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SIMREX X800

SIMREX X800 Drone User Manual

Model: X800 | Brand: SIMREX

1. Introduction

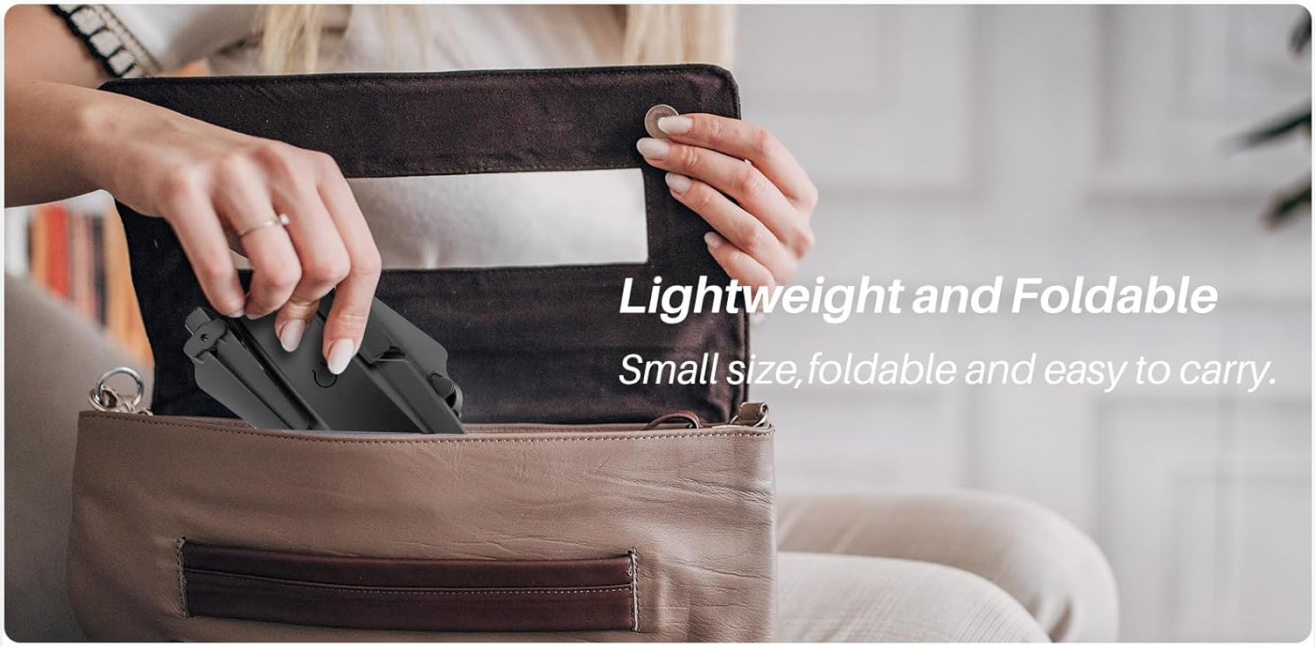
This manual provides essential information for the safe operation and maintenance of your SIMREX X800 Drone. Please read it thoroughly before first use to ensure proper functionality and to maximize your flying experience. The SIMREX X800 is a compact and versatile drone designed for both beginners and experienced users, featuring a 1080P camera, altitude hold, and various intelligent flight modes.

The SIMREX X800 Drone, its remote controller with phone holder, and two modular batteries.

2. What's in the Box

Verify that all components are present before proceeding with setup:

- SIMREX X800 Drone (Black)
- Remote Control
- Modular Batteries (2x 1000mAh)
- USB Charging Cable
- Spare Propeller Blades (1 set)
- Phone Holder for Remote Control
- User Manual



All components included in the SIMREX X800 Drone package, laid out for inspection.

3. Setup Guide

3.1. Battery Charging

The drone comes with two 1000mAh modular batteries. Ensure both are fully charged before use.

1. Connect the USB charging cable to the drone battery.
2. Plug the other end of the USB cable into a USB power adapter (not included) or a computer's USB port.
3. The indicator light on the battery will show charging status (refer to battery specific indicators for details).
4. Charging typically takes approximately 60-90 minutes per battery.

3.2. Installing Drone Battery

1. Unfold the drone arms.

2. Insert the fully charged modular battery into the battery compartment on the drone until it clicks securely into place.

3.3. Remote Control Setup

The remote control requires 2 LR44 batteries (included). Install them into the battery compartment on the back of the remote.

1. Attach the phone holder to the top of the remote control.
2. Place your smartphone securely into the phone holder.
3. Download and install the SIMREX drone application (refer to the QR code in the included manual for the app).
4. Power on the drone, then power on the remote control.
5. Connect your smartphone to the drone's Wi-Fi network (usually named 'SIMREX-XXXXXX').
6. Open the SIMREX app to establish a connection and view the camera feed.

3.4. Propeller Installation/Check

The drone comes with propellers pre-installed. If replacement is necessary, ensure correct orientation (A and B propellers) as indicated on the drone arms and propellers themselves.

4. Operating Instructions

Familiarize yourself with the drone's controls and features before attempting flight.

4.1. Basic Flight Preparation

1. Ensure the drone is placed on a flat, level surface.
2. Perform gyroscope calibration by pushing both joysticks down and to the left/right simultaneously (refer to the specific manual for exact combination).
3. Ensure a stable Wi-Fi connection between your phone and the drone for FPV (First Person View) and app control.

4.2. One Key Start/Landing

This feature simplifies takeoff and landing, making it ideal for beginners.

- Press the One Key Start button on the remote control or in the app. The drone will automatically take off and hover at a stable altitude.
- Press the One Key Landing button. The drone will slowly descend and land automatically.

The SIMREX X800 Drone demonstrating One Key Start/Landing, Headless Mode, and Optical Flow Positioning for ease of use.

4.3. Altitude Hold & Optical Flow Positioning

These features contribute to stable flight and precise hovering.

- **Altitude Hold:** The drone maintains a fixed height, allowing for stable video and photo capture without constant throttle input.
- **Optical Flow Positioning:** Utilizes a bottom-mounted camera to detect ground patterns, enabling the drone to hover accurately in position, especially useful indoors or in low-wind conditions.

Children operating the drone, highlighting the Altitude Hold function for stable flight.

4.4. Headless Mode

In Headless Mode, the drone's orientation is relative to the pilot, not the drone's front. This simplifies control, as pushing the joystick forward will always move the drone away from you, regardless of which way the drone is facing.

- Activate Headless Mode by pressing the dedicated button on the remote.
- Calibrate Headless Mode before flight for accurate control.

4.5. Waypoint Fly

Plan your flight path directly on your smartphone screen.

- Open the SIMREX app and select the Waypoint Fly function.
- Draw a desired flight path on the map displayed on your phone.
- The drone will automatically follow the designated route.

4.6. 3D Flip

Perform exciting aerial acrobatics with a single button press.

- Ensure sufficient altitude (at least 3 meters) before attempting a 3D flip.
- Press the 3D Flip button and move the right joystick in the desired flip direction (forward, backward, left, or right).

4.7. Speed Adjustment

The drone offers three speed modes to suit different skill levels and flying conditions.

- Toggle between Low, Medium, and High speeds using the speed switch button on the remote.
- Start with Low speed for learning and indoor flight, gradually increasing as you gain confidence.

Visual representation of the drone's Waypoint Flight, 360° Flip, and adjustable Three Speed functions.

4.8. Camera Operation

The SIMREX X800 is equipped with a 1080P camera with a 90° adjustable lens.

- View the live camera feed on your smartphone via the SIMREX app.
- Use the app to capture photos and record videos directly to your phone's storage.
- Adjust the camera lens angle manually before flight for optimal viewing.

The drone's 1080P HD Wi-Fi camera with a 90° adjustable lens, capable of capturing clear images and videos.

4.9. Gravity Control

Control the drone's flight motion by tilting your mobile phone.

- Activate Gravity Control within the SIMREX app.
- Tilt your phone forward, backward, left, or right to control the drone's corresponding movement.

4.10. Flight Environment Considerations

- The SIMREX X800 is recommended for **indoor use**.
- If flying outdoors, operate only in **windless conditions** to maintain control and prevent loss.
- Always maintain visual line of sight with the drone.

- Avoid flying near obstacles, people, or animals.

5. Maintenance

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

5.1. Cleaning

- Use a soft, dry cloth to clean the drone body and camera lens.
- Avoid using harsh chemicals or solvents.
- Ensure no dust or debris obstructs the optical flow sensor on the bottom of the drone.

5.2. Propeller Replacement

In case of damage, replace propellers promptly.

1. Power off the drone.
2. Carefully remove the damaged propeller.
3. Install a new propeller, ensuring it matches the 'A' or 'B' marking on the drone arm and the propeller itself. Incorrect installation will prevent flight.

5.3. Battery Care

- Do not overcharge or over-discharge the batteries.
- Store batteries in a cool, dry place away from direct sunlight and extreme temperatures.
- If not used for an extended period, charge batteries to approximately 50% capacity.

6. Troubleshooting

Refer to this section for solutions to common issues.

Problem	Possible Cause	Solution
Drone does not respond to remote.	Not paired; low battery (drone/remote); interference.	Ensure drone and remote are powered on and paired. Charge batteries. Move to an area with less interference.
Drone drifts during flight.	Gyroscope not calibrated; windy conditions; uneven propeller.	Perform gyroscope calibration. Fly in windless conditions. Check propellers for damage and replace if necessary.
No camera feed on phone.	No Wi-Fi connection; app not open; phone settings.	Connect phone to drone's Wi-Fi. Open the SIMREX app. Check phone's Wi-Fi settings.

Problem	Possible Cause	Solution
Short flight time.	Battery not fully charged; aged battery; aggressive flying.	Ensure batteries are fully charged. Consider replacing old batteries. Fly at lower speeds.
Drone crashes unexpectedly.	Out of range; low battery; strong wind; pilot error.	Keep drone within control range. Monitor battery levels. Avoid windy conditions. Practice basic controls.

7. Specifications

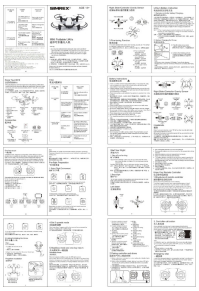
Feature	Detail
Brand	SIMREX
Model Name	X800
Color	Black
Video Capture Resolution	1080p
Special Features	360 Degree Flip, Adjustable Camera, Foldable Design, Long Battery Life, One Key Rotation (Start/Landing), Altitude Hold, Optical Flow Positioning, Headless Mode, Waypoint Fly, Gravity Control, 3 Speeds
Connectivity Technology	USB (for charging), Bluetooth (Remote Control)
Included Components	Drone, Remote Control, 2x Batteries, USB Charger, Spare Blades, Phone Holder
Skill Level	All (Beginner-friendly)
Item Weight	0.21 Pounds (approx. 96g)
Material	Plastic
Battery Cell Composition	Lithium Ion (Drone), LR44 (Remote)
Product Dimensions	1.9"L x 4.5"W x 1.3"H (Folded)
Flight Time	Up to 22 minutes (with 2 batteries)

8. Support and Warranty

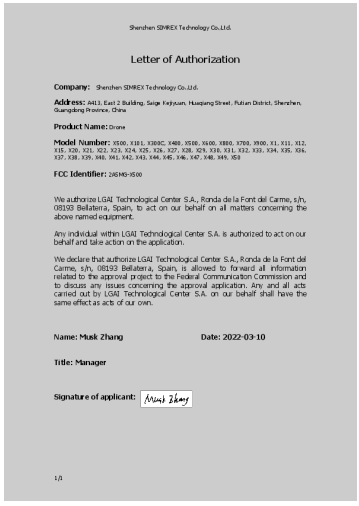
For any questions, technical assistance, or warranty claims regarding your SIMREX X800 Drone, please contact

the seller or manufacturer directly through your purchase platform. Keep your proof of purchase for any warranty-related inquiries.
Optional protection plans are available for purchase separately to extend coverage beyond the standard manufacturer's warranty.

Related Documents

	SIMREX 2799-GPS Drone Instruction Manual 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.
	Simrex X900 Mini Foldable Drone: User Manual & Flight Guide Comprehensive guide for the Simrex X900 Mini Foldable Drone, covering setup, safety instructions, flight operations, controller functions, and battery management for optimal flying.
	Shenzhen SIMREX Technology Co., Ltd. Letter of Authorization for Drone Models 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.
	Simrex GLB SNRDS II 4-Wire Operation and Technical Manual 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.

Documents - SIMREX – X800



Shenzhen SIMREX Technology Co.,Ltd.

Letter of Authorization

Company: Shenzhen SIMREX Technology Co.,Ltd.

Address: A413, East 2 Building, Saige Kejiyuan, Huaqiang Street, Futian District, Shenzhen, Guangdong Province, China

Product Name: Drone

Model Number: X500, X101, X300C, X400, X500, X600, X800, X700, X900, X1, X11, X12, X15, X20, X21, X22, X23, X24, X25, X26, X27, X28, X29, X30, X31, X32, X33, X34, X35, X36, X37, X38, X39, X40, X41, X42, X43, X44, X45, X46, X47, X48, X49, X50

FCC Identifier: 2A5MG-X500

We authorize LGAI Technological Center S.A., Ronda de la Font del Carme, s/n, 08193 Bellaterra, Spain, to act on our behalf on all matters concerning the above named equipment.

Any individual within LGAI Technological Center S.A. is authorized to act on our behalf and take action on the application.

We declare that authorize LGAI Technological Center S.A., Ronda de la Font del Carme, s/n, 08193 Bellaterra, Spain, is allowed to forward all information related to the approval project to the Federal Communication Commission and to discuss any issues concerning the approval application. Any and all acts carried out by LGAI Technological Center S.A. on our behalf shall have the same effect as acts of our own.

Name: Musk Zhang **Date: 2022-03-10**

Title: Manager

Signature of applicant:

1/1

[Shenzhen SIMREX Technology Co., Ltd. Letter of Authorization for Drone Models]

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.

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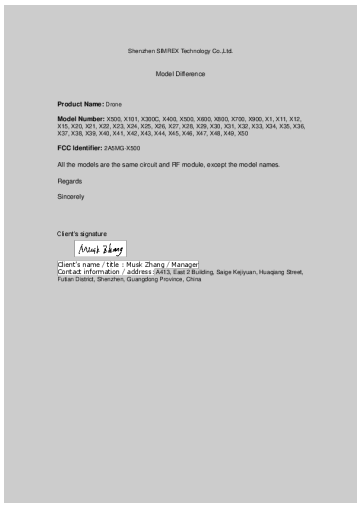

Shenzhen SIMREX Technology Co.,Ltd.

Model Difference

Product Name: Drone

Model Number: X500, X101, X300C, X400, X500, X600, X800, X700, X900, X1, X11, X12, X15, X20, X21, X22, X23, X24, X25, X26, X27, X28, X29, X30, X31, X32, X33, X34, X35, X36, X37, X38, X39, X40, X41, X42, X43, X44, X45, X46, X47, X48, X49, X50

FCC Identifier: 2A5MG-X500

All the models are the same circuit and RF module, except the model names.

Regards

Sincerely

Client's signature

Client's name / title : Musk Zhang / Manager
Contact information / address :A413, East 2 Building, Saige Kejiyuan, Huaqiang Street, Futian District, Shenzhen, Guangdong Province, China

[pdf] Decleration of Conformity

tom Model family declaration Shenzhen SIMREX Technology Co Ltd X500 2A5MG 2A5MGX500 x500

Shenzhen SIMREX Technology Co.,Ltd. Model Difference Product Name: Drone Model Number: X500, X101, X300C, X400, X500, X600, **X800**, X700, X900, X1, X11, X12, X15, X20, X21, X22, X23, X24, X25, X26, X27, X28, X29, X30, X31, X32, X33, X34, X35, X36, X37, X38, X39, X40, X41, X42, X43, X44, X45, X46, X47,...

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