

IZI Mini X Nano

IZI Mini X Nano 4K Drone User Manual

Model: MiniX_SA

1. INTRODUCTION

This manual provides essential information for the safe operation and maintenance of your IZI Mini X Nano 4K Drone. Please read this manual thoroughly before operating the drone to ensure proper usage and to prevent damage or injury. Keep this manual for future reference.

Safety Guidelines

- Always operate the drone in open areas, away from people, animals, and obstacles.
- Maintain a safe distance from power lines, buildings, and other structures.
- Do not fly in adverse weather conditions such as strong winds, rain, or snow.
- Ensure the drone's battery and remote controller are fully charged before each flight.
- Familiarize yourself with local drone regulations and obtain necessary permits if required.
- Perform pre-flight checks as outlined in this manual.

2. WHAT'S IN THE BOX

Verify that all components are present in the packaging:

- IZI Mini X Nano 4K Drone
- Remote Controller
- Drone Battery (2600mAh)
- Power Adapter
- 4 x Extra Propellers
- USB Cable
- Lightning RC Cable
- Micro USB RC Cable
- Type-C RC Cable

WHAT'S IN THE BOX?



IZI MINI-X



4x Extra Propellers



USB Cable



Remote Controller



Power Adaptor



Drone Battery



Lightning RC Cable



Micro USB RC Cable



Type-C RC Cable

Image: All components included in the IZI Mini X Nano 4K Drone package.



Image: The IZI Mini X Nano 4K Drone and its dedicated remote controller.

3. SETUP

3.1 Charging Batteries

Before first use, fully charge the drone battery and the remote controller. Use the provided power adapter and USB cable. The drone battery has a capacity of 2600mAh, providing up to 31 minutes of flight time.

- Connect the drone battery to the power adapter using the USB cable.
- Connect the remote controller to a power source using the appropriate RC cable (Lightning, Micro USB, or Type-C).
- Indicator lights will show charging status and turn off or change color when fully charged.



Unmatched Flight Time

Best-in-segment **31 Minutes** of continuous flight time on a single battery.



Battery Capacity:
3100 mAh



Flight Time:
31 minutes

Image: The IZI Mini X Nano drone with its battery, emphasizing its 31-minute flight capability.

3.2 Propeller Installation

Ensure propellers are securely attached before flight. Match the propellers with the correct motor arms (indicated by markings on the propellers and motors).

- Unfold the drone arms carefully.
- Attach the propellers by aligning them with the motor shafts and twisting to lock. Refer to the drone's markings for correct placement.

3.3 SD Card Insertion

The drone supports an SD card up to 128 GB (Class 100 UHS-1 recommended) for storing photos and videos.

- Locate the SD card slot on the drone.
- Insert the SD card with the contacts facing down until it clicks into place.

3.4 App Installation and Pairing

Download the IZI Sky Eye App on your smartphone for full control and features.

- Scan the QR code in the quick start guide or search for "IZI Sky Eye" in your app store.
- Install the app and create an account if prompted.
- Power on the drone and the remote controller.
- Connect your smartphone to the remote controller using the appropriate RC cable.
- Open the IZI Sky Eye App and follow the on-screen instructions to connect to the drone.

4. OPERATING THE DRONE

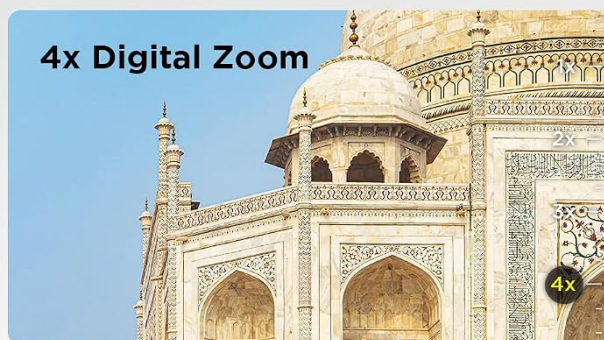
4.1 Pre-Flight Checklist

- Ensure drone and remote batteries are fully charged.
- Check propellers for any damage and ensure they are securely attached.
- Verify the SD card is inserted correctly.
- Choose an open, clear area for flight, away from obstacles and people.
- Check weather conditions; avoid strong winds or precipitation.
- Ensure a strong GPS signal is acquired before takeoff (indicated in the app).

4.2 Takeoff and Landing

After completing the pre-flight checklist and ensuring a stable GPS signal:

- **Automatic Takeoff:** Press the one-key takeoff button on the remote controller or in the app. The drone will ascend to a safe altitude and hover.
- **Manual Takeoff:** Push both joysticks down and outwards to start the motors. Then, slowly push the left joystick up to ascend.
- **Automatic Landing:** Press the one-key landing button. The drone will descend and land automatically at its takeoff point.
- **Manual Landing:** Slowly pull the left joystick down to descend. Once landed, push both joysticks down and inwards to stop the motors.



GPS NAVIGATION & RTH FOR WORRY-FREE FLIGHTS!

- 🎯 One Key Return
- ⚠️ Lost Control Return
- 🔋 Low Battery Return



Image: The remote controller connected to a smartphone, displaying flight controls and drone status.

4.3 Basic Flight Controls

The remote controller uses a standard mode (Mode 2) by default:

- **Left Joystick:** Controls altitude (up/down) and yaw (rotate left/right).

- **Right Joystick:** Controls forward/backward movement and left/right strafing.

4.4 Intelligent Flight Modes

The IZI Mini X Nano offers over 10 intelligent flight modes for enhanced creativity and ease of use. Access these modes via the IZI Sky Eye App.

- **Follow Me:** The drone automatically follows the subject (e.g., the remote controller or a designated target in the app).
- **Waypoint:** Plan a flight path by setting multiple waypoints on the map in the app. The drone will fly along the predefined route.
- **Orbit Mode:** The drone circles around a designated point of interest, keeping it centered in the frame.
- **Gesture Control:** Use specific hand gestures to command the drone for photos or videos.



SKY SHARP PRECISION

The image shows a green and white IZI Mini X Nano drone in flight against a blurred background. The drone has 'ULTRA LIGHT 249g' and 'MINI-X' printed on it. Below the drone, four icons represent its key features: a video camera icon for 4K Ultra HD Resolution, a camera sensor icon for 1/3.06" CMOS Sensor, a camera icon for 20 Megapixel Camera, and a globe icon for 3-Axis Stabilized Gimbal.

	
4K Ultra HD Resolution	1/3.06" CMOS Sensor
	
20 Megapixel Camera	3-Axis Stabilized Gimbal

Image: The IZI Mini X Nano drone in flight, demonstrating its agility and aerial perspective.

4.5 Camera Operation

The drone is equipped with a 4K UHD 20MP camera and a 3-axis stabilized gimbal for clear, shake-free footage.

- **Photo/Video Capture:** Use the dedicated buttons on the remote controller or the app interface to switch between

photo and video modes and to start/stop recording or take pictures.

- **Gimbal Control:** Adjust the camera's tilt angle using the gimbal dial on the remote controller.
- **Vertical Shooting:** The camera supports vertical shooting for social media content.
- **Digital Zoom:** Utilize the 4x digital zoom feature through the app.

4.6 Return-To-Home (RTH)

The RTH function ensures the drone returns safely to its takeoff point using GPS.

- **Smart RTH:** Automatically activated when the battery is critically low or if the signal between the drone and remote controller is lost.
- **Manual RTH:** Press the RTH button on the remote controller or in the app to initiate a return to home at any time.

RETURN TO HOME

For Safe And Smart Landings

- 🎯 **One Key Return**
- ⚠️ **Lost Control Return**
- 🔋 **Low Battery Return**



Image: The IZI Mini X Nano drone executing a Return-To-Home maneuver, guided by the remote controller.

5. MAINTENANCE

5.1 Battery Care

- Do not overcharge or over-discharge batteries.
- Store batteries in a cool, dry place, away from direct sunlight and extreme temperatures.
- If storing for extended periods, charge batteries to approximately 50-60% capacity.
- Inspect batteries regularly for any signs of damage or swelling.

5.2 Propeller Inspection and Replacement

- Before each flight, inspect propellers for cracks, bends, or chips.
- Replace damaged propellers immediately using the provided extra propellers.
- Ensure new propellers are installed correctly according to their markings.

5.3 Cleaning

- Use a soft, dry cloth to clean the drone body and remote controller.
- For the camera lens, use a specialized lens cleaning cloth and solution to avoid scratches.
- Avoid using harsh chemicals or solvents.

5.4 Storage

- Fold the drone arms for compact storage.
- Store the drone and its accessories in a protective case to prevent damage.
- Keep out of reach of children and pets.

6. TROUBLESHOOTING

This section addresses common issues you might encounter.

Problem	Possible Cause	Solution
Drone not pairing with remote	Incorrect pairing procedure; low battery on remote or drone; interference.	Ensure both devices are fully charged. Follow the pairing instructions in the app. Move to an area with less interference.
"Barometer not healthy" error	Sensor malfunction; environmental factors (e.g., sudden pressure changes).	Restart the drone and remote. Ensure the drone is on a flat, stable surface during startup. If the issue persists, contact customer support.
Weak or lost video transmission	Distance too far; interference; antenna obstruction.	Fly within the specified 4KM range. Ensure remote antennas are properly oriented. Avoid areas with strong Wi-Fi signals or other electronic interference.
Drone drifts during flight	Insufficient GPS signal; compass not calibrated; strong winds.	Ensure a strong GPS signal (at least 7-10 satellites). Perform compass calibration as instructed in the app. Avoid flying in windy conditions.
Gimbal not stable or level	Gimbal calibration required; physical obstruction.	Perform gimbal calibration through the IZI Sky Eye App. Check for any debris or obstructions around the gimbal.

7. SPECIFICATIONS

Key technical specifications for the IZI Mini X Nano 4K Drone:

Feature	Detail
Model Name	Mini X Nano
Weight	249 Grams
Camera	4K UHD Video, 20MP Photos, F/2.0 Wide-Angle Lens, 1/3.06" CMOS Sensor
Gimbal	3-Axis Stabilized
Max Flight Time	31 Minutes
Battery Capacity	2600 Milliamp Hours (Lithium Ion)
Live Video Transmission Range	4 KM
Max Altitude Range	800 metres
Positioning System	GPS + GLONASS
Connectivity	App, Bluetooth, Wi-Fi
Storage	SD card slot (up to 128 GB Class 100 UHS-1)
Control Type	Remote Control
Included Components	Drone, Remote controller, Batteries, Power adapter, 4 Extra Propellers, USB cable, Lightning RC cable, Micro USB RC Cable, Type-C RC Cable
Dimensions (L x W x H)	18L x 22W x 11H Centimeters

8. WARRANTY AND SUPPORT

8.1 Warranty Information

The IZI Mini X Nano 4K Drone is backed by a **1-year warranty** from the date of purchase. This warranty covers manufacturing defects and malfunctions under normal use. Please retain your proof of purchase for warranty claims. The warranty does not cover damage caused by misuse, accidents, unauthorized modifications, or improper maintenance.

8.2 Customer Support

For technical assistance, troubleshooting, or warranty inquiries, please contact IZI customer support. Refer to the IZI Sky Eye App or the official IZI website for the most up-to-date contact information and support resources, including FAQs and video tutorials.