X-IMVNLEI X17p

X-IMVNLEI Drone with 2 HD 1080P Cameras User Manual

Model: X17p | Brand: X-IMVNLEI

Product Overview

The X-IMVNLEI X17p drone is a high-performance quadcopter designed for both beginners and experienced users. It features dual high-definition cameras, offering versatile aerial photography and videography capabilities. The drone is equipped with advanced flight functions for stable and enjoyable operation.



Figure 1: X-IMVNLEI X17p Drone and Included Accessories.
This image displays the X-IMVNLEI X17p drone in blue, along with its remote controller, a smartphone holder, two additional modular batteries, spare propellers, propeller guards, and a portable carrying case.

Key Features:

- **Dual 1080P HD Cameras:** Equipped with two high-definition cameras, one at the front and one at the bottom, for multi-angle photo and video capture. The front camera angle is electrically adjustable from 0° to 135°.
- **High-Performance Dual Protection Batteries:** Includes two modular batteries providing up to 20 minutes of flight time. Features an advanced auto-adjusting chip for safe charging.
- **Optical Flow Positioning:** The bottom camera integrates an optical positioning sensor for precise indoor hovering, enhancing stability and ease of control.
- **Smart Advanced Functions:** One-button take-off/landing, altitude hold, 3D flips, gesture control, custom flight trajectory, and 3-speed modes for an engaging flight experience.
- **Portable and Foldable Design:** The quadcopter features a foldable design for easy transport and storage, weighing only 115 grams. A portable storage bag is included.

Setup Guide

1. Unboxing and Inspection

Carefully remove all components from the packaging. Verify that all items listed in the package contents are present and undamaged. The package includes the drone, remote controller, two modular batteries, spare propellers, propeller guards, USB charging cable, screwdriver, and a carrying bag.

2. Battery Installation and Charging

Drone Battery: Insert a fully charged modular battery into the battery compartment at the rear of the drone until it clicks into place. Ensure the battery is securely seated.

Remote Controller Batteries: Open the battery cover on the back of the remote controller and insert 3 AAA batteries (not included), observing the correct polarity (+/-). Close the cover.

Charging: Connect the drone's modular battery to the USB charging cable and plug it into a 5V/2A USB adapter (not included). The charging indicator light will show the charging status. A full charge typically takes 60-80 minutes. The battery features an advanced auto-adjusting chip for safe charging, preventing overcurrent.

3. Propeller Installation

If not pre-installed, attach the propellers to the motor shafts. Ensure that propellers marked 'A' are installed on 'A' motor shafts and 'B' on 'B' motor shafts. Use the provided screwdriver to secure them if necessary. Attach propeller guards for added protection, especially for beginners.

4. App Download and Connection

Download the dedicated drone control app (refer to the QR code in the quick start guide or search for "X-IMVNLEI Drone" in your app store). Turn on the drone and your smartphone's Wi-Fi. Connect your phone to the drone's Wi-Fi network (usually named "X-IMVNLEI-XXXXXX"). Open the app to establish a connection and view the FPV feed.

Operating Instructions

1. Pre-Flight Checklist

- Ensure drone and remote controller batteries are fully charged.
- Check that propellers are correctly installed and free from damage.
- Choose an open area free from obstacles, people, and animals.
- Connect your smartphone to the drone's Wi-Fi and open the control app.

2. Pairing and Calibration

Turn on the drone, then turn on the remote controller. Push the left joystick up and then down to pair. The drone's indicator lights will stop flashing and remain solid once paired. Place the drone on a flat, level surface for gyroscope calibration (usually by pushing both joysticks down and to the right/left simultaneously, refer to the quick start guide for exact combination).

3. Basic Flight Controls

- **One-Button Take-off/Landing:** Press the designated button on the remote controller or in the app to automatically take off or land.
- **Altitude Hold:** The drone will automatically maintain its current altitude, making it easier to control.
- **Headless Mode:** In this mode, the drone's orientation is relative to the pilot, regardless of the drone's front direction. Activate it before flight for easier control, especially for beginners.
- **Speed Adjustment:** Cycle through 3 different speed modes (low, medium, high) using the speed button on the remote controller to match your skill level and environment.

4. Camera Operation



Figure 2: Dual Camera System.
This image provides a detailed view of the drone's front and bottom cameras, emphasizing its dual camera setup for comprehensive aerial views.



Figure 3: 1080P HD Camera Quality.
This image illustrates the superior clarity of the 1080P HD camera, showing a side-by-side comparison with a 720P image. The 1080P image is noticeably sharper and more detailed, demonstrating the high-quality visual output of the drone's main camera.

- **Photo/Video Capture:** Use the dedicated buttons on the remote controller or within the app to take photos or start/stop video recording. Files are saved directly to your connected smartphone or an inserted SD card (if applicable).
- **Adjustable Camera Angle:** The front camera's angle can be adjusted electrically from 0° to 135° via the remote controller, allowing for diverse perspectives during flight.
- **Optical Flow Positioning:** The bottom camera assists with stable hovering, especially in indoor environments, by detecting ground patterns.

5. Advanced Functions

- **3D Flips:** Press the 3D flip button and move the right joystick in any direction to perform an aerial flip. Ensure sufficient altitude before attempting.
- **Gesture Control:** Perform specific hand gestures in front of the drone's camera to trigger photo or video capture

(refer to app instructions for specific gestures).

- **Custom Flight Trajectory:** In the app, draw a desired flight path on your screen, and the drone will automatically follow it.

Maintenance

1. Battery Care

- Always use the original charging cable and a compatible 5V/2A adapter.
- Do not overcharge or over-discharge the batteries. Disconnect once fully charged.
- Store batteries in a cool, dry place away from direct sunlight and extreme temperatures.
- If storing for extended periods, charge batteries to approximately 50% capacity.

2. Cleaning and Storage

Wipe the drone and remote controller with a soft, dry cloth after each use. Avoid using harsh chemicals or solvents. Ensure no dust or debris accumulates in the motors or camera lens. When not in use, fold the drone and store it in the provided carrying bag to protect it from dust and physical damage.

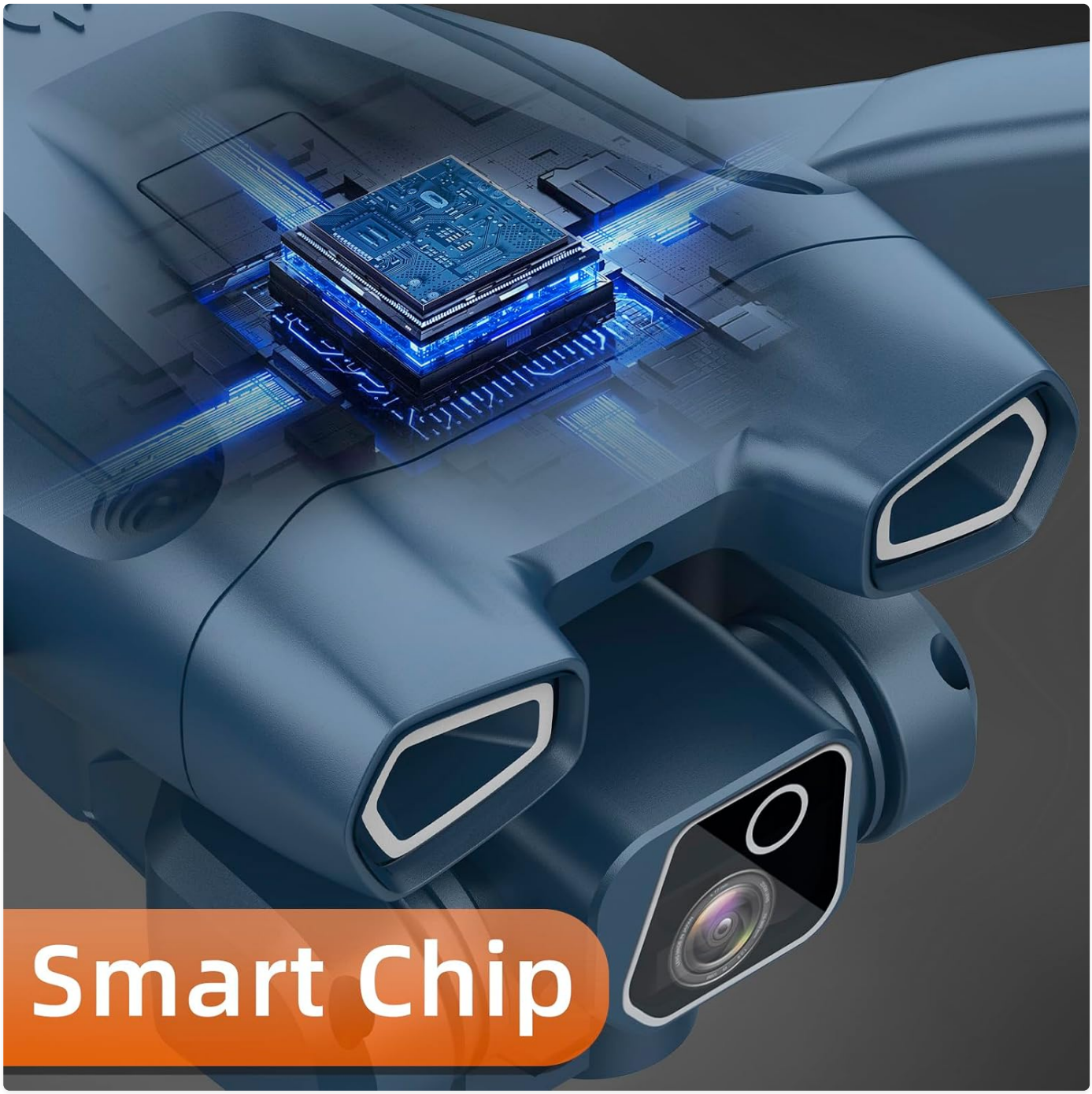


Figure 4: Motor Protection.
This image highlights the protective design around the drone's motors, indicating features that help shield them from dust and minor impacts, contributing to the drone's longevity and reliable performance.

3. Propeller Replacement

Inspect propellers regularly for cracks or damage. If a propeller is damaged, replace it immediately with a spare propeller from the package. Ensure the correct 'A' and 'B' propellers are installed on their respective motor shafts.

Troubleshooting

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
Drone does not power on.	Battery not charged or not properly installed.	Ensure battery is fully charged and securely inserted.
Remote controller does not connect.	Controller batteries low or pairing failed.	Replace controller batteries. Re-attempt pairing procedure (joystick up-down).
Drone drifts during flight.	Gyroscope not calibrated or environmental interference.	Perform gyroscope calibration on a flat surface. Fly in an open area away from strong winds or magnetic interference.
FPV feed is choppy or disconnected.	Weak Wi-Fi signal or too far from drone.	Ensure smartphone is connected to drone's Wi-Fi. Reduce distance between phone and drone. Avoid areas with high Wi-Fi interference.
Drone does not respond to gestures.	Incorrect gesture or insufficient lighting.	Refer to the app for correct gesture patterns. Ensure adequate lighting for the camera to detect gestures.

Specifications

Feature	Detail
Brand	X-IMVNLEI
Model Name	X17p
Item Model Number	YHWJ017
Item Weight	153 Grams
Product Dimensions (L x W x H)	20 x 15 x 5 cm
Battery Type	Lithium Polymer (included)
Video Recording Resolution	1080p
Connectivity Technology	Wi-Fi
Special Features	Dual HD Cameras, Optical Flow Positioning
Age Range (Description)	Adult
Skill Level	Beginner
Included Components	Handbag, Two Batteries, Other Accessories (e.g., propellers, charging cable)

Warranty and Support

For detailed warranty information and customer support, please refer to the official X-IMVNLEI website or contact the retailer from whom you purchased the product. Keep your proof of purchase for warranty claims.

If you encounter any issues not covered in this manual, please reach out to X-IMVNLEI customer service for assistance. Contact details can typically be found on the product packaging or the brand's official website.

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