

SIMREX X42

SIMREX X42 4K Drone User Manual

Model: X42

1. PRODUCT OVERVIEW

The SIMREX X42 is a foldable 4K drone designed for both beginners and experienced pilots. It features a 4K UHD camera for real-time FPV, brushless motors for stable flight, and various intelligent flight modes.



Image 1.1: The SIMREX X42 drone, its remote control, and two included batteries.

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Video 1.1: An overview of the SIMREX X42 Brushless Motor FPV Drone, highlighting its features and flight capabilities.

2. SETUP GUIDE

2.1 Battery Charging

Ensure both the aircraft battery and the remote control are fully charged before use.

- **Aircraft Battery:** Insert the battery into the USB charging cable. The red light will turn off once fully charged.
- **Remote Control:** Insert the remote control into the USB charging cable. The red light will turn off once fully charged.

2.2 Drone Assembly

1. **Expand the Drone:** Carefully unfold the drone arms until they lock into position.

2. **Install Batteries:** Distinguish between the front and back sides of the battery. Insert the battery into the drone's battery compartment. To remove, press and hold the button at the bottom of the battery.
3. **Install Protective Frame:** Align the protective frame with the position of the aircraft arm and install it securely.

2.3 Frequency Matching & Calibration

1. **Power On Aircraft:** Turn on the aircraft power switch. The aircraft lights will flash.
2. **Power On Remote Control:** Turn on the power switch of the remote control. The buzzer will emit two beeps, and the aircraft lights will become longer and brighter, indicating that frequency matching is complete.
3. **Calibration:** Simultaneously turn both control sticks on the remote control to the lower-left corner. The aircraft lights will flash and then remain on, indicating that calibration is complete.

What should we do before the drone takes off?

Simultaneously push both control sticks of the remote controller to the lower-left 45-degree direction or the lower-right 45-degree direction. The aircraft's indicator light will flash and then stay steadily on, and the remote controller will emit a "beep" sound, indicating the level calibration is complete.



Image 2.1: Performing pre-flight calibration by moving both remote control sticks to the lower-left position.

2.4 Mobile App Installation & Connection

1. **Install Phone Rack:** Pull out the bracket on the remote control and install your smartphone securely.
2. **Download App:** Scan the QR code in the instruction manual to download and install the corresponding SIMREX drone app (e.g., SIMREX Zoomy).
3. **Connect WiFi:** Open your mobile phone's WiFi settings and connect to the WiFi signal emitted by the drone (e.g., SIMREX-X42-cafc29).
4. **Launch App:** Open the drone app after a successful WiFi connection.

3. OPERATING INSTRUCTIONS

3.1 Basic Flight Controls

- **One-Click Takeoff/Landing:** Short press the takeoff/landing button on the remote control. The aircraft will automatically ascend or descend.
- **Altitude Control (Left Stick Up/Down):** Pushing the left control lever upwards or downwards will make the aircraft rise or fall.
- **Yaw Control (Left Stick Left/Right):** Pushing the left control lever to the left or right will make the aircraft turn left or right.
- **Forward/Backward Flight (Right Stick Up/Down):** Pushing the right control lever upwards or downwards will make the aircraft fly forward or backward.
- **Left/Right Flight (Right Stick Left/Right):** Pushing the right control lever to the left or right will make the aircraft fly to the left or right.

3.2 Advanced Flight Features

- **Speed Adjustment:** Press the gear button on the remote control to cycle through three available speed settings (Low, Medium, High).
- **360° Flips:** Click the roll button and move the right joystick in any direction to perform a 360° flip.
- **Headless Mode:** In headless mode, the drone's orientation is relative to the pilot, making it easier to control without worrying about the drone's front direction.
- **Optical Flow Positioning & Altitude Hold:** These features ensure stable hovering and steady flight, ideal for capturing clear photos and videos.
- **Trajectory Flight (Tap Fly):** Plan a custom flight path directly on your smartphone screen, and the drone will follow it automatically.

Master the Skies with 3 Speed Modes

Beginner-Friendly and Easy to Learn



Image 3.1: Visual representation of the drone's three speed modes, one-key takeoff/landing, headless mode, and optical flow positioning.



Image 3.2: The drone executing a 360° flip and navigating a pre-set Waypoints Fly route.

3.3 Camera Operation

- **4K UHD Camera & Real-Time FPV:** The drone is equipped with a 4K UHD camera that provides live WiFi FPV directly to your smartphone app.
- **Camera Up/Down Adjustment:** By pressing the dedicated button on the remote control, the camera angle can be fine-tuned up or down.
- **Take Photos:** Short press the camera button on the remote control. The mobile app will automatically take photos. Alternatively, use gesture control (V-gesture) for photos.
- **Record Videos:** Short press the video button on the remote control. The mobile app will automatically record videos. Alternatively, use gesture control (palm gesture) for videos.
- **Voice Control:** Control your drone hands-free with voice commands for various actions, including taking photos and videos.

Voice Control

Talk to your app, take command



Image 3.3: The drone's voice control feature, showing commands such as 'Forward', 'Down', 'Left', 'Right', 'Backward', 'Fly', and 'Stop'.

Gesture Control



Take Photos



Take Video

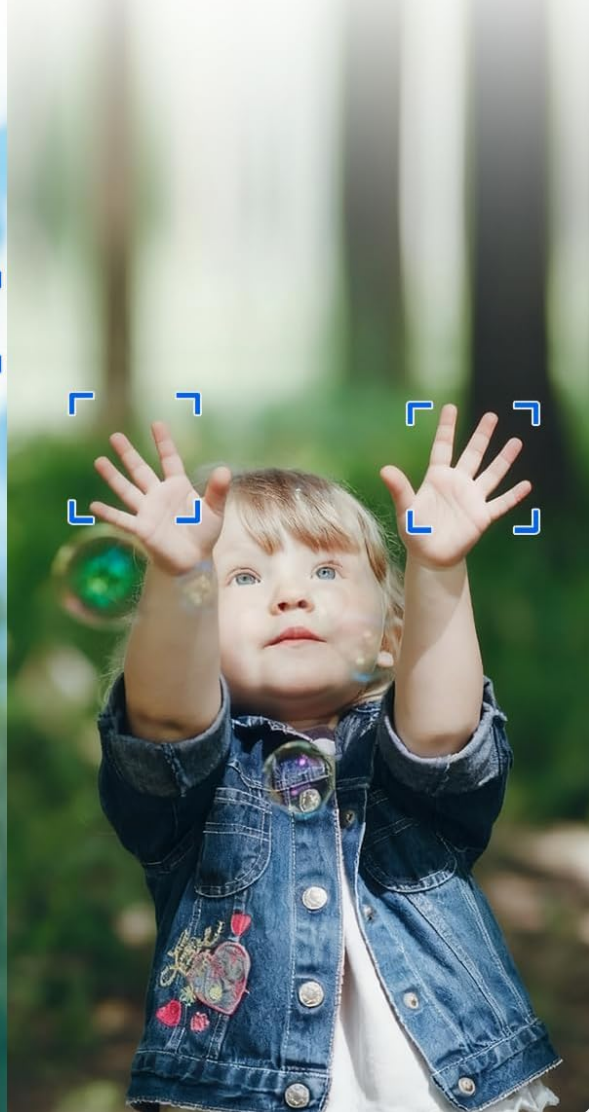


Image 3.4: Demonstrating gesture controls for the drone's camera: a 'V' gesture to take photos and a palm gesture to record video.

4. MAINTENANCE

- **Battery Care:** Always use the provided charging cable. Do not overcharge or completely drain the batteries. Store batteries in a cool, dry place when not in use.
- **Propeller Inspection:** Regularly check propellers for any damage (cracks, bends). Replace damaged propellers immediately using the spare parts provided.
- **Cleaning:** Use a soft, dry cloth to clean the drone body and camera lens. Avoid using harsh chemicals or liquids.
- **Storage:** Fold the drone arms for compact storage when not in use.

5. TROUBLESHOOTING

If you encounter any issues, please refer to the following common solutions or contact customer support.

- **Drone Not Responding:** Ensure both the drone and remote control are fully charged and properly paired. Re-perform frequency matching and calibration.
- **Poor Video Quality/Connection:** Ensure your smartphone is connected to the drone's WiFi network. Minimize interference by flying in open areas away from other WiFi signals.
- **Short Flight Time:** Ensure batteries are fully charged. Flight time can be affected by aggressive flying, wind conditions, and temperature.
- **Emergency Stop:** The drone features an emergency stop function for immediate shutdown in critical situations.
- **Signal-Loss Auto Landing:** If signal is lost, the drone is designed to auto-land within 3 seconds to prevent uncontrolled flight.
- **Motor Stuck-Rotor Protection:** This feature helps prevent motor damage if a propeller is obstructed.

6. SPECIFICATIONS

Feature	Detail
Model Number	X42
Product Dimensions	7.87 x 3.23 x 7.68 inches
Item Weight	1.17 pounds (approx. 139g for drone only)
Camera	4K UHD, WiFi FPV, 90° Adjustable
Motor Type	Brushless Motors
Flight Features	Optical Flow Positioning, Altitude Hold, Headless Mode, 3 Speed Settings, 360° Flips, Gesture Control, Voice Control, Trajectory Flight
Batteries	2 AA batteries required (included for remote), 2 drone batteries (included)
Manufacturer Recommended Age	14 years and up

Brushless Motor

Unlock performance through precision and efficiency



Greater Power



Higher Efficiency



Longer Lifespan

Image 6.1: The brushless motor design, offering enhanced performance and durability.

Adventure in Your Pocket

Your View, Limitless

≈139g



Image 6.2: The drone's foldable design and lightweight nature (approximately 139g).

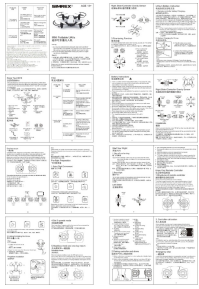


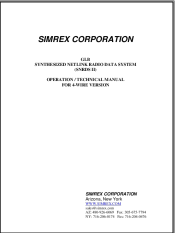

7. WARRANTY AND SUPPORT

For any issues or further assistance, our dedicated support team is available 24/7. Please refer to the full manual, quick start guide, or operation videos for comprehensive pre-flight support.

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Video 7.1: Product Introduction Video by Simrex, providing an overview of the drone's features and benefits.

Related Documents - X42

	<p>Simrex X900 Mini Foldable Drone: User Manual & Flight Guide</p> <p>Comprehensive guide for the Simrex X900 Mini Foldable Drone, covering setup, safety instructions, flight operations, controller functions, and battery management for optimal flying.</p>
	<p>SIMREX X500 User Manual: Drone Operation, Features, and Safety</p> <p>Comprehensive user manual for the SIMREX X500 drone, covering controller components, setup, flight controls, safety guidelines, troubleshooting, and product configuration. Learn how to operate your drone safely and effectively.</p>
	<p>SIMREX 2799-GPS Drone Instruction Manual</p> <p>Comprehensive instruction manual for the SIMREX 2799-GPS drone, covering flight safety, controls, modes, calibration, and battery care. Learn how to operate your drone safely and effectively.</p>
	<p>Simrex GLB SNRDS II 4-Wire Operation and Technical Manual</p> <p>Comprehensive operation and technical manual for the Simrex GLB Synthesized Netlink Radio Data System (SNRDS II) 4-Wire Version. Covers installation, configuration, adjustments, and commands for qualified technicians.</p>
	<p>Shenzhen SIMREX Technology Co., Ltd. Letter of Authorization for Drone Models</p> <p>Letter of Authorization from Shenzhen SIMREX Technology Co., Ltd. authorizing LGAI Technological Center S.A. for matters concerning drone equipment, including FCC applications. Lists various drone model numbers.</p>