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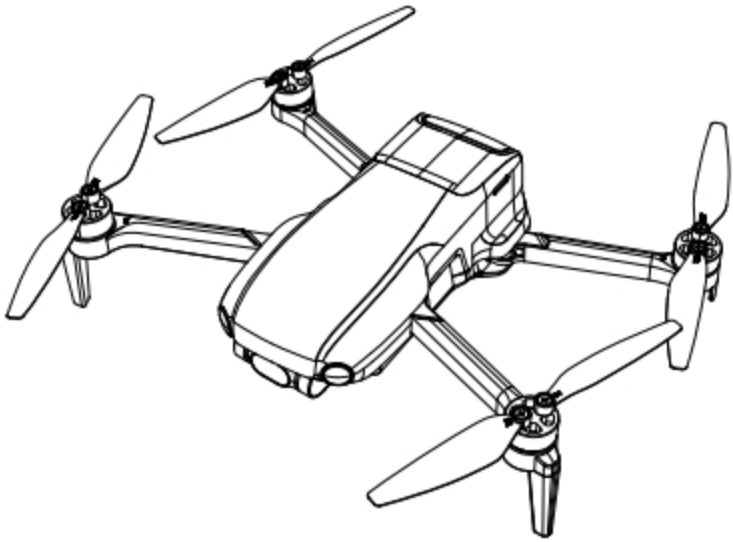
User Manual

v1.0



F7MINI 4K

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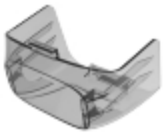
1.Product List

Drone

Remote Controller

Intelligent Flight Battery



Camera Cover

Spare Propeller

USB Charging Cable

Screwdriver

Screw

Joystick

Micro USB connector

USB-C connector

Lightning connector

User Manual

Quick Start Guide

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2.Requirements of Flight Environment

- Flight Safety.

Sunny ✓ | Windless ✓ | Strong GPS Signal ✓ | Maintain Line of Sight ✓ | Fly Below 390ft ✓

- It is recommended to fly in an open space with a radius of at least 33 feet and no obstacles. High-voltage power lines and communication towers can interfere with control signals; avoid flying near these areas.

- Do not fly over or near crowds. Avoid flying in extreme weather conditions such as high or low temperatures, or during thunderstorms and heavy rain.

Approach Obstacles ✗ | Approach the signal tower ✗ | Soar over the crowed ✗ | High temperature ✗ | Low temperature ✗

Lightning ✗ | Snow ✗ | Rain ✗ | Fog ✗ | Windy ✗

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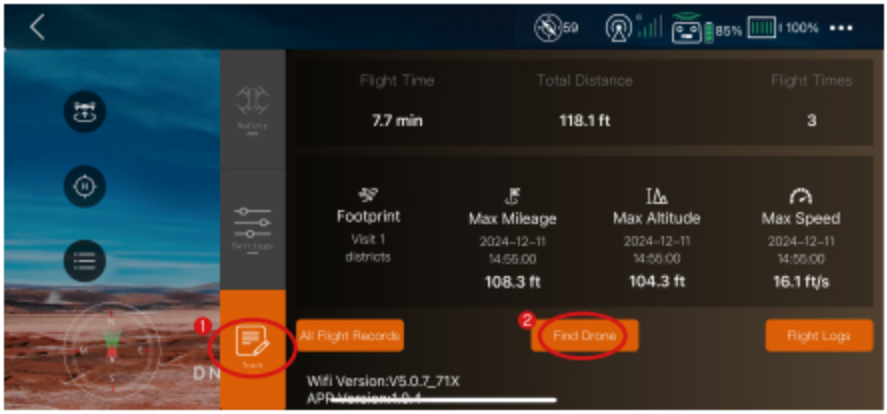
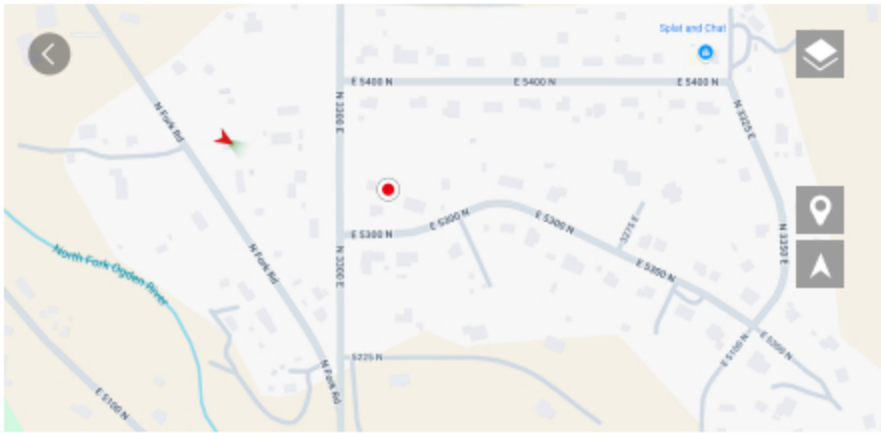
3.Find Drone





- You can tap "Track" and then "Find drone" in the App settings to view the location of the last time your phone connected to the drone.

- Note: The phone needs to be connected to the Internet to cache map data.

My Location	Drone Location
Tap to select "My Location"	Tap to select "Drone Location"
Tap to switch three layers of map	

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4.Precautions and Maintenance for the Intelligent Battery

- Please fully charge the battery for the first time before using it.
- It is recommended to charge and discharge it once a month, do not store it fully charged, keep 50%-60% of the charge, the storage temperature is 10-40°C, and the best storage temperature is 19-21°C.
- Water enters the battery and the battery protection board fails, which will cause the battery not to be used normally. Do not use the battery in rain or in a humid environment, as this may cause the battery to self-ignite or even explode.
- If the battery has been squeezed, deformed, or dropped from a high altitude, do not use it again.
- Do not expose the battery to high temperatures for extended periods. Excessive heat may increase internal pressure and lead to an explosion.
- If the aircraft has not been used for a month, remove the battery to prevent prolonged low-power discharge.

⚠ • Use 5V/3A charging plugs. Fast charging plugs exceeding 5V/3A are prohibited.

USB Adapter
(5V/3.0A)

(Not included)

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⚠ • It is prohibited to use computer USB, simple USB, and non-original charging cables for charging.

Original charging cable

Computer USB

Non-original charging cables

⚠ • Please remove the battery in time after the aircraft has landed on low power to avoid battery damage caused by battery over-discharge.

• It is forbidden to overcharge the battery, please remove charging cable in time after fully charged to avoid damage due to overcharge.

Charging Time= 3 hours

Overcharge>3 hours

Overheating warning

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5.Flight Operation Guidelines

5.1 Pre-Flight Checklist

- Ensure that the remote controller, smart flight battery, and mobile device have sufficient power.
- Make sure the aircraft's arms are fully extended.
- Ensure the battery compartment cover is securely fastened and the smart flight battery is properly installed.
- Check that the propellers are not damaged, worn, or deformed, and that there are no foreign objects tangled in them. Ensure they are securely installed.
- Make sure GPS is enabled to avoid losing signal, and fly outdoors in an open area.
- Ensure your phone is properly connected to the controller. Pull out the phone holder, then insert the cable into the Type-C port at the top of the controller for data connection. Do not use the charging port on the side for data connecting, as this will prevent image transmission.
- After powering on, verify that all four motors start normally and that their speeds are consistent.
- Ensure the camera is clean.
- If replacing parts, always use original manufacturer components. Using non-original parts can pose a risk to the safe operation of the aircraft. For details on supported accessories, refer to the accessories support page in the appendix of the user manual.

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5.2 Operation Safety Guidelines

- Please unfold the arms of the aircraft and turn on the power before flying.
- Please pay attention to the direction of the aircraft when flying. The direction of the camera indicates the front of the aircraft.
- Do not answer calls, or text messages, or do anything that may distract you from operating your mobile phone to control the aircraft during the flight.
- Make sure that you are not under the influence of alcohol, drugs, or anesthesia, nor are you experiencing dizziness, fatigue, nausea, or any other conditions, which may impair your ability to operate the aircraft safely.
- Be sure to set the correct Return-to-Home (RTH) altitude before each flight. Ensure that your phone is correctly connected to the remote controller, with all necessary permissions enabled.
- Make sure to fly outdoors in an environment with strong GPS signals.
- When the aircraft has a sufficient GPS signal, it will remain in GPS mode and cannot switch to Attitude Mode. If GPS signal acquisition is not completed, you can manually switch to Attitude Mode by pressing and holding the compass button on the remote controller.
- After turning off the GPS, the one-button return to home, low power return, GPS follow, surround mode, route planning, and aircraft finding functions are unavailable. Flight may become unstable, requiring users to have certain operational skills and proficiency.
- Calibrate the compass and gyroscope before each flight. Otherwise, the aircraft may not function properly.
- Always maintain manual control of the aircraft during flight. Do not rely solely on the Bwine GPS App.
- GPS flight assistance features and App are only used to assist the pilot and cannot replace the pilot in controlling the aircraft. Please pay attention to the flight and operate the aircraft carefully to avoid hitting obstacles when returning.

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6.FCC Safety and Disclaimer

Radiation Exposure Statement

- To maintain compliance with FCC's RF Exposure guidelines, this equipment should be installed and operated with a minimum distance of 20cm from your body.

- This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

- Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

- Note:
  This device has been confirmed to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.
  This device may generate and radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications (which can be determined by turning the device on and off). It is recommended to eliminate the interference using the following methods:
  -- Reorient or relocate the receiving antenna.
  -- Increase the separation between the equipment and receiver.
  -- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
  -- Consult the dealer or an experienced radio/TV technician for help.

- This device and its antenna(s) must not be co-located or operated in conjunction with any other antenna or transmitter.

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7.Disclaimer and Warning

- This product is NOT a toy and is NOT suitable for individuals under the age of 14. Keep the drone out of the reach of children and exercise caution when operating it around them.

- This product is a flying camera designed for easy flight when properly maintained. Read all accompanying materials before using the drone for the first time. These documents are included in the product package. It is recommended to operate the drone in GPS mode in an open outdoor area to familiarize yourself with its controls.

- Improper use of this product could result in personal injury or property damage.

- The information in this document affects your safety and your legal rights and responsibilities. Read this entire document carefully to ensure proper configuration before use. Failure to read and follow the instructions and warnings in this document may result in product loss, serious injury to you, or damage to your aircraft.

- By using this product, you hereby signify that you have read this disclaimer carefully and that you understand and agree to abide by the terms and conditions herein. Please be sure to strictly abide by the specification requirements and safety guidelines stated in this document.

- You agree to use this product only for purposes that are proper and in accordance with local regulations, terms and all applicable policies, and guidelines Bwine may make available.

- Any personal injury property damage, legal disputes, and all other adverse events caused by the violation of the safety instructions or due to any other factors, WILL NOT be Bwine's responsibility.

- Bwine reserves the right to update this disclaimer and safety guidelines.

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1 Using This Manual

1.1 Legend

Recommend Warning Hints & Tips Reference

1.2 Recommendations

- BWINE F7MINI 4K provides users with instructional videos and the following documents:

  1.*User Manual*
  2.*Quick Start Guide*

- It is recommended that users first watch the instructional video and then read the ***Quick Start Guide*** to understand the use process. Please read the ***User Manual*** for more details.

1.3 Download Bwine GPS App

- Make sure to use Bwine GPS App during flight. Scan the QR code or Search in the application store to download "Bwine GPS".

- Bwine GPS App is compatible with Android 6.0 or above, iOS 10.0.2 or above.

(For Android)

(For iOS)

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1.4 Video Tutorials

- Please visit our product link or scan the above YouTube QR code to watch the tutorial video of this drone or contact our after-sales service for more technical support and learn how to use the aircraft safely.

2 Product Profile

2.1 Introduction

- F7MINI 4K could hover and fly stably indoors and outdoors, with RTH function. The camera uses an upgraded 5GHz Wi-Fi FPV real-time transmission function, equipped with an 85° FOV lens and a 90° adjustable camera, which can stably shoot 4K HD video and 8K ultra-clear images, providing you with a broad field of vision for unforgettable moments.

2.2 Feature Highlights

- The F7MINI 4K drone features a foldable design, an ultra-lightweight body, and weighs less than 249 grams, so FAA certification is not required. It is portable, easy to operate, and allows for one-tap photo and video capture.

- F7MINI 4K's leading flight control system provides agile, stable and safe flight performance. The RTH function enables the aircraft to automatically return to the return point and land even when the remote control signal is lost or the power is insufficient.

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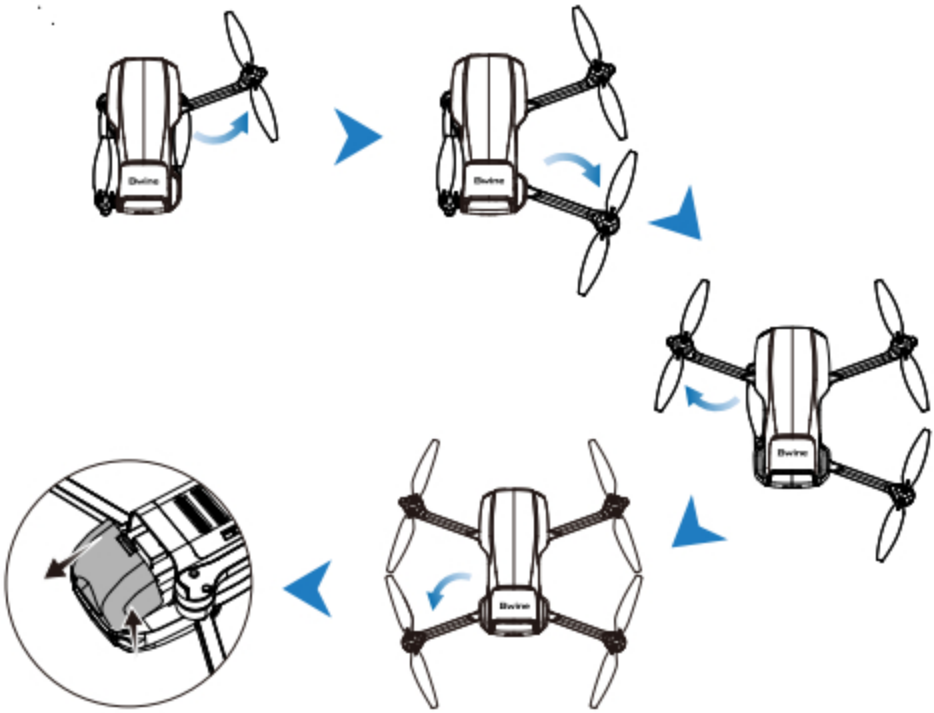
2.3 Preparing the Aircraft

- All propellers are folded before the aircraft is packaged. Follow the steps below to prepare the aircraft.

1. Unfold the front arms;
2. Unfold the rear arms, then extend all propellers;
3. Remove the camera cover from the aircraft's camera.



⚠

1. Unfold the front arms before unfolding the rear arms.

2. Before powering on the aircraft, ensure that the front and rear arms are extended and the aircraft is placed on the horizontal ground.

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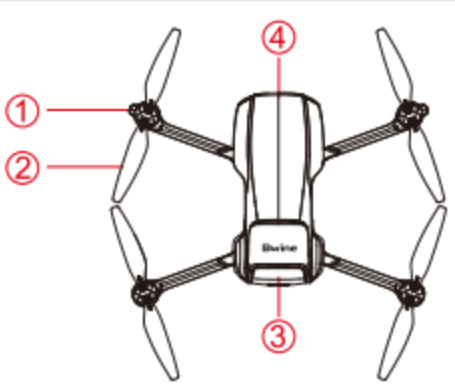
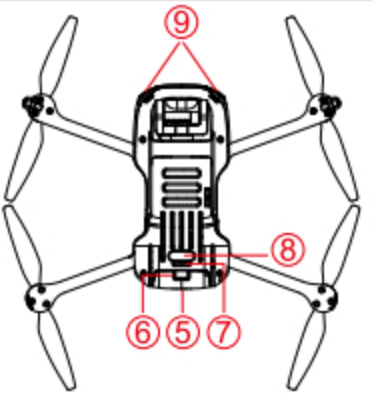
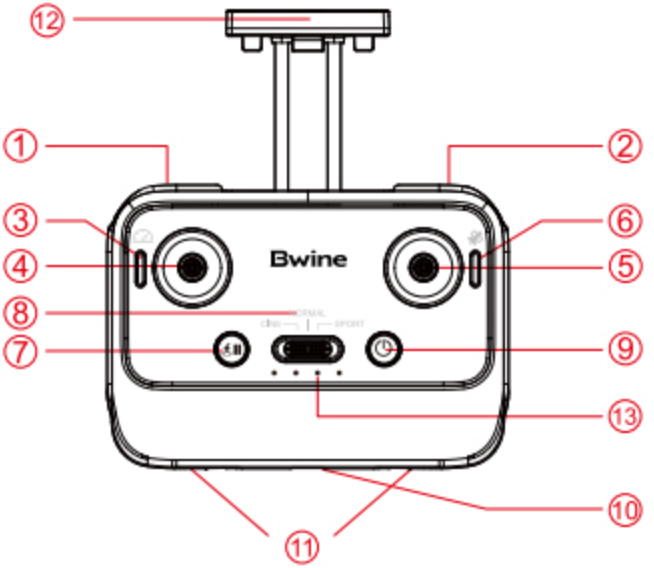
2.4 Aircraft Diagram





① Motor
② Propellers
③ Battery
④ Camera
⑤ Power Indicator Light
⑥ Power Button
⑦ Drone Status Indicator Light
⑧ Optical Flow Lens/TOF
⑨ LED Light



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1.Gimbal Dial

2.Take Photo/Video
Short press once to take a picture.
Long press once to start recording mode, repeat to stop recording.

3.Cruise Control Function
Operate the remote control joystick and briefly press this button, then release the joystick, the drone will automatically fly at a constant speed according to the control direction.

4.Left Control Joystick
(American control joystick)The left control joystick can adjust the aircraft's altitude and nose direction (Up/Down, Left Rotation/Right Rotation).

5.Right Control Joystick
(American control joystick)The right control joystick can adjust the aircraft's flight direction (forward/backward/left/right).

6.One-touch Adjustment of the Gimbal/Flight Mode Switch
① Short press the button to adjust the camera with one press.
② Long press the button to switch flight mode.

7.One Key Return
①Short press: the drone automatically returns to the take-off position (due to GPS signal problems, the landing position may slightly deviate from the take-off position, the deviation range is about 9.84ft in diameter); short press once during the return to cancel the intelligent return.
② Long press: turn on the drone buzzer (can only be turned on when the motor is not started).

8.Speed Adjustment (3 speed in total)
Left: low-speed
Middle: medium speed
Right: high speed

9.Power Switch
Long press to turn on the power, repeat to turn off.

10.Charging Hole

11.Joystick Storage Hole

12.Cell Phone Holder

13.Indicator Light

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