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SIMREX X300C

SIMREX X300C Mini Drone User Manual

Model: X300C

Introduction

Thank you for purchasing the SIMREX X300C Mini Drone. This manual provides essential information for the safe operation, setup, and maintenance of your drone. Please read it thoroughly before first use to ensure proper function and to maximize your flying experience.



Image: The SIMREX X300C Mini Drone, showcasing its portable and foldable design with various feature icons.

What's in the Box

Verify that all components are present in the package:

- SIMREX X300C Drone
- Remote Control (Transmitter)
- 2 x Modular Batteries
- USB Charging Cable

- Spare Propellers
- Propeller Protective Covers
- User Guide
- Phone Holder



Image: A visual representation of all items included in the SIMREX X300C Mini Drone package, including the drone, remote, batteries, and accessories.

Product Overview

Key Features

- **Optical Flow Positioning:** Maintains stable hovering at a fixed height for clear photos and videos.
- **720P HD FPV Camera:** Captures high-definition aerial photos and videos with real-time transmission.
- **Foldable Design:** Compact and portable for easy transport.
- **Altitude Hold:** Automatically maintains a set altitude, simplifying flight control.
- **Headless Mode:** Eliminates the need to adjust the drone's position before flight, making it easier for beginners.
- **3D Flip Function:** Performs 360° flips with a single button press.
- **Gravity Control:** Allows control of the drone by tilting your mobile device.
- **Multiple Speed Modes:** Adjust flight speed to suit different skill levels.
- **Safety Features:** Equipped with propeller protective covers, emergency stop, and low battery alarm.

Drone Components

Familiarize yourself with the main parts of your SIMREX X300C drone:

- **Propellers:** Four rotating blades for lift and movement.
- **Motors:** Drive the propellers.
- **Camera:** Front-mounted 720P HD camera for photo and video capture.
- **Optical Flow Sensor:** Located on the bottom for stable hovering.

- **Battery Compartment:** Houses the modular battery.
- **LED Indicator Lights:** Provide status information.



Image: The SIMREX X300C Mini Drone in its unfolded state, ready for flight.



Image: The SIMREX X300C Mini Drone highlighting its 720P HD WIFI Camera feature.

Setup

1. Charge the Battery

- Connect the USB charging cable to the drone battery and a USB power source (e.g., computer, USB adapter).
- The indicator light on the USB cable will show charging status. Charge until fully charged (approximately 60-80 minutes).
- Ensure the drone is powered off during charging.

2. Install Drone Battery

- Open the battery compartment on the drone.
- Insert the fully charged modular battery into the compartment.
- Close the battery compartment securely.

3. Prepare the Remote Control

- Install 3 AAA batteries (not included) into the remote control.
- Attach the phone holder to the remote control if you plan to use the FPV camera feature.



Image: The remote control for the SIMREX X300C drone, showing the phone holder attachment and various control buttons.

4. Unfold the Drone

- Gently unfold the drone's arms until they click into place.
- Ensure all arms are fully extended before flight.



Image: The SIMREX X300C Mini Drone demonstrating its foldable design, showing both folded and unfolded dimensions.

Operating Instructions

1. Power On and Pairing

- Place the drone on a flat, level surface.
- Press the power button on the drone to turn it on. The LED lights will flash.
- Turn on the remote control.
- Push the left joystick up and then down. The drone's lights will become solid, indicating successful pairing.

2. Calibration

- After pairing, perform gyroscope calibration by long-pressing the Gyro Calibration button (refer to remote diagram). The drone lights will flash rapidly and then become solid, indicating calibration is complete.

3. Takeoff and Landing

- **One Key Takeoff:** Short press the One Key Takeoff/Landing button. The drone will automatically ascend and hover at a stable height.
- **Manual Takeoff:** Push both joysticks down and outwards simultaneously to start the motors. Then, slowly push the left joystick up to ascend.
- **One Key Landing:** Short press the One Key Takeoff/Landing button again. The drone will automatically descend and land.
- **Manual Landing:** Slowly pull the left joystick down to descend.

4. Flight Controls

- **Left Joystick:** Up/Down for altitude (throttle), Left/Right for rotation (yaw).
- **Right Joystick:** Up/Down for forward/backward movement (pitch), Left/Right for sideways movement (roll).

5. Special Features

- **Altitude Hold:** The drone will automatically maintain its current altitude after takeoff.
- **Headless Mode:** Short press the Headless Mode button. The drone will orient itself relative to the remote control, regardless of its actual front direction. Press again to exit.
- **3D Flip:** Fly the drone to a height of at least 2 meters. Press the 3D Flip button and then push the right joystick in the desired flip direction (forward, backward, left, or right).
- **Speed Switch:** Short press the 3 Speeds Mode button to cycle through low, medium, and high-speed settings.
- **Gravity Control:** Activate via the mobile app. Tilt your smartphone to control the drone's direction.
- **Waypoints Fly:** Use the mobile app to draw a flight path, and the drone will follow it automatically.



Image: A child lying on the floor with the SIMREX X300C Mini Drone flying above, illustrating the Headless Mode feature.

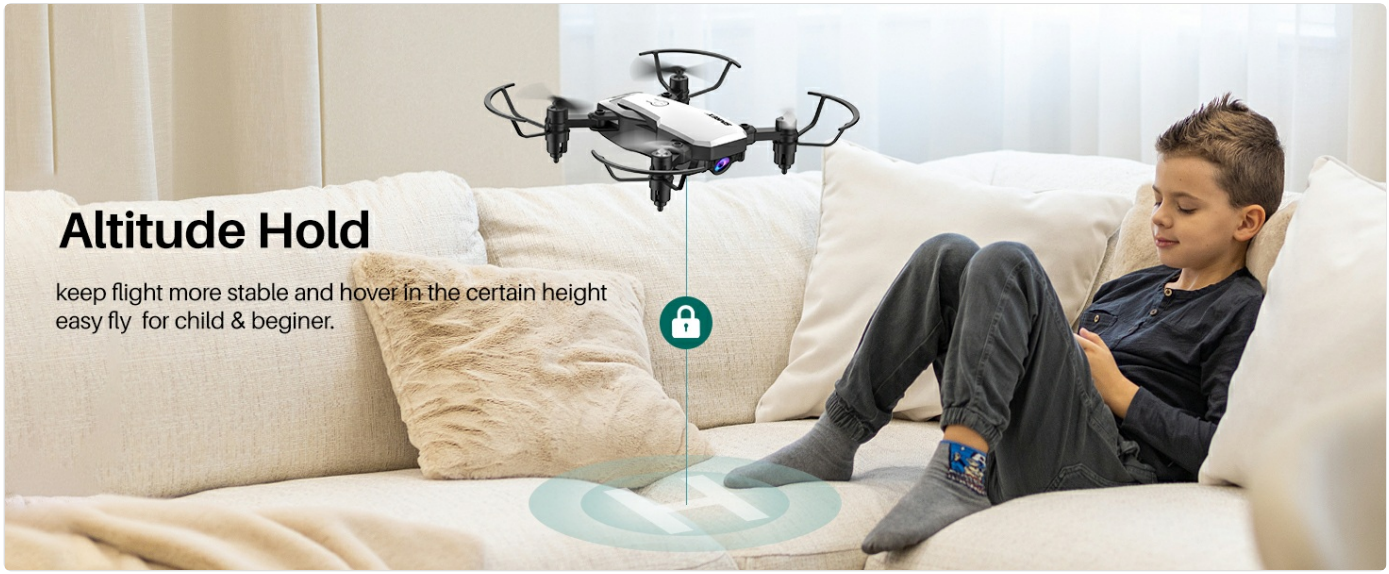


Image: A child sitting on a sofa with the SIMREX X300C Mini Drone hovering stably, demonstrating the Altitude Hold feature.



Image: A person performing a 3D flip with the SIMREX X300C Mini Drone, illustrating the 3D Flips feature.

Your browser does not support the video tag.

Video: An official video demonstrating the SIMREX X300C Mini Drone's features, including its foldable design, altitude hold, gravity sensor control, headless mode, and HD camera capabilities.

Maintenance

- **Propeller Inspection:** Regularly check propellers for damage or cracks. Replace damaged propellers immediately using the provided spares.
- **Cleaning:** Use a soft, dry cloth to clean the drone body and camera lens. Avoid using water or harsh chemicals.
- **Battery Care:** Store batteries in a cool, dry place. Do not overcharge or over-discharge. If not used for a long period, charge them to about 50% capacity every three months.
- **Storage:** When not in use, fold the drone and store it in a safe place to prevent damage.
- **Propeller Guards:** Ensure propeller protective covers are securely attached before each flight to prevent injury and damage.



Image: The SIMREX X300C Mini Drone flying indoors, highlighting its resilient protection covers for safety.

Troubleshooting

Problem	Possible Cause	Solution
Drone does not respond to remote.	Not paired, low battery (drone/remote), out of range.	Re-pair drone and remote. Charge batteries. Ensure drone is within 45 meters range.
Drone drifts during flight.	Gyroscope not calibrated, uneven surface at takeoff, wind interference.	Perform gyroscope calibration on a flat surface. Avoid flying in windy conditions. Use fine-tuning buttons on remote.
Camera not working or FPV feed is unstable.	App not connected, Wi-Fi interference, low battery.	Ensure the drone's Wi-Fi is connected to your phone. Restart the app and drone. Fly in an area with less Wi-Fi interference. Charge battery.
Short flight time.	Battery not fully charged, old battery, aggressive flying.	Ensure battery is fully charged. Consider replacing old batteries. Fly more gently.
Drone crashes easily.	Beginner pilot, high-speed mode, damaged propellers.	Practice in low-speed mode. Check and replace damaged propellers. Ensure propeller guards are installed.

Specifications

Feature	Detail
Brand	SIMREX
Model Name	X300C
Video Capture Resolution	720p (1280x720 Pixels)
Connectivity Technology	Wi-Fi

Feature	Detail
Remote Control Technology	Bluetooth
Control Type	Remote Control
Maximum Range	45 Meters
Battery Capacity	1 Amp Hours (Lithium Ion)
Skill Level	Beginner
Item Dimensions (L x W x H)	1"L x 1"W x 1"H (Unfolded dimensions are approximately 11.5x11.5x3.3cm)

Warranty and Support

For warranty information, technical support, or any inquiries regarding your SIMREX X300C Mini Drone, please refer to the contact details provided on the product packaging or visit the official SIMREX website. Keep your purchase receipt as proof of purchase for warranty claims.

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Model number, symptoms, what you tried, or the section of the manual you are using.

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