SIMREX X700

SIMREX X700 Drone User Manual

Model: X700

1. INTRODUCTION

Welcome to the SIMREX X700 Drone User Manual. This guide provides comprehensive instructions for setting up, operating, maintaining, and troubleshooting your X700 drone. Please read this manual carefully before operating the drone to ensure safe and optimal performance.

Safety Precautions

- Always operate the drone in open, clear areas, away from people, animals, and obstacles.
- Do not fly in strong winds, rain, snow, or other adverse weather conditions.
- Ensure the drone's battery is fully charged before each flight.
- Keep hands and face away from rotating propellers.
- Familiarize yourself with all controls before attempting flight.
- For beginners, it is recommended to fly with propeller protective covers in an open indoor space.

2. PACKAGE CONTENTS

Verify that all items are present in your package:

- SIMREX X700 Drone
- Remote Control
- Propellers (including spares)
- Batteries (2 x 600mAh drone batteries, AAA batteries for remote included)
- USB Charging Cable
- User Manual (this document)

Figure 2.1: Package Contents of the SIMREX X700 Drone.

3. DRONE AND REMOTE COMPONENTS

3.1 Drone Overview

The SIMREX X700 drone features a compact design with integrated propeller guards for enhanced safety. It is equipped with dual cameras for 720P HD imaging and optical flow positioning.
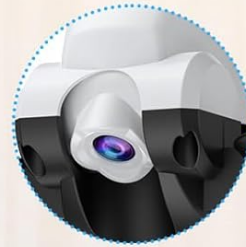
Figure 3.1: X700 Drone with 720P Dual Camera Design. The camera lens can be manually adjusted 90 degrees for varied perspectives.

3.2 Remote Control Layout

The remote control provides intuitive operation for the drone. Familiarize yourself with the button functions:

Figure 3.2: Remote Control Layout. Key functions include joysticks for movement, buttons for one-key operations, speed adjustment, and fine-tuning.

4. SETUP GUIDE

4.1 Battery Charging

The drone is equipped with two 600mAh batteries. Use the provided USB charging cable to charge the drone batteries. Connect the USB cable to a 5V adapter (not included) and then to the drone battery. The indicator light on the charger will show charging status. Ensure batteries are fully charged before flight.

4.2 Propeller Installation/Replacement

The drone uses 'A' and 'B' type propellers. Ensure you match the correct propeller type to the corresponding motor arm as indicated on the drone. Incorrect installation can affect flight stability.

Figure 4.1: Propeller Replacement Guide. Ensure 'A' propellers are on 'A' arms and 'B' propellers on 'B' arms.

4.3 App Download and Connection

To utilize advanced features and real-time FPV, download the official SIMREX X700 app from your device's app store. Once installed:

1. Power on the drone.
2. On your smartphone, go to Wi-Fi settings and connect to the network named "SIMREX-X700-[unique ID]".
3. Open the SIMREX X700 app. The drone's camera feed should appear, indicating a successful connection.

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Video 4.1: SIMREX X700 User Manual Guide Video. This video demonstrates unpacking, preparation, remote control operation, and APP operation, including connection and basic flight controls.

5. OPERATING INSTRUCTIONS

5.1 Basic Flight Operations

- **One Key Take-off/Landing:** Short press the dedicated button on the remote or in the app to automatically take off or land. Long press for emergency stop.

Altitude Hold

In altitude hold mode, drone will automatically control the throttle to achieve altitude maintenance, so that hovering is more stable.

Figure 5.1: One Key Take-off and Landing. Simple operation for beginners.

- **Altitude Hold:** The drone will automatically maintain a stable hovering height, making it easier to control.

Figure 5.2: Altitude Hold Function. The drone maintains a stable height automatically.

- **Optical Flow Positioning:** This sensor assists in improving flight performance by continuously monitoring ground movement, helping the drone maintain stability and hover accurately.

OPTICAL FLOW POSITIONING TECHNOLOGY

-Capture Ground's Photographs

-Stabilize Drone's Flight

Figure 5.3: Optical Flow Positioning Technology. Captures ground photographs and stabilizes drone flight.

- **Headless Mode:** In Headless Mode, the drone's orientation is relative to the pilot, eliminating the need to adjust its position before flight. This simplifies control for beginners.

- **3-Speed Adjustment:** Switch between low, medium, and high speeds to match your skill level and flying environment.

- **360° Flips:** Perform exciting aerial stunts with a single button press.

Figure 5.4: 360° Flips. Enjoy dynamic flight with stunt capabilities.

5.2 Advanced App Control Features

When connected to the app, the SIMREX X700 offers additional intelligent flight modes:

- **Gravity Control:** Intuitively guide the drone by tilting your smartphone.
- **Trajectory Flight:** Draw a flight path on your smartphone screen, and the drone will automatically follow the designated route.
- **Real-Time FPV:** View live 720P HD video feed directly on your smartphone screen.
- **Photo/Video Capture:** Record videos and take photos directly from the app.
- **Digital Zoom:** Zoom in or out on the camera feed via the app.
- **Filter Options:** Apply various filters to your captured photos and videos directly within the app.

6. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the drone and remote control. Do not use liquid cleaners.
- **Propeller Care:** Regularly inspect propellers for damage. Replace any bent or broken propellers immediately using

the provided spares. Ensure correct 'A' and 'B' propeller placement.

- **Battery Storage:** Store batteries in a cool, dry place away from direct sunlight. For long-term storage, charge batteries to approximately 50% capacity.
- **General Storage:** Store the drone and its accessories in a safe place to prevent damage.

7. TROUBLESHOOTING

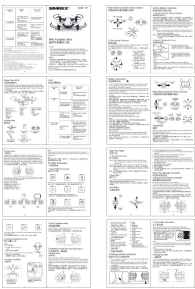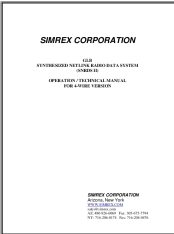| Problem	Possible Cause	Solution
Drone does not respond to remote/app.	Not paired, low battery, interference.	Ensure drone and remote are powered on and paired. Charge batteries. Move away from other Wi-Fi devices.
Drone flies erratically or drifts.	Uncalibrated, damaged propellers, strong wind.	Perform calibration (via app or remote). Replace damaged propellers. Fly in calm conditions. Use fine-tuning controls.
App connection issues / No FPV feed.	Incorrect Wi-Fi connection, app glitch, phone compatibility.	Verify connection to "SIMREX-X700" Wi-Fi. Restart app and drone. Check app compatibility with your phone model.
Short flight time.	Battery not fully charged, old battery.	Ensure batteries are fully charged. Consider replacing old batteries if performance degrades significantly.
Propellers frequently detach.	Improper installation, worn propeller shafts.	Ensure propellers are securely pushed onto the motor shafts. If shafts are worn, contact support.

8. PRODUCT SPECIFICATIONS

Brand	SIMREX
Model Name	SIMREX X700
Color	White
Item Weight	0.36 Kilograms (12.7 ounces)
Product Dimensions	6.5"L x 5.6"W x 4"H
Video Capture Resolution	720p (1280x720 Pixels)
Connectivity Technology	Wi-Fi
Battery Capacity	1800 Milliamp Hours (total for 2 batteries, 600mAh each)
Battery Cell Composition	Lithium
Skill Level	Beginner
Optical Sensor Technology	Optical Flow
Operating Temperature	10 Degrees Celsius

9. WARRANTY AND SUPPORT

SIMREX provides technical support and quality warranty for its products. If you encounter any issues with your drone, remote control, or the accompanying app, please contact the seller or SIMREX customer support immediately for assistance.

For product problems, technical support, quality warranty, and refund services are available. Please refer to your purchase documentation for specific warranty periods and contact details.

Related Documents - X700

	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.
	SIMREX X500 User Manual: Drone Operation, Features, and Safety 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.
	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.
	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.