X-IMVNLEI X5

X-IMVNLEI X5 Drone User Manual

Model: X5

1. Introduction

The X-IMVNLEI X5 Drone is a high-performance quadcopter designed for both beginners and experienced pilots. It features a dual positioning system, a 4K HD adjustable camera, and advanced flight modes, providing a stable and enjoyable flight experience. This manual provides essential information for setting up, operating, and maintaining your X5 drone.



Image 1.1: The X-IMVNLEI X5 Drone in flight, showcasing its sleek design.

2. Safety Guidelines

Always prioritize safety during drone operation. Failure to follow these guidelines may result in injury, damage to property, or legal consequences.

- **Read the Manual:** Familiarize yourself with all instructions before operating the drone.
- **Pre-Flight Check:** Ensure all components are correctly assembled and batteries are fully charged.
- **Environmental Conditions:** Do not fly in strong winds (above Level 6), rain, snow, or fog. Avoid extreme temperatures.
- **Line of Sight:** Always maintain visual line of sight with your drone.
- **Obstacle Avoidance:** Keep the drone away from people, animals, buildings, trees, power lines, and other obstacles.
- **Restricted Areas:** Do not fly near airports, military bases, or other restricted airspace. Check local regulations.
- **Battery Safety:** Use only approved batteries and chargers. Do not overcharge or puncture batteries.
- **Age Recommendation:** This product is recommended for adults.

3. Package Contents

Verify that all items are present in your package:

- X5 Drone with 4K Camera
- Smart Controller
- 2 x Batteries
- Carrying Bag
- Spare Propellers
- USB Charging Cable
- Screwdriver
- User Manual



Image 3.1: The X5 Drone, remote controller, and included accessories.

4. Product Overview

4.1 Drone Components

- **Foldable Arms:** For compact storage and transport.
- **Brushless Motors:** Provide powerful and efficient flight.
- **Propellers:** Generate lift for flight.
- **Front 4K HD Camera:** Captures high-resolution photos and videos, 90° electrically adjustable.
- **Bottom 720P Camera:** Provides a vertical view and assists with optical flow positioning.
- **LED Lights:** Indicate drone status and orientation.
- **Battery Compartment:** Houses the removable flight battery.



Image 4.1: Detail of the X5 Drone's 4K HD camera with 120° FOV and 5G transmission capability.

4.2 Remote Controller

The remote controller allows for precise control of the drone and access to various flight functions. It connects via Wi-Fi to your smartphone for FPV viewing.

5. Setup

5.1 Charging Batteries

Fully charge both drone batteries and the remote controller before first use. Use the provided USB charging cable.

- Connect the USB charging cable to a USB power adapter (not included).
- Connect the other end to the drone battery or remote controller.
- Charging indicators will show charging status (refer to specific LED behavior in the quick start guide).



Image 5.1: The X5 Drone and its two removable batteries, providing up to 36 minutes of flight time.

5.2 Installing Propellers

Attach the propellers to the motor shafts according to the markings (A and B) on the propellers and motor arms. Ensure they are securely fastened.

5.3 App Installation and Connection

Download the official X-IMVNLEI drone application from your smartphone's app store. This app enables FPV viewing and access to advanced flight features.

- Power on the drone and the remote controller.
- On your smartphone, connect to the drone's 5GHz Wi-Fi network (usually named 'X-IMVNLEI-XXXX').
- Open the drone application. The live FPV feed should appear.

6. Operating Instructions

6.1 Pre-Flight Checks

Before each flight, perform the following checks:

- Ensure batteries are fully charged.
- Propellers are correctly installed and undamaged.
- Drone arms are unfolded and locked.
- Fly in an open area, away from obstacles and people.
- Calibrate the drone's gyroscope and compass as instructed in the app or quick start guide.

6.2 Take-off and Landing

The X5 drone supports one-key take-off and landing for ease of use.

- **One-Key Take-off:** Press the one-key take-off button on the remote controller or in the app. The drone will automatically ascend to a safe altitude and hover.
- **One-Key Landing:** Press the one-key landing button. The drone will slowly descend and land automatically.

6.3 Flight Modes and Features

The X5 drone offers various flight modes for enhanced control and creative possibilities:

- **GPS Positioning:** Provides precise outdoor hovering and flight stability.
- **Optical Flow Positioning:** Ensures stable indoor flight by analyzing ground patterns.



Image 6.1: The drone utilizing optical flow positioning for stable flight and altitude hold.

- **Altitude Hold:** Maintains a consistent altitude, allowing you to focus on camera control.
- **Headless Mode:** Simplifies flight by eliminating the need to adjust the drone's orientation. The drone's front will always be the direction the pilot is facing.
- **Circle Fly:** The drone flies in a circular path around a designated point.
- **Waypoint Flight:** Plan a custom flight path by setting multiple waypoints on the map in the app.
- **Follow Me:** The drone automatically follows the remote controller or smartphone.
- **Gesture Control:** Perform specific hand gestures to trigger photo or video recording.



Image 6.2: Visual representation of Waypoint Flight, Headless Mode, and Circle Fly functions.

6.4 Camera Operation

The drone is equipped with a front 4K HD camera and a bottom 720P camera.

- **Front Camera:** Captures 1080P videos and images. The camera angle can be adjusted by 90° via the remote controller or app.
- **Bottom Camera:** Provides a vertical view, useful for specific shots or navigation.
- **Recording:** Use the dedicated buttons on the remote controller or the app interface to start/stop video recording or take photos.

6.5 Safety Return Features

The X5 drone includes multiple safety return functions:

- **One-Key Return to Home (RTH):** Press the RTH button on the remote controller, and the drone will automatically return to its take-off point.
- **Low Power Return:** If the battery level becomes critically low, the drone will automatically initiate a return to home.
- **Signal Loss Return:** If the drone loses connection with the remote controller, it will automatically return to its take-off point.



Image 6.3: Illustration of the GPS Return to Home function, including RTH button, low power, and signal loss return.

7. Maintenance

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

- **Cleaning:** Use a soft, dry cloth to clean the drone body and camera lenses. Avoid using liquids.
- **Propeller Replacement:** Inspect propellers for damage before each flight. Replace any bent, cracked, or chipped propellers using the provided screwdriver.
- **Battery Care:** Store batteries in a cool, dry place. Do not fully discharge batteries for extended periods. Charge them to about 50-60% for long-term storage.
- **Storage:** When not in use, fold the drone arms and store it in the carrying bag to protect it from dust and damage.



Image 7.1: The X5 Drone and its accessories neatly packed in the portable carrying case.

8. Troubleshooting

If you encounter issues with your X5 drone, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Drone does not power on	Low battery; Incorrect battery installation	Charge battery fully; Reinstall battery correctly
Unable to connect to Wi-Fi	Drone not powered on; Incorrect Wi-Fi selected; Interference	Ensure drone is on; Select correct 5GHz Wi-Fi network; Move to an area with less interference
Unstable flight/Drifting	Improper calibration; Damaged propellers; Strong wind	Recalibrate gyroscope/compass; Replace damaged propellers; Fly in calm conditions
Poor camera image quality	Dirty lens; Low light; Wi-Fi interference	Clean lens; Fly in well-lit conditions; Ensure strong Wi-Fi connection
Drone does not respond to controller	Controller not paired; Low controller battery; Out of range	Pair controller with drone; Charge controller battery; Fly within operational range

9. Specifications

Feature	Detail
Brand	X-IMVNLEI
Model Name	X5
Special Features	Dual positioning system, 4K HD adjustable camera, advanced safety features

Feature	Detail
Age Range (Description)	Adult
Video Recording Resolution	1080p, 4K
Connectivity Technology	Wi-Fi (5GHz FPV)
Included Components	Drone with 4K camera, carrying bag, smart controller, 2x batteries
Skill Level	Intermediate
Item Weight	209.5 Grams
Video Capture Resolution	1080p, 4K
Battery Capacity	1200 Milliampere-hour (mAh)
Video Capture Format	MP4
Remote Control Technology	Wi-Fi
Control Type	Remote Control
Wireless Communication Technology	Wi-Fi
Battery Composition	Lithium-ion
Batteries Included?	Yes
Supported Image Format	JPEG, PNG
Video Output Resolution	4K
Remote Control Included?	Yes
Optical Sensor Technology	Optical Flow
Rechargeable Batteries Included?	Yes
Manufacturer	X-IMVNLEI
Material	Lightweight and durable material
Item Dimensions L x W x H	28L x 21W x 8H centimeters

10. Warranty and Support

For warranty information and technical support, please refer to the contact details provided with your purchase or visit the official X-IMVNLEI website. Keep your proof of purchase for warranty claims.

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