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› SIMREX X900 Drone User Manual

SIMREX x900

SIMREX X900 Drone User Manual

Optical Flow Positioning RC Quadcopter with 1080P HD Camera

1. INTRODUCTION

This manual provides essential information for operating and maintaining your SIMREX X900 Drone. Please read it thoroughly before first use to ensure safe and proper operation.

The SIMREX X900 is a foldable RC quadcopter featuring Optical Flow Positioning for stable flight, a 1080P HD camera for capturing photos and videos, Altitude Hold, Headless Mode, and easy one-key take-off and landing, making it suitable for beginners.



Figure 1: SIMREX X900 Drone, remote control, and smartphone holder.

2. PRODUCT COMPONENTS

The SIMREX X900 package includes the following items:

- SIMREX X900 Drone (Matte White)
- Remote Control Transmitter
- 1080P HD Camera (integrated)
- 1 Lithium Metal Battery (included)
- Charging Cable
- Spare Propellers (4)
- Propeller Guards (4)

- User Manual (this document)

3. SETUP GUIDE

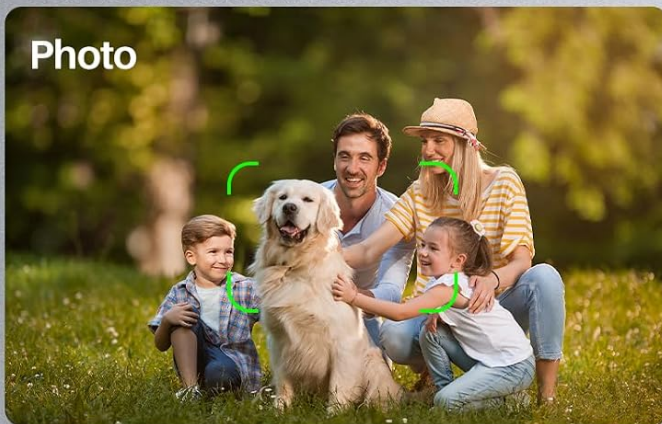
3.1. Unfolding the Drone

The X900 drone features a foldable design for portability. Gently unfold the arms of the drone until they click into place. Ensure all arms are fully extended before flight.

Ultra HD 1080P Camera



Photo



Video

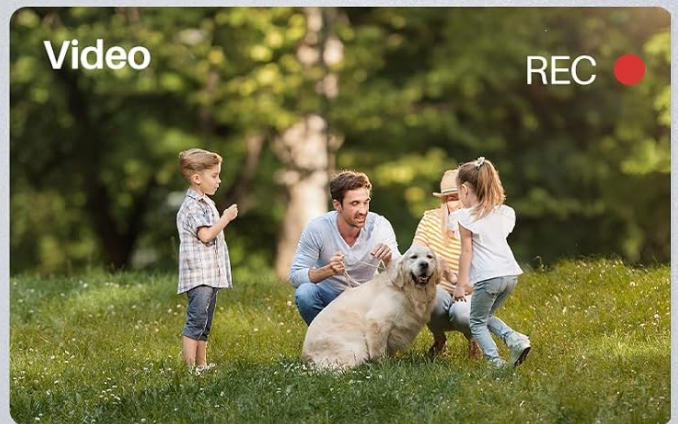


Figure 2: The SIMREX X900 drone shown in both its compact, folded state and its ready-to-fly, unfolded configuration.

3.2. Battery Installation and Charging

Insert the provided Lithium Metal battery into the drone's battery compartment. Ensure it is securely latched. For charging, connect the charging cable to the drone and a suitable USB power source. Charging time is approximately 90 minutes.

3.3. Frequency Binding

To establish a connection between the drone and the remote control:

1. Long press the power button on the drone to turn it on.
2. Place the drone on a horizontal surface, ensuring the camera faces forward.
3. Press the power button on the controller to turn it on.
4. Push the left joystick upwards then downwards. The drone's lights will stop flashing and remain steady, indicating a successful connection.

Your browser does not support the video tag.

Video 1: Official SIMREX X900 Drone Remote Controller Operation Guide, demonstrating frequency binding, calibration, and basic flight controls.

3.4. Calibration

After successful binding, calibrate the drone for stable flight:

1. Push both the left and right joysticks on the controller 45° outwards.
2. The drone's flashing lights will change to steady, indicating successful calibration.

Refer to Video 1 for a visual demonstration of the calibration process.

4. OPERATING INSTRUCTIONS

4.1. Unlocking the Drone

To unlock the drone's propellers before take-off:

- Push both the left and right joysticks on the controller 45° inward. The propellers will begin to spin slowly.

Refer to Video 1 for a visual demonstration of unlocking the drone.

4.2. Take-off and Landing

There are two methods for take-off and landing:

- **Manual Control:** Push the left joystick upwards to take off. To land, push the left joystick downwards.
- **One-Key Operation:** Long press the "One Key Rise" button on the controller to take off. In-flight, long press the "One Key Fall" button to land.

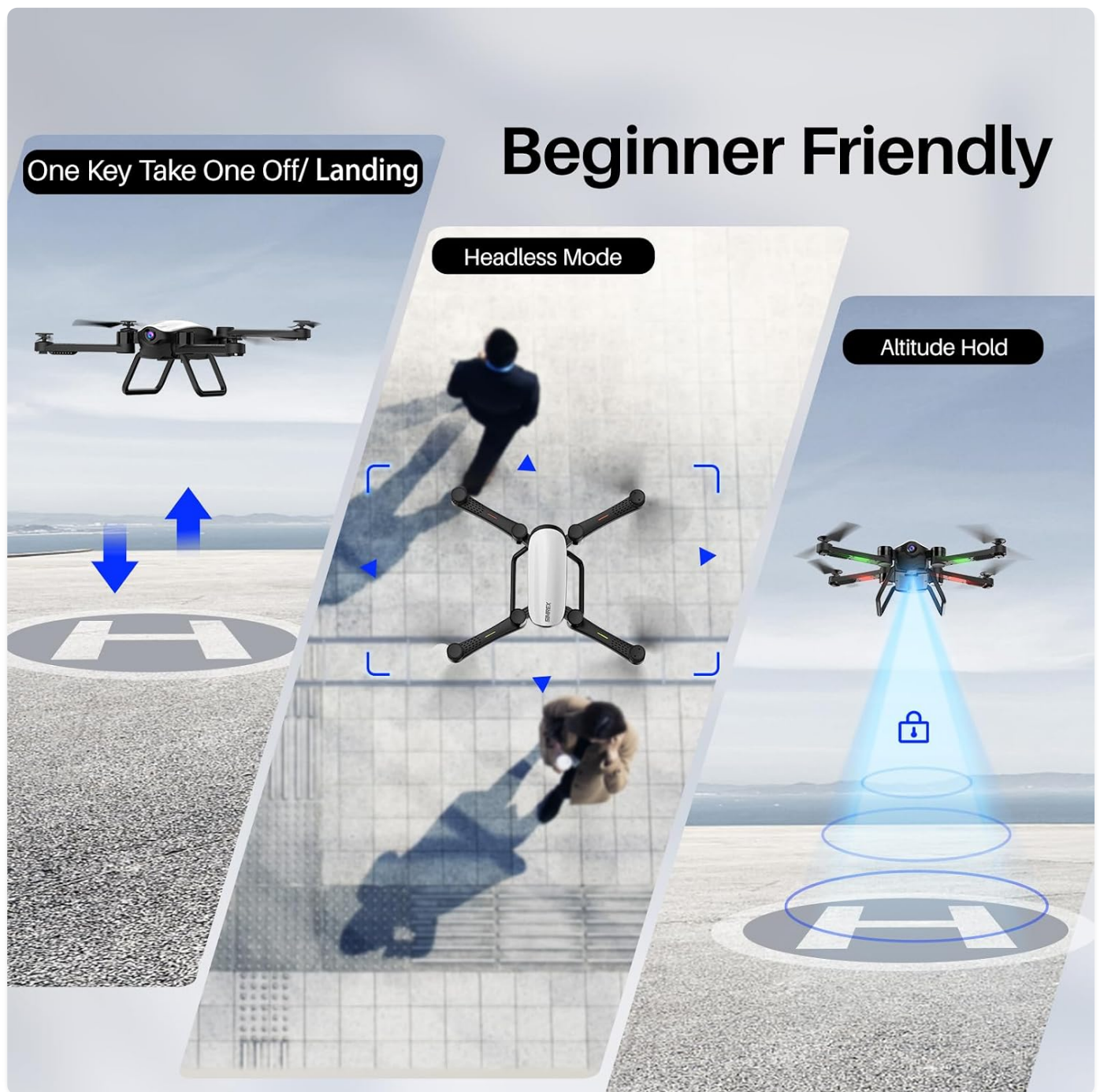


Figure 3: The SIMREX X900 drone illustrating its beginner-friendly features: One Key Take Off/Landing, Headless Mode, and Altitude Hold.

Refer to Video 1 for a visual demonstration of basic take-off and landing operations.

4.3. Basic Flight Controls

The remote control allows for precise manipulation of the drone's flight path:

- **Left Joystick:** Controls altitude (up/down) and rotation (left turn/right turn).
- **Right Joystick:** Controls forward/backward movement and left/right side flight.

Refer to Video 1 for a visual demonstration of basic flight controls.

4.4. Altitude Hold

The Altitude Hold feature allows the drone to maintain its current height automatically, providing stable hovering for easier control and photography. You can release the throttle stick, and the drone will keep its altitude.

Hover Stably

Hover accurately in any position by the Optical Positioning camera Friendly to beginners



Figure 4: The SIMREX X900 drone demonstrating stable hovering, achieved by its Optical Positioning camera, making it beginner-friendly.

4.5. Headless Mode

In Headless Security Mode, the drone's orientation is relative to the pilot. This means you don't need to worry about which direction the drone's "nose" is facing, simplifying control, especially for beginners.

Refer to Video 1 for a visual demonstration of headless mode operation.

4.6. Speed Adjustment

The drone offers multiple speed modes. Press the lower left button on the remote control to adjust the flight speed according to your skill level and environmental conditions.

Refer to Video 1 for a visual demonstration of speed adjustment.

4.7. 360° Rolling (Flips)

To perform a 360° roll:

1. Short press the roll button on the remote control. The remote will make a ticking sound, indicating it has entered

rolling mode.

2. Push the right joystick to the left, and the aircraft will roll 360° to the left.
3. Push the right joystick to the right, and the aircraft will roll 360° to the right.

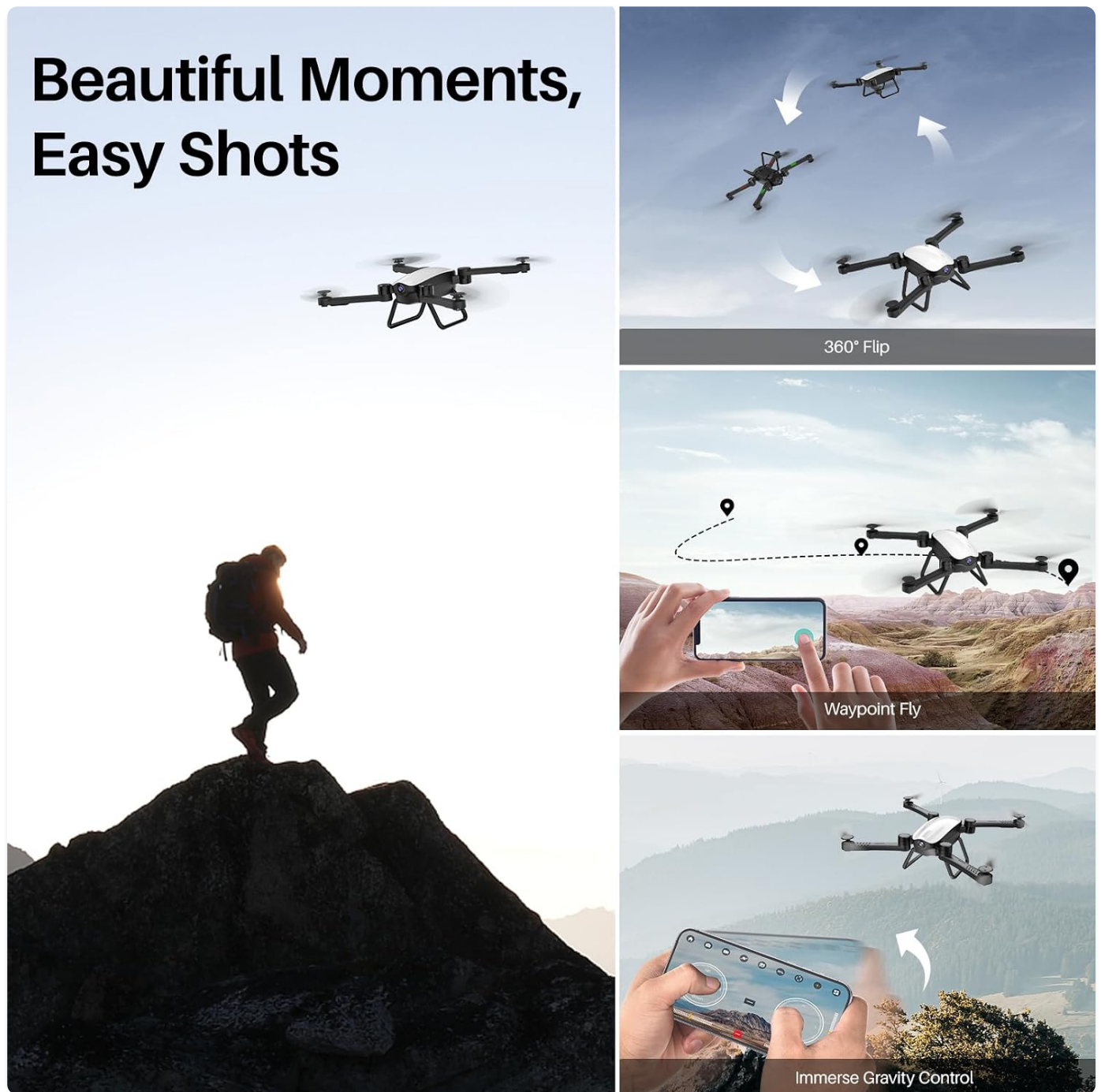


Figure 5: The SIMREX X900 drone executing a 360-degree flip, a dynamic maneuver.

Refer to Video 1 for a visual demonstration of 360° rolling.

4.8. Photo and Video Capture

The drone is equipped with a 1080P HD camera. To capture media:

- **Take Pictures:** Short press the "photo/video" button on the remote control.
- **Record Video:** Long press the "photo/video" button to start recording. Long press again to stop.

The drone supports phone direct control with transmission, allowing you to view live video via WiFi on Apple iOS or Android phones. Download the dedicated app for this functionality.

Refer to Video 1 for a visual demonstration of photo and video capture.

5. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the drone and remote control. Avoid using harsh chemicals or solvents.
- **Propellers:** Regularly inspect propellers for damage. Replace any bent or broken propellers with the provided spares to ensure optimal flight performance.
- **Storage:** When not in use, store the drone in a cool, dry place, away from direct sunlight and extreme temperatures. Remove the battery if storing for extended periods.
- **Battery Care:** Do not overcharge or over-discharge the battery. Store batteries at approximately 50% charge if not used for a long time.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Drone does not respond to controller.	Not properly bound; low battery on drone or controller.	Perform frequency binding again. Charge drone and controller batteries.
Unstable flight/driftng.	Not calibrated; damaged propellers; strong wind.	Recalibrate the drone. Replace damaged propellers. Fly in calm conditions.
Poor camera quality/no image.	Weak Wi-Fi signal; camera lens dirty; app issue.	Ensure strong Wi-Fi connection. Clean camera lens. Restart app/drone.
Short flight time.	Battery not fully charged; old battery.	Ensure battery is fully charged. Consider replacing old batteries.

7. SPECIFICATIONS

Feature	Detail
Brand	SIMREX
Model Name	X900
Special Feature	Optical Flow Positioning
Color	Matte White
Video Capture Resolution	1080p
Connectivity Technology	Wi-Fi
Skill Level	Beginner

Feature	Detail
Maximum Range	120 Meters
Flight Time	About 12-15 Minutes
Charging Time	About 90 Minutes
Battery Type	Lithium Metal (1 included)
Product Dimensions	15.09"L x 14.04"W x 3.48"H
Item Weight	1.48 pounds

8. WARRANTY AND SUPPORT

For warranty information and customer support, please refer to the official SIMREX website or contact their customer service directly. Keep your purchase receipt as proof of purchase for any warranty claims.
Visit the official SIMREX Store: [SIMREX Store on Amazon](#)

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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.

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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