use only original KIDOMO batteries and chargers. Do not overcharge or puncture batteries. Store batteries in a cool, dry place.
- **Propeller Safety:** Keep hands, face, and loose clothing away from rotating propellers.
- **Responsible Operation:** Do not operate the drone under the influence of alcohol or drugs. Respect privacy and local regulations.

3. Package Contents

Verify that all items are present in your package:

- KIDOMO F03 Drone
- Remote Controller
- 2 x Lithium Polymer Batteries (7.4V 2200mAh)
- USB Charging Cable
- Spare Propellers (quantity may vary)
- Screwdriver
- User Manual

Figure 2: Folded dimensions of the KIDOMO F03 Drone (approx. 13cm x 16cm x 5cm).

4. Setup Guide

4.1. Charging the Batteries

Before first use, fully charge both drone batteries and the remote controller battery (if applicable).

1. Connect the USB charging cable to the drone battery.
2. Plug the other end of the USB cable into a 5V/2A USB power adapter (not included).

3. The indicator light on the battery will be green during charging and will turn off when fully charged.
4. Charging time is approximately 3-4 hours per battery.

Figure 3: The 7.4V 2200mAh Li-ion modular batteries provide up to 56 minutes of total flight time.

4.2. Installing Drone Batteries

- Ensure the drone is powered off.
- Insert a fully charged battery into the battery compartment on the drone until it clicks into place.

4.3. Unfolding the Drone

- Gently unfold the front arms first, then the rear arms until they are fully extended.
- Ensure all arms are locked into position before flight.

4.4. Remote Controller Setup

- Install 3 x AA batteries (not included) into the remote controller.

- Pull out the phone holder and securely mount your smartphone.

4.5. App Installation and Connection

- Scan the QR code in the manual (or search "KIDOMO F03 App" on your app store) to download the official control application.
- Turn on the drone and then the remote controller.
- On your smartphone, connect to the drone's Wi-Fi network (e.g., "KIDOMO-F03-XXXX").
- Open the app. The app should automatically connect to the drone, displaying the live camera feed.

5. Operating Instructions

5.1. Pairing and Calibration

1. Place the drone on a flat, level surface.
2. Power on the drone, then the remote controller.
3. Push the left joystick up then down to pair the remote with the drone. The drone lights will stop flashing and become solid.
4. Perform gyroscope calibration by pushing both joysticks to the bottom-right corner simultaneously until the drone lights flash rapidly and then become solid.
5. Perform compass calibration (for GPS mode):
    - Press the GPS calibration button on the remote (refer to remote diagram in app).
    - Hold the drone horizontally and rotate it 360 degrees until the lights change.
    - Hold the drone vertically with the camera facing down and rotate it 360 degrees until the lights become solid. Calibration is complete.

5.2. Take-off and Landing

- **One-Key Take-off:** Press the one-key take-off/landing button on the remote or in the app. The drone will automatically ascend to a safe height.
- **Manual Take-off:** Push both joysticks to the bottom-left/right corners (depending on model) to arm the motors. Then slowly push the left joystick up to ascend.
- **One-Key Landing:** Press the one-key take-off/landing button again. The drone will automatically descend and land.
- **Emergency Stop:** In an emergency, press and hold the one-key landing button for 3 seconds to immediately stop the motors. Use only in emergencies.

5.3. Flight Modes and Features

The KIDOMO F03 drone offers various intelligent flight modes:

- **GPS Positioning Mode:** Provides precise outdoor positioning, stable hovering, and accurate return-to-home functions. Essential for intelligent flight modes.
- **Optical Flow Positioning Mode:** Ideal for indoor flight or areas without GPS signal. Uses a downward-facing camera to maintain position.

Figure 4: The drone utilizes Optical Flow Positioning for stable indoor flight and GPS Positioning for precise outdoor flight.

- **Automatic Return (RTH):**
  - **Smart RTH:** Press the Return-to-Home button on the remote or in the app. The drone will return to its recorded take-off point.
  - **Low Battery RTH:** The drone will automatically return when the battery is critically low.
  - **Signal Loss RTH:** If the connection between the drone and remote is lost, the drone will automatically return to the take-off point.

Figure 5: GPS precise localization ensures the drone can automatically return home under various conditions.

- **Follow Me Mode:** In GPS mode, enable "Follow Me" in the app. The drone will automatically follow the remote controller (and thus the user's smartphone) at a set distance.
- **Surround Mode (Point of Interest):** In GPS mode, select a point of interest in the app. The drone will circle around that point at a specified radius and altitude.
- **Waypoint Flight (Trajectory Flight):** Draw a path on the map in the app. The drone will automatically fly along the designated route.

Figure 6: The drone's intelligent flight modes, such as Follow Me and Waypoint Flight, allow for dynamic aerial photography.

5.4. Camera Operation

The F03 drone features a dual-camera system:

- **4K Front Camera:** Captures high-resolution photos and videos. The camera angle can be adjusted remotely from 0-90 degrees via the app or remote controller.
- **480P Bottom Camera:** Used for Optical Flow Positioning and can also capture images/videos from a different perspective.

Figure 7: The drone features a 4K front camera with 90-degree adjustable angle and a 480P bottom camera.

- **Taking Photos:** Press the photo button on the remote or in the app.
- **Recording Videos:** Press the video button on the remote or in the app to start/stop recording.
- **Media Storage:** Photos and videos are saved directly to your smartphone via the app.

6. Maintenance

- **Cleaning:** Use a soft, dry cloth to clean the drone body and camera lenses. Do not use liquid cleaners.
- **Propeller Inspection:** Regularly check propellers for cracks, bends, or damage. Replace damaged propellers immediately using the provided screwdriver.
- **Motor Care:** The brushless motors are designed for durability. Keep them free from dust and debris.
- **Battery Storage:** If storing the drone for an extended period, charge batteries to approximately 50-60% and store them in a cool, dry place. Remove batteries from the drone and remote controller.

- **Firmware Updates:** Check the official KIDOMO website or app for any available firmware updates to ensure optimal performance.

7. Troubleshooting

Problem	Possible Cause	Solution
Drone does not power on.	Battery not charged or not inserted correctly.	Ensure battery is fully charged and securely inserted.
Remote controller does not connect.	Remote batteries low; not paired correctly.	Replace remote batteries; re-pair drone and remote (Section 5.1).
Drone drifts during flight.	Gyroscope not calibrated; strong wind.	Perform gyroscope calibration (Section 5.1); avoid flying in strong winds.
No live video feed in app.	Not connected to drone's Wi-Fi; app not open.	Ensure phone is connected to drone's Wi-Fi; restart app.
GPS signal weak/unavailable.	Flying indoors or in an area with obstructions.	Move to an open outdoor area; ensure clear sky view.
Drone does not respond to commands.	Out of range; signal interference; low battery.	Fly within range (max 1000m); avoid areas with strong interference; check drone battery level.

8. Specifications

Model	F03
Brand	KIDOMO
Dimensions (Folded)	Approx. 13 x 16 x 5 cm
Weight	950 g
Flight Time	Up to 56 minutes (with 2 batteries)
Battery Type	7.4V 2200mAh Lithium Polymer
Charging Time	Approx. 3-4 hours per battery
Control Range	Up to 1000 meters
Video Resolution	4K (Front Camera), 480P (Bottom Camera)
Connectivity	5G FPV Wi-Fi, APP Control
Motor Type	Brushless Motor
Positioning System	GPS, Optical Flow Positioning

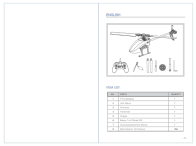
9. Warranty and Support

KIDOMO products come with a standard manufacturer's warranty. Please refer to the warranty card included in your package for specific terms and conditions. For technical support, troubleshooting assistance, or warranty claims, please contact KIDOMO customer service:

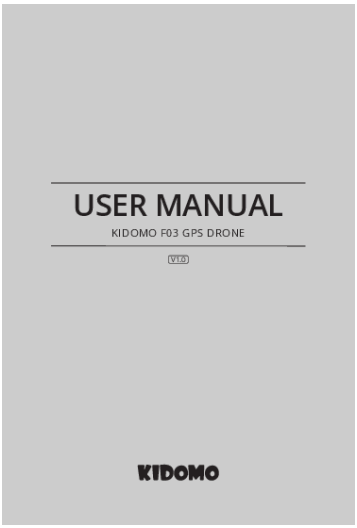
- **Email:** support@kidomo.com
- **Website:** www.kidomo.com
- Please have your model number (F03) and purchase date ready when contacting support.

Related Documents - F03

	KIDOMO F03 GPS Drone User Manual This user manual provides comprehensive instructions for operating the KIDOMO F03 GPS Drone, including pre-flight preparation, flight controls, safety precautions, and troubleshooting.
	KIDOMO F02 Mini Foldable Drone User Manual Comprehensive user manual for the KIDOMO F02 Mini Foldable Drone, covering setup, operation, safety, maintenance, and troubleshooting for a safe and enjoyable flying experience.
	KIDOMO F03 GPS Drone User Manual This user manual provides comprehensive instructions for operating the KIDOMO F03 GPS Drone, including pre-flight preparation, flight controls, safety precautions, and troubleshooting.
	KIDOMO F02 Mini Foldable Drone User Manual Comprehensive user manual for the KIDOMO F02 Mini Foldable Drone, covering setup, operation, safety, maintenance, and troubleshooting for a safe and enjoyable flying experience.

	[Eachine E130/RotorScale F03 RC Helicopter User Manual & Guide] Comprehensive user manual for the Eachine E130/RotorScale F03 RC helicopter, covering setup, operation, safety precautions, troubleshooting, and accessories. Learn to fly with detailed instructions and diagrams.
	[Bosch Alarm Wiring Guide 3000i: Product Models and Technical Diagrams] Detailed wiring guide for Bosch FLEXIDOME and DINION IP 3000i series cameras, covering alarm input/output and audio I/O pin assignments, with circuit diagrams for alarm input and output.

Documents - KIDOMO – F03



[KIDOMO F03 GPS Drone User Manual]

This user manual provides comprehensive instructions for operating the KIDOMO F03 GPS Drone, including pre-flight preparation, flight controls, safety precautions, and troubleshooting.

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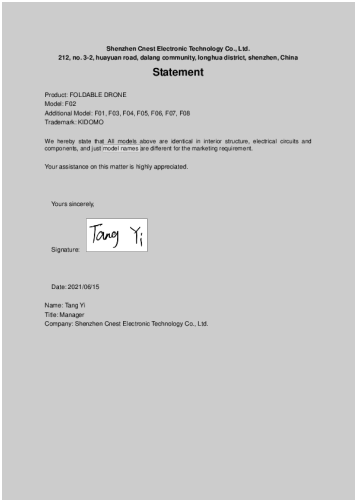

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Statement USER model difference letter Shenzhen Cnest Electronic Technology Co Ltd F02 FOLDABLE DRONE 2AYD2 2AYD2F02 f02

Shenzhen Cnest Electronic Technology Co., Ltd. 212, no. 3-2, huayuan road, dalang community, longhua district, shenzhen, China Statement Product: FOLDABLE DRONE Model: F02 Additional Model: F01, **F03**, F04, F05, F06, F07, F08 Trademark: KIDOMO We hereby state that All models above are identical in int...

lang:tl score:17 filesize: 12.7 K page_count: 1 document date: 2021-06-15

TCT 通测检测

TEST REPORT

FCC ID. ..... :	2AYD2-F02
Test Report No. ..... :	TCT210526E011
Date of issue. ..... :	Jun. 10, 2021
Testing laboratory ..... :	SHENZHEN TONGCE TESTING LAB
Testing location/ address:	TCT Testing Industrial Park Fuqiao 5th Industrial Zone, Fuhai Street, Bao'an District Shenzhen, Guangdong, 518103, People's Republic of China
Applicant's name. ..... :	Shenzhen Cnest Electronic Technology Co., Ltd.
Address. ..... :	212, no. 3-2, huayuan road, dalang community, longhua district, shenzhen, China
Manufacturer's name ... :	Shenzhen Cnest Electronic Technology Co., Ltd.
Address. ..... :	212, no. 3-2, huayuan road, dalang community, longhua district, shenzhen, China
Standard(s) ..... :	FCC CFR Title 47 Part 15 Subpart C Section 15.247 FCC KDB 558074 D01 15.247 Meas Guidance v05r02 ANSI C63.10:2013
Test item description ..... :	FOLDABLE DRONE
Trade Mark ..... :	KIDOMO
Model/Type reference..... :	F02, F01, F03, F04, F05, F06, F07, F08
Rating(s) ..... :	Rechargeable Li-ion Battery DC 3.7V
Date of receipt of test item ..... :	May. 26, 2021
Date (s) of performance of test. ..... :	See dates for each test case
Tested by (+signature) ... :	Brews Xu
Check by (+signature).... :	Beryl Zhao
Approved by (+signature):	Tomsin

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[pdf] Test Report

Microsoft Word TCT210526E011 FCC ID 15 247 WIFI Administrator DTS P1 Shenzhen Cnest Electronic Technology Co Ltd F02 FOLDABLE DRONE 2AYD2 2AYD2F02 f02

TEST REPORT FCC ID. ..... : 2AYD2-F02 Test Report No..... : TCT2 ... : FOLDABLE DRONE Trade Mark ..... : KIDOMO Model/Type reference..... : F02, F01, **F03**, F04, F05, F06, F07, F08 Rating s ..... : Rechargeable Li-ion Battery DC 3...

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