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SIMREX X900

SIMREX X900 Drone Optical Flow Positioning RC Quadcopter User Manual

Model: X900 | Brand: SIMREX

1. Introduction

The SIMREX X900 Drone is a foldable RC quadcopter designed for beginners, featuring Optical Flow Positioning for stable flight, a 1080P HD camera for capturing photos and videos, Altitude Hold, and Headless Mode. Its compact design makes it easy to transport, and it offers various flight functions including 3D flips and Wi-Fi live video transmission.

2. What's in the Box

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

Image: The SIMREX X900 drone in its unfolded state, alongside its remote control and a view of the drone in its folded, compact form.

3. Setup Guide

3.1 Battery Installation

Ensure the drone battery is fully charged before first use. Insert the charged battery into the drone's battery compartment, ensuring it clicks securely into place. For the remote control, install the required batteries.

3.2 App Installation and Wi-Fi Connection

Download the official SIMREX drone application from your device's app store (Apple iOS / Android compatible). Turn on the drone and your smartphone's Wi-Fi. Connect your smartphone to the drone's Wi-Fi network (usually named "SIMREX-X900" or similar). Open the app to view the live FPV feed and access advanced controls.

3.3 Frequency Binding and Calibration

To ensure stable flight, perform frequency binding and calibration before each flight. This process synchronizes the drone with its remote control and calibrates its internal sensors.

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Video: A detailed demonstration of the frequency binding and calibration process for the SIMREX X900 drone, including steps for turning on the drone and controller, positioning the drone, and performing stick commands for successful binding and calibration.

1. **Power On Drone:** Long press the power button on the drone. Ensure the camera faces forward and place the drone on a horizontal surface.
2. **Power On Controller:** Press the power button on the remote control.
3. **Bind Frequency:** Push the left joystick upwards then downwards. The drone's lights will change from flashing to steady, indicating successful connection.
4. **Calibrate:** Push both the left and right joysticks 45° outwards simultaneously. The drone's flashing lights will change to steady, confirming successful calibration.
5. **Unlock Motors:** Push both the left and right joysticks 45° inward simultaneously. The propellers will begin to spin slowly, indicating the motors are unlocked and ready for flight.

4. Operating Instructions

4.1 Basic Flight Operations

Familiarize yourself with the remote control layout and functions before attempting flight.

- **Take-off:** Push the left joystick upwards to take off, or long press the "One key rise" button for automatic take-off.
- **Landing:** Push the left joystick downwards to land, or long press the "One key fall" button for automatic landing.
- **Altitude Control:** The left joystick controls vertical movement (up/down).
- **Directional Control:** The right joystick controls forward, backward, left fly, and right fly movements.
- **Turning:** The left joystick also controls left and right turns (yaw).

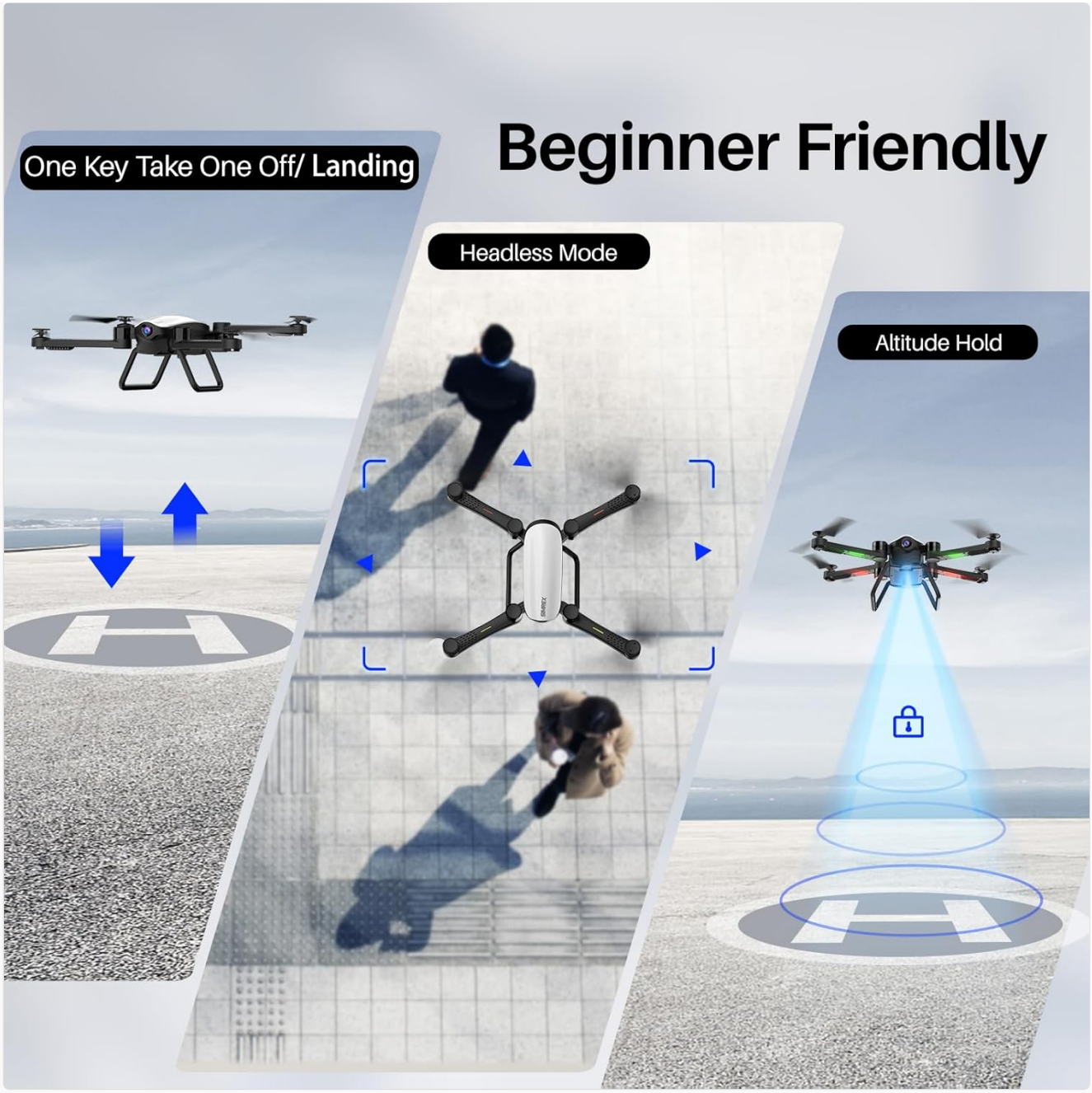

Image: Visual representation of the drone's beginner-friendly features, including one-key take-off/landing, headless mode, and altitude hold for stable hovering.

4.2 Special Flight Modes

- **Altitude Hold:** Release the throttle stick, and the drone will maintain its current height, allowing for stable hovering.
- **Headless Mode:** In this mode, the drone's orientation is relative to the pilot, eliminating the need to adjust its position before flying. This is particularly helpful for beginners.
- **360° Flips:** Execute impressive aerial acrobatics with a single button press.
- **Waypoint Fly:** Plan custom flight paths on the app interface, and the drone will automatically follow the designated route.
- **Gravity Control:** Control the drone's movement by tilting your smartphone, offering an intuitive flight experience.

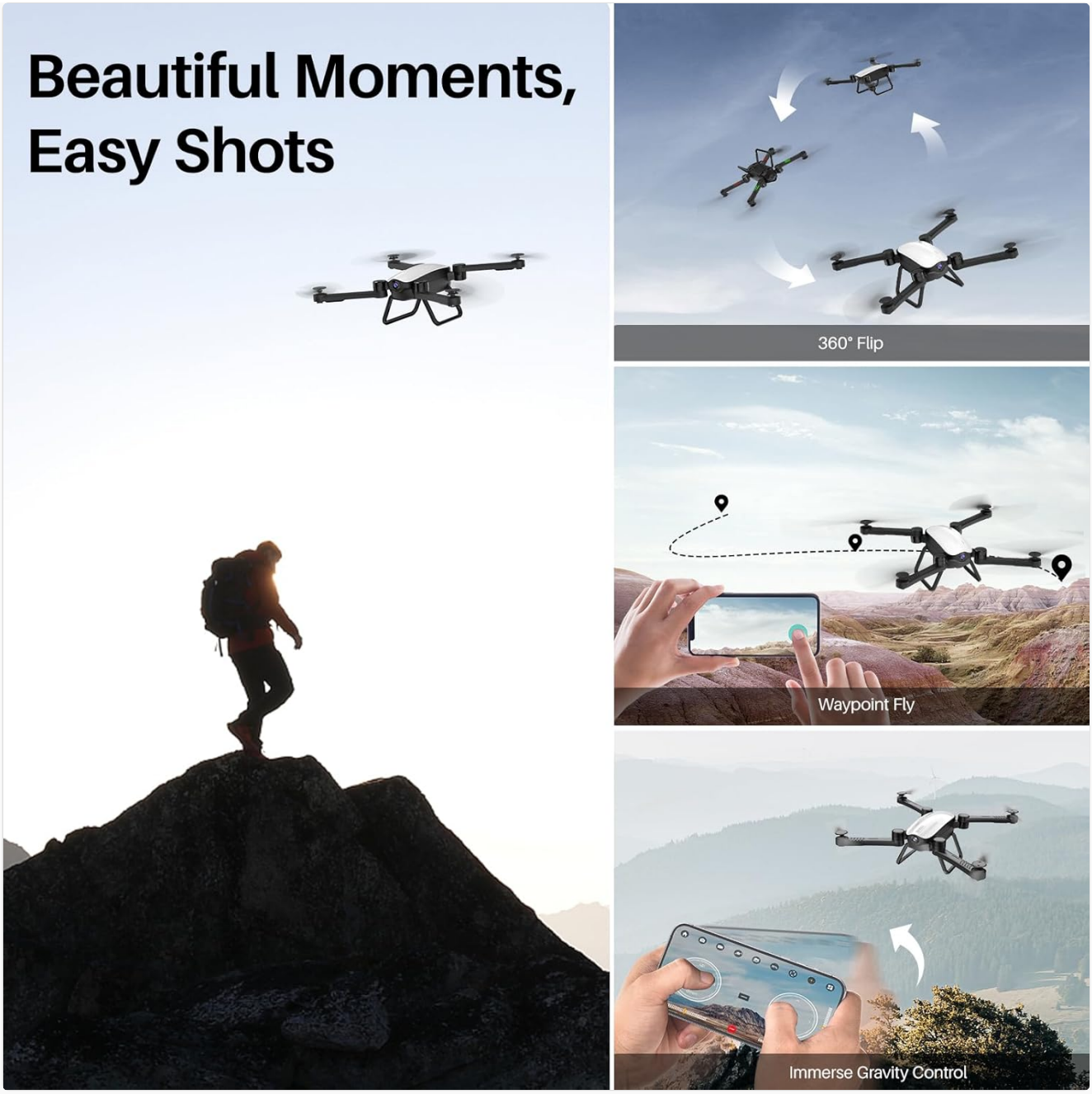

Image: The drone executing a 360-degree flip, following a pre-set waypoint flight path, and being controlled via smartphone gravity sensing.

4.3 Speed Adjustment

Adjust the drone's flight speed by pressing the lower left button on the remote control. Multiple speed modes are available for different skill levels and flying conditions.

4.4 Photo and Video Capture

The integrated 1080P HD camera allows for high-quality image and video capture.

Image: Close-up of the drone's camera highlighting its 1080P UHD resolution, 110-degree FPV capability, and support for "Follow Me" and "Gesture Take" functions for photos and videos.

- **Take Photo:** 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.
- Live video feed is available via Wi-Fi connection to your smartphone.

5. Maintenance

- **Cleaning:** Use a soft, dry cloth to clean the drone and remote control. Avoid using harsh chemicals or solvents.
- **Propeller Inspection:** Regularly check propellers for any damage (cracks, bends). Replace damaged propellers immediately using the provided spares.
- **Battery Care:** Store batteries in a cool, dry place. Do not overcharge or over-discharge. If storing for extended periods, charge to approximately 50%.
- **Storage:** When not in use, fold the drone arms to save space and store it in a safe, dry environment away from direct sunlight and extreme temperatures.

6. Troubleshooting

Problem	Possible Solution
Drone does not respond to controller.	Ensure both drone and controller are powered on and successfully bound (refer to Section 3.3). Check controller batteries.
Drone is unstable during flight.	Perform calibration (Section 3.3) on a flat, horizontal surface. Check for damaged propellers and replace if necessary. Avoid flying in windy conditions.
No live video feed on smartphone.	Ensure your smartphone is connected to the drone's Wi-Fi network. Restart the drone, controller, and app. Check app permissions.
Short flight time.	Ensure the battery is fully charged. Flight time can be affected by aggressive flying or strong winds. Consider purchasing additional 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
Remote Control Technology	Bluetooth
Maximum Range	120 Meters
Flight Time	12-15 Minutes
Charging Time	About 90 Minutes
Material	Plastic or Metal
Battery Type	Lithium Metal (1 included)
Product Dimensions	15.09"L x 14.04"W x 3.48"H (unfolded)
Item Weight	1.48 pounds

8. Warranty and Support

For warranty information, technical support, or further assistance, please refer to the warranty card included with your product or visit the official SIMREX store on Amazon:

Visit the SIMREX Store

Please retain your proof of purchase for any warranty claims.

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