X-IMVNLEI X9

X-IMVNLEI X9 GPS Drone User Manual

Model: X9

Manufacturer: X-IMVNLEI

1. Introduction

Thank you for choosing the X-IMVNLEI X9 GPS Drone. This user manual provides essential information for the safe operation, setup, and maintenance of your drone. Please read this manual thoroughly before operating the drone to ensure a safe and enjoyable flight experience.

The X9 GPS Drone is a foldable quadcopter equipped with a 4K HD camera, 5GHz FPV real-time video transmission, and advanced GPS positioning features. It is designed for both adults and beginners, offering intelligent flight modes such as Follow Me, Trajectory Flight, Headless Mode, and Gesture Control.

What's in the Box

- X-IMVNLEI X9 GPS Drone
- Remote Controller
- 2 x Modular Batteries
- USB Charging Cable
- Spare Propellers
- Screwdriver
- Carrying Case
- User Manual (this document)



Image: The X-IMVNLEI X9 GPS Drone, its remote controller, two modular batteries, and a carrying case, illustrating the complete package contents.



Image: A comprehensive view of the X-IMVNLEI X9 GPS Drone, including the drone itself, the remote controller, and two batteries, highlighting the main components.

2. Safety Guidelines

Operating a drone requires responsibility. Please adhere to the following safety guidelines to prevent injury or damage.

- **Pre-Flight Check:** Always inspect the drone, remote controller, and batteries before each flight. Ensure propellers are securely attached and undamaged.
- **Flight Environment:** Fly in open areas, away from people, animals, buildings, and trees. Avoid flying near airports or restricted airspace.

- **Weather Conditions:** Do not fly in strong winds, rain, snow, or fog. Optimal flight conditions are calm and clear.
- **Battery Safety:** Use only original batteries and charging cables. Do not overcharge or puncture batteries. Discontinue use if batteries are swollen or damaged.
- **Line of Sight:** Always maintain visual line of sight with your drone during flight.
- **Respect Privacy:** Be mindful of privacy laws when using the camera.
- **Age Recommendation:** This product is suitable for adults and beginners. Adult supervision is recommended for younger users.
- **Weight Compliance:** The X9 drone weighs less than 250 grams, which may exempt it from certain registration requirements in some regions. Always check local regulations.

3. Components Overview

Drone Components

- **Propellers:** Four main propellers for lift and thrust.
- **Motors:** Power the propellers.
- **4K HD Camera:** Front-mounted camera for photo and video capture, with 110° adjustable angle.
- **LED Indicators:** Provide status information (e.g., GPS signal, battery level).
- **Battery Compartment:** Houses the modular battery.
- **Foldable Arms:** Allow for compact storage and portability.



Image: A detailed close-up of the X-IMVNLEI X9 drone's 4K HD camera, highlighting its lens and photo/video capabilities.



Image: The X-IMVNLEI X9 drone with its arms folded, demonstrating its compact and portable design for easy transport.

Remote Controller Components

- **Control Sticks:** Left stick for throttle/yaw, right stick for forward/backward/left/right movement.
- **One-Key Takeoff/Landing Button:** Initiates automatic takeoff or landing.
- **Return to Home (RTH) Button:** Commands the drone to return to its takeoff point.
- **Speed Switch Button:** Toggles between different flight speeds (e.g., low, medium, high).
- **Photo/Video Button:** Captures photos or starts/stops video recording.
- **Phone Holder:** Securely holds your smartphone for FPV viewing and app control.
- **Power Button:** Turns the remote controller on/off.

4. Setup Guide

4.1 Charging the Batteries

1. Connect the modular drone battery to the provided USB charging cable.
2. Plug the USB cable into a 5V/2A USB power adapter (not included).
3. The battery indicator lights will show charging status. Charging is complete when all lights are solid.
4. Charge the remote controller by inserting 4 AAA batteries (not included) into its compartment.



Image: The X-IMVNLEI X9 drone alongside its two modular batteries, emphasizing the extended flight time capability.

4.2 Installing Drone Battery and Propellers

1. Unfold the drone arms carefully until they lock into place.
2. Insert the charged modular battery into the drone's battery compartment until it clicks securely.
3. Ensure propellers are correctly installed. Match 'A' propellers with 'A' motor mounts and 'B' propellers with 'B' motor mounts. Use the provided screwdriver if replacement is needed.

4.3 App Installation and Connection

1. Scan the QR code in the quick start guide or search for the "X-IMVNLEI" app (or similar, check manual) in your smartphone's app store.
2. Install the app on your smartphone.
3. Turn on the drone and the remote controller.
4. On your smartphone, go to Wi-Fi settings and connect to the drone's Wi-Fi network (e.g., "X-IMVNLEI-XXXXXX").

5. Open the app. The live video feed from the drone's camera should appear, indicating a successful connection.



Image: The X-IMVNLEI X9 drone flying with a smartphone displaying the 5GHz FPV live video feed, demonstrating real-time transmission.

5. Operating Instructions

5.1 Calibration and GPS Signal Acquisition

1. Place the drone on a flat, level surface.
2. Perform compass calibration as instructed in the app or quick start guide (usually involves rotating the drone horizontally and vertically).
3. Wait for the drone to acquire sufficient GPS satellites. The LED indicators will change from flashing to solid, indicating a strong GPS signal. This is crucial for GPS-assisted flight modes like Return to Home.



Image: The X-IMVNLEI X9 drone illustrating its GPS Return to Home function, showing the drone automatically returning to its takeoff point.

5.2 Basic Flight Controls

- **Takeoff:** Press the One-Key Takeoff/Landing button or push both control sticks outwards and downwards to arm motors, then push the left stick up.
- **Landing:** Press the One-Key Takeoff/Landing button or pull the left stick down until the drone lands.
- **Throttle (Left Stick Up/Down):** Controls altitude.
- **Yaw (Left Stick Left/Right):** Rotates the drone horizontally.
- **Forward/Backward (Right Stick Up/Down):** Moves the drone forward or backward.
- **Left/Right (Right Stick Left/Right):** Moves the drone sideways.



Image: The X-IMVNLEI X9 drone demonstrating its one-key takeoff and landing feature, simplifying flight initiation and conclusion.

5.3 Intelligent Flight Modes

- **GPS Positioning:** Utilizes satellite signals for stable hovering and precise positioning.
- **Return to Home (RTH):**
  - **One-Key RTH:** Press the RTH button on the remote.
  - **Low Battery RTH:** Drone automatically returns when battery is critically low.
  - **Signal Loss RTH:** Drone automatically returns if connection to remote is lost.
- **Follow Me Mode:** The drone will automatically follow the remote controller or smartphone (if GPS is enabled on the device).



Image: The X-IMVNLEI X9 drone in Follow Me mode, automatically tracking a subject, ideal for dynamic video capture.

- **Trajectory Flight:** Draw a path on the app's map interface, and the drone will fly along the designated route.



Image: The X-IMVNLEI X9 drone executing a pre-programmed trajectory flight, following a custom path drawn on the control app.

- **Fixed-Point Surround (Circle Fly):** Select a point on the map, and the drone will circle around it at a specified radius.



Image: The X-IMVNLEI X9 drone in Surround Mode, orbiting a central point to capture panoramic views.

- **Gesture Control:** Perform specific hand gestures in front of the camera to trigger photo or video recording. Refer to the app for specific gestures.



Image: The X-IMVNLEI X9 drone responding to hand gestures for photo capture, simplifying aerial photography.

- **Headless Mode:** In this mode, the drone's orientation is irrelevant; it will move relative to the pilot's position, making it easier for beginners to control.

6. Maintenance

- **Cleaning:** Use a soft, dry cloth to clean the drone and remote controller after each use. Avoid water or harsh chemicals.
- **Propeller Inspection:** Regularly check propellers for cracks, bends, or damage. Replace damaged propellers immediately using the provided spare parts.
- **Battery Storage:** Store batteries in a cool, dry place, away from direct sunlight and extreme temperatures. For long-term storage, charge batteries to about 50-60% capacity.
- **Storage:** When not in use, store the drone and its accessories in the provided carrying case to protect them from dust and physical damage.

7. Troubleshooting

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
Drone does not respond to remote.	Not paired; low battery on remote or drone; out of range.	Ensure drone and remote are powered on and paired. Recharge batteries. Fly within operational range.
Drone drifts during flight.	Improper calibration; strong winds.	Perform compass calibration. Avoid flying in windy conditions.
Poor camera image quality or no FPV feed.	Weak Wi-Fi signal; app not connected; camera lens dirty.	Ensure strong Wi-Fi connection to drone. Reconnect app. Clean camera lens.
Drone does not return to home accurately.	Weak GPS signal; RTH initiated too early.	Ensure drone has acquired sufficient GPS satellites before takeoff.
Short flight time.	Battery not fully charged; old/damaged battery.	Fully charge batteries before flight. Consider replacing old batteries.

8. Specifications

Feature	Detail
Brand	X-IMVNLEI
Model Name	X9
Item Weight	120 Grams
Product Dimensions (L x W x H)	26 x 19 x 8 cm
Battery Type	Lithium Polymer (included)
Video Recording Resolution	4K
Connectivity Technology	Wi-Fi (5GHz FPV)
Special Features	HD Camera, 5GHz FPV, GPS Positioning, Beginner-Friendly Features, Lightweight Design
Skill Level	Beginner
Color	Cranberry

9. Warranty and Support

For warranty information and technical support, please refer to the contact details provided on the product packaging or

the official X-IMVNLEI website. Keep your purchase receipt as proof of purchase for warranty claims.

If you encounter any issues not covered in this manual, please contact customer support for assistance. Do not attempt to disassemble or repair the drone yourself, as this may void the warranty and cause further damage.

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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.

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