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TOPRCBOXS S8

TOPRCBOXS S8 GPS Drone User Manual

Model: S8 | Brand: TOPRCBOXS

1. INTRODUCTION

This manual provides essential instructions for the safe operation and maintenance of your TOPRCBOXS S8 GPS Drone. Please read this manual thoroughly before operating the drone to ensure proper usage and to prevent damage or injury.



Image: The TOPRCBOXS S8 Drone, designed for portability, shown held in a user's hand.

Key Features:

- **Smart GPS Functions:** Includes Auto-Return (loss of signal, out of range, low battery), auto takeoff/landing, steady hovering, Follow Me, and Orbit Flight.
- **4K HD Camera:** Features a 120° wide-angle lens with 90° remote control adjustment for stable and smooth image capture.
- **Extended Range:** Stable FPV video transmission up to 1968 feet (600 meters).
- **Long Flight Time:** Two batteries provide a total of 60 minutes of flight time.
- **Powerful Brushless Motors:** Ensures smoother flight, faster speeds, lower noise, and extended lifespan.
- **Lightweight Design:** Weighs under 249g, eliminating the need for FAA or Remote ID registration.

2. SETUP

2.1 Unfolding the Drone

1. Carefully unfold the rear arms of the drone.
2. Then, unfold the front arms.

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Video: Instructions on how to prepare the S8 GPS Drone for flight, including unfolding the arms.

2.2 Battery Installation

1. Ensure the drone battery is fully charged before installation.
2. Insert the charged battery into the drone's battery compartment.
3. Push the battery firmly until it clicks into place, ensuring it is fully seated.
4. To remove the battery, press and hold the release button at the bottom of the battery and pull it out.



Image: The S8 Drone and its included accessories, such as batteries, remote control, and spare propellers.

2.3 Propeller Installation/Replacement

Each propeller is marked with either 'A' or 'B'. Install propellers according to the markings on the drone's motor arms (e.g., 'A' propellers on 'A' marked arms, 'B' on 'B' marked arms).

1. To remove a propeller, loosen the screws securing it to the motor.

2. Align the new propeller (A or B) with the corresponding motor arm.
3. Secure the propeller by tightening the screws.
4. **Important:** Incorrect propeller installation will prevent the drone from taking off.

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Video: Detailed guide on how to replace the propellers on the S8 FPV Foldable RC Quadcopter.

2.4 Remote Controller Setup

1. Remove the two joystick accessories from the bottom of the remote control.
2. Install them into the designated slots on the top of the remote control.
3. Turn on the drone first by pressing its power button.
4. Place the drone on a level surface with its front facing forward. The drone's LEDs will blink.
5. Turn on the remote controller. It will emit a long beep, and the green LEDs on the drone's front arms will become solid, while the red LEDs on the rear arms will continue blinking, indicating successful pairing.



Image: The remote controller for the S8 Drone, featuring a built-in HD LCD screen.

3. OPERATING INSTRUCTIONS

3.1 Compass Calibration

Compass calibration is recommended if the return position is not accurate or when flying in a new location for the first time.

1. Ensure the drone is on a flat surface.
2. Long press the designated button on the controller (refer to controller diagram for exact button).
3. Simultaneously push both joysticks to the bottom-left corner. The controller will beep, and all drone LEDs will flash quickly, indicating it's ready for calibration.
4. Keep the drone parallel to the floor and spin it horizontally about three times.
5. Once the controller beeps again and the red LEDs on the rear arms turn solid (from blinking), proceed to the next step.
6. Point the head of the drone upward and spin it about three times.
7. After the controller beeps and the LEDs on the front arms turn solid green (from blinking), and the red LEDs on the rear arms start blinking, calibration is complete.
8. If the drone has found enough GPS satellites (indicated by solid red LEDs on rear arms), it is ready for flight.

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Video: Guide on calibrating the compass of the S8 GPS Drone with 4K Camera.

3.2 GPS Signal Acquisition & Takeoff

After pairing, the drone will automatically search for GPS satellites. This process may take about 1 minute. Once the controller shows 7 or more satellite connections (icon turns green), the drone is ready for takeoff.

1. To unlock the motors, position both joysticks downward and outward simultaneously to form an inverted 'V'.
2. Once motors are unlocked, short press the "take off" button. The drone will ascend to an altitude of approximately 5 feet and hover.
3. You can now use the controller to fly the drone.

Important Note: If the GPS signal is weak or if you intend to fly indoors, long press the "GPS Switch" button to exit GPS mode and enter indoor mode. The drone will then be ready for unlocking and takeoff.

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Video: Instructions on preparing the S8 GPS Drone for flight, including GPS signal acquisition and takeoff procedures.

3.3 Basic Flight Operations

Important Note for Beginners: We recommend facing the tail of the drone towards the pilot for easier flight orientation and control.

- **Forward:** Push up the right joystick.
- **Backward:** Pull down the right joystick.
- **Fly Left:** Push the right joystick to the left.
- **Fly Right:** Push the right joystick to the right.
- **Ascend:** Push up the left joystick.
- **Descend:** Pull down the left joystick.
- **Turn Left:** Push the left joystick to the left.
- **Turn Right:** Push the left joystick to the right.

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Video: Demonstrates basic flight operations of the S8 GPS Drone, including directional movements and altitude control.

3.4 Speed Switch

The drone offers two speed levels: Low and High. By default, it operates at Low speed.

- To increase speed, dial the wheel on the controller to the right. The controller will emit a "beep beep" sound, and the display will indicate High speed level.
- To decrease speed, dial the wheel to the left. The controller will emit a "beep" sound, and the display will indicate Low speed level.

3.5 Camera Angle Adjustment

You can adjust the camera angle using the dedicated button on the top right corner of the controller.

- Press the down button to tilt the camera downwards.
- Press the up button to tilt the camera upwards.

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Video: Demonstrates basic flight operations of the S8 GPS Drone, including directional movements and altitude control.

3.6 Follow Me Mode

When Follow Me mode is enabled, the drone will track your movement by following the GPS signal from your controller.

- Ensure a safe distance (16-98 ft) between you and the drone.
- Activate this function only in open areas without obstacles, as the drone is not equipped with obstacle avoidance.
- Weak phone GPS signals or signal interference (buildings, trees, mobile network congestion) may affect this mode.
- This function cannot be activated if the drone's battery is low.
- To activate, short press the "Follow Me" button on the controller.
- To exit, short press the "Follow Me" button again or push the right joystick in any direction.

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Video: Demonstration of the S8 Drone's Follow Me function, tracking the controller's GPS signal.

3.7 Orbit Flight Mode

In Orbit Flight mode, the drone will circle around a set point (its current position when activated) at a specified radius.

- Ensure the controller is successfully connected to the drone and the GPS icon on the screen is green.
- Long press the "Orbit Flight" button to activate the function. The drone will record its current position as the center.
- The drone will then fly away to a default radius of 15 feet and begin circling clockwise.
- To reduce the radius, pull down the right joystick.
- To increase the radius, push up the right joystick.
- To change the direction of orbit, push the right joystick to the left or right.
- To turn off Orbit Flight, long press the "Orbit Flight" button again.

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Video: Demonstration of the S8 GPS Drone's Orbit Flight feature, showing the drone circling a point.

3.8 Auto Return

The S8 drone features intelligent GPS Auto-Return, ensuring safe return in various scenarios:

- **Signal Loss Return:** The drone automatically returns if it loses connection with the controller.
- **Low Power Return:** The drone returns automatically when its battery is low.
- **One-Key Return:** You can manually initiate return by pressing the dedicated Auto-Return button on the controller.

Intelligent GPS Auto Return



One Key Return



Low Power Return



Signal Loss Return



Image: The S8 Drone demonstrating its Intelligent GPS Auto Return features.

3.9 Landing

During flight, press the "take off/landing" button again. The drone will slowly descend to the ground and land automatically.

4. MAINTENANCE

- Regularly inspect propellers for damage. Replace any bent or broken propellers immediately.
- Keep the drone and remote controller clean. Use a soft, dry cloth to wipe surfaces.
- Store the drone and batteries in a cool, dry place away from direct sunlight and extreme temperatures.
- Ensure batteries are fully charged before storage if storing for extended periods, and periodically recharge them to maintain battery health.
- Check all connections and screws periodically to ensure they are secure.

5. TROUBLESHOOTING

- **Drone fails to take off:**

- Ensure propellers are installed correctly (A on A, B on B).
 - Check if the drone and controller are successfully paired.
 - Verify that the battery is sufficiently charged.
 - Perform compass calibration if necessary.
- **Unstable flight/Drifting:**
 - Recalibrate the compass.
 - Ensure the drone is placed on a level surface before takeoff.
 - Check for strong winds or drafts if flying indoors.
- **Weak GPS signal/Cannot connect to satellites:**
 - Ensure you are in an open outdoor area with a clear view of the sky.
 - Avoid flying near tall buildings, trees, or areas with high electromagnetic interference.
 - If flying indoors, switch to indoor mode by long-pressing the "GPS Switch" button.
- **Controller not pairing with drone:**
 - Turn off both the drone and the controller.
 - Restart the drone first, then the controller, and repeat the pairing steps.
 - Ensure both devices have sufficient battery charge.
- **Camera not responding:**
 - Check the connection between the camera and the drone.
 - Ensure the TF card is correctly inserted if recording.
 - Restart the drone and controller.

6. SPECIFICATIONS

Brand	TOPRCBOXS
Model Name	S8
Item Weight	Under 249g (0.035 ounces)
Product Dimensions	11.8"L x 9"W x 2.2"H
Video Capture Resolution	4K
Video Output Resolution	4 megapixels
Camera Features	120° Wide-Angle & 90° Adjustable Camera
Max Flight Distance	1968 feet (600 meters)
Flight Time	Up to 60 minutes (with 2 batteries)
Motor Type	Brushless Motor
Control Type	Remote Control (RF)
Connectivity Technology	USB, Wi-Fi (for FPV)
Supported Image Format	JPEG, RAW (DNG)

Video Capture Format	MP4
Skill Level	Beginner
Included Components	Drone, Remote Control, 2 Batteries, Micro SD Card, User Manual, USB Charger, Handbag, Spare Propellers

7. WARRANTY AND SUPPORT

Specific warranty details are not provided in the product information. Please refer to the product packaging or contact TOPRCBOXS customer support for warranty information and technical assistance.

For further support, please visit the official TOPRCBOXS website or contact their customer service department.