

FIMI MINI3-2

FIMI Mini 3 GPS Drone User Manual

Model: MINI3-2 | Brand: FIMI

INTRODUCTION

This manual provides essential instructions for the safe operation, setup, and maintenance of your FIMI Mini 3 GPS Drone. Please read this manual thoroughly before operating the drone to ensure proper usage and to prevent damage or injury.



Image: FIMI Mini 3 drone in flight over a scenic landscape.

SAFETY GUIDELINES

Adherence to safety guidelines is paramount for drone operation. Failure to follow these instructions may result in property damage, injury, or legal penalties.

- **Pre-Flight Check:** Always inspect the drone, remote controller, and batteries for any damage before each flight.
- **Flight Environment:** Operate the drone in open areas, away from people, buildings, trees, and power lines. Avoid flying in strong winds (above Level 5 wind resistance, 38 kph), rain, fog, or snow.
- **Battery Safety:** Use only FIMI-approved batteries and chargers. Do not overcharge or puncture batteries. Discontinue use if batteries show signs of swelling or damage.
- **Respect Privacy:** Be mindful of privacy laws and regulations when capturing images or videos.

- **Local Regulations:** Familiarize yourself with local drone regulations, including altitude limits, no-fly zones, and registration requirements. The FIMI Mini 3, weighing 245g, may be exempt from FAA registration in some regions.
- **Maintain Visual Line of Sight:** Always keep the drone within your visual line of sight during flight.

WHAT'S IN THE BOX

Verify that all components are present upon unboxing:

- FIMI MINI 3 Drone x1
- Remote Controller x1
- Gimbal protector x1
- Battery x2 (Note: Some packages may include more batteries, e.g., 3 for 96 minutes total flight time)
- Screwdriver x1
- Cable (Type C/Lightning) x2
- Spare Propeller x4
- Screw x4
- USB-Cable x1
- Instruction x2
- USB Charger x 1

What's in the Box



Image: All components included in the FIMI Mini 3 package.

SETUP

1. Drone Assembly

1. Unfold the drone arms carefully.
2. Remove the gimbal protector before powering on the drone.
3. Insert a charged battery into the drone until it clicks securely.
4. Attach propellers if not already installed, ensuring correct orientation as indicated in the quick start guide.

2. Battery Charging

Charge the drone batteries and remote controller using the provided USB-C cable and charger. The drone supports USB-C fast charging.

64 MINS MAX FLIGHT TIME

Support **USB Type-C** Fast Charging



Image: Drone battery charging via USB-C, illustrating flight duration.

3. Remote Controller Setup

1. Unfold the remote controller antennas and phone holder.
2. Place your smartphone securely in the holder.
3. Connect your smartphone to the remote controller using the appropriate cable (Type C or Lightning).

4. App Installation

Download and install the FIMI Navi app on your smartphone. This app is required for drone control, real-time video feed, and accessing intelligent flight features.

OPERATING THE DRONE

1. Pre-Flight Checklist

- Ensure batteries are fully charged for both drone and remote controller.
- Check propellers for damage and ensure they are securely attached.
- Verify the gimbal protector is removed.
- Confirm GPS signal acquisition before takeoff.
- Ensure sufficient space for takeoff and landing.

2. Takeoff and Landing

The FIMI Mini 3 features one-key takeoff and landing for ease of use.

- **One-Key Takeoff:** Press the designated button on the remote controller or within the FIMI Navi app. The drone will automatically ascend to a safe altitude.
- **One-Key Landing:** Press the designated button. The drone will descend and land automatically.
- **Precise Landing:** The drone utilizes its downward-facing camera to recognize the launch pad and land directly on it.

Precise landing

The FIMI MINI 3 utilizes its downside camera to recognize the launch pad and land directly on it.



Image: Precise landing feature of the FIMI Mini 3.

3. Flight Modes and Features

The FIMI Mini 3 offers various intelligent flight modes to enhance your flying experience:

- **Visual Tracking:** The drone can automatically track a selected subject, such as a person or vehicle, using advanced SOC technology and AI computing power.
- **Waypoint Flight:** Plan a flight route in the FIMI Navi app, and the drone will automatically follow the designated path.
- **Point of Interest:** The drone can orbit around a specified point, keeping it centered in the frame.
- **Auto Return (RTH):** If the signal is lost or the battery is low, the drone will automatically return to its takeoff point. This feature can also be manually activated.
- **SoLink HD Transmission:** Provides HD real-time video feed up to 9 KM (29000ft) with dual-band (2.4G/5.8G) stability and low latency (120ms).
- **Wind Resistance:** Capable of stable flight in winds up to Level 5 (38 kph).

Visual Tracking

This drone uses advanced SOC technology and 2T of AI computing power, allowing for more precise recognition and tracking of your movements. With a maximum flight speed of 18m/s, it effortlessly captures every adventure you experience.

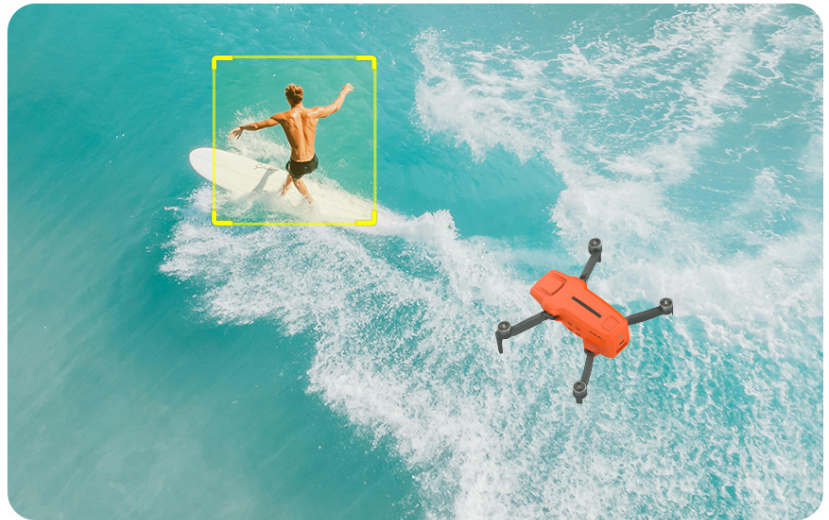


Image: Visual Tracking feature in action, following a moving subject.

Flight Route Planning Shooting

In the Navi Mini app, you can pre-plan the flight route, and the drone can automatically fly along the designated route. It also allows you to playback the flight records.



Image: Flight Route Planning Shooting feature, showing waypoints.

4. Camera Operation

The FIMI Mini 3 is equipped with a powerful camera system for high-quality aerial photography and videography.

- **Sensor:** 1/2-inch 48MP Stacked CMOS sensor.
- **Video Resolution:** Supports 4K/60fps video recording for detailed and smooth footage.
- **Gimbal:** 3-axis mechanical gimbal ensures stable and shake-free images and videos.
- **AI Super Night Video:** An advanced AI ISP chip provides a 400% higher signal-to-noise ratio, enabling clear and detailed video capture in low-light conditions.
- **Digital Zoom:** Features 12X digital zoom. Note that image quality may decrease at higher zoom levels.
- **8K Timelapse:** Capture stunning time-lapse videos with 8000x6000 pixel UHD image quality.

48MP SONY 1/2 INCH CMOS

3-Axis Gimbal,Ultra Stable **4K/60fps** Video



Image: Detail of the 48MP camera and 3-axis gimbal.



AI Super Night Video

Equipped with an AI ISP chip, the signal-to-noise ratio is 400% higher compared to the traditional ISP, which still produces clear and picturesque night scenes in dark light.

Image: AI Super Night Video capturing a clear night scene.

MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your FIMI Mini 3 drone.

- **Propeller Care:** Inspect propellers for cracks, bends, or chips before each flight. Replace damaged propellers immediately using the provided screwdriver and spare parts.
- **Gimbal Protection:** Always reattach the gimbal protector when the drone is not in use or during transport to prevent damage to the camera and gimbal mechanism.
- **Battery Care:** Store batteries in a cool, dry place. Do not store fully charged or fully depleted batteries for extended periods. Charge them to approximately 50-60% for long-term storage.
- **Cleaning:** Use a soft, dry cloth to clean the drone body and camera lens. Avoid using harsh chemicals.
- **Firmware Updates:** Regularly check for and install firmware updates via the FIMI Navi app to ensure the drone has the latest features and performance enhancements.

TROUBLESHOOTING

This section addresses common issues you might encounter with your FIMI Mini 3 drone.

Problem	Possible Cause	Solution
Drone does not power on	Low or uncharged battery; Battery not properly inserted.	Charge the battery fully. Ensure the battery is securely inserted until it clicks.
No video feed in FIMI Navi app	Phone not connected to remote; App not launched; Drone/remote not paired.	Ensure phone is connected to remote. Launch FIMI Navi app. Follow pairing instructions in the quick start guide.
Poor image quality in cold weather	Low-temperature blur (known issue for some units); Gimbal obstruction.	Ensure the imaging module is updated. Avoid flying in extremely cold conditions if issues persist. Check for any obstructions around the gimbal.
Drone drifts during flight	Weak GPS signal; Compass interference; Uncalibrated IMU.	Fly in open areas away from magnetic interference. Perform compass and IMU calibration via the FIMI Navi app. Wait for sufficient GPS satellites before takeoff.
Remote controller signal loss	Out of range; Environmental interference; Low remote battery.	Stay within the 9KM transmission range. Avoid areas with high electromagnetic interference. Ensure remote controller battery is charged. If signal is lost, the drone should initiate Auto Return.

SPECIFICATIONS

Feature	Detail
Brand	FIMI
Model Name	MINI3-2
Item Weight	245 Grams (8.6 ounces)

Feature	Detail
Product Dimensions	7.9"L x 5.7"W x 2.2"H
Camera Sensor	48MP 1/2-inch Stacked CMOS
Video Capture Resolution	4K/2.7K/1080P @ 60fps/50fps/30fps/25fps/24fps
Effective Still Resolution	48 MP
Gimbal	3-axis Stabilized Gimbal
Max Flight Time	Up to 32 minutes per battery (64 minutes with 2 batteries, 96 minutes with 3 batteries)
Battery Capacity	2200 Milliamp Hours (LiPo)
Charging	USB Type-C Fast Charging
Transmission Technology	SoLink HD digital transmission technology (Dual-band 2.4G/5.8G)
Max Transmission Range	9 KM (29000ft)
Wind Resistance	Level 5 (up to 38 kph)
Special Features	Auto Follow, AI Super Night Video, Night Vision Camera, One Button Return, Portable, Foldable, Visual Tracking, Precise Landing, Waypoint Flight, Point of Interest, 12X Digital Zoom, 8K Timelapse
Control Type	Remote Control
Material	Plastic
Age Range	Adult

WARRANTY AND SUPPORT

For warranty information, please refer to the warranty card included with your product or visit the official FIMI website. For technical support, troubleshooting assistance, or to inquire about replacement parts, please contact FIMI customer service through their official channels.

You can often find additional resources, FAQs, and contact information on the FIMI brand store page:[FIMI Store on Amazon](#)

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question

and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question