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SOTAONE S450

SOTAONE S450 Drone User Manual

Model: S450

INTRODUCTION

Thank you for choosing the SOTAONE S450 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 optimal performance and to prevent damage.



Image: The SOTAONE S450 drone, its remote controller, two batteries, spare propellers, a screwdriver, and a USB charging cable are displayed. The drone is shown in both unfolded and folded configurations.

WHAT'S IN THE BOX

- SOTAONE S450 Drone
- Remote Controller
- 1080P HD Camera (integrated)
- Modular Batteries (x2)
- Spare Propellers (x4)
- USB Charging Cable
- Screwdriver
- User Manual (this document)

PRODUCT OVERVIEW

The SOTAONE S450 is a mini foldable drone designed for beginners, featuring a 1080P HD camera for aerial photography and video recording. Its compact design makes it portable for various outdoor activities.



Image: The SOTAONE S450 drone is shown in both its unfolded and folded configurations, highlighting its compact design. Unfolded dimensions are 7.2"L x 6.9"W x 2.2"H, and folded dimensions are 4.7"L x 3.2"W x 2.2"H.

Key Features:

- **1080P HD Camera:** Equipped with a camera that supports WiFi FPV real-time transmission and 90° manual adjustment for capturing photos and videos.
- **Beginner-Friendly Controls:** Features One Key Take Off/Land, Altitude Hold, and Headless Mode for ease of use.
- **Extended Flight Time:** Two modular batteries provide up to 26 minutes of flight time.
- **Intelligent APP Control:** Supports gesture control, trajectory flight, and gravity sensor control via a smartphone app.
- **Foldable Design:** Compact and portable for easy transport and storage.
- **Durable Construction:** Includes full propeller guards for enhanced protection.

SETUP GUIDE

1. Battery Installation and Charging

1. **Drone Battery:** Insert the modular battery into the drone's battery compartment until it clicks securely. Ensure the battery is fully charged before flight. Use the provided USB charging cable to charge the batteries. A full charge typically takes 60-90 minutes.
2. **Remote Controller Batteries:** The remote controller requires 3 AAA batteries (not included). Open the battery compartment on the back of the controller and insert the batteries, observing correct polarity.

2. Propeller Installation

The drone comes with propellers pre-installed. If replacement is necessary, use the provided screwdriver to attach new propellers, ensuring they are correctly oriented (A and B type propellers must match their respective motor arms).

3. App Installation and Connection

1. Download the SOTAONE FPV app from your smartphone's app store (iOS or Android).
2. Power on the drone. The drone's Wi-Fi signal will become active.
3. On your smartphone, go to Wi-Fi settings and connect to the drone's Wi-Fi network (e.g., "SOTAONE-S450-XXXX").
4. Open the SOTAONE FPV app. The live video feed from the drone's camera should appear, indicating a successful connection.

OPERATING INSTRUCTIONS

1. Pre-Flight Checklist

- Ensure drone and controller batteries are fully charged.
- Check propellers for any damage and ensure they are securely attached.
- Choose an open, clear area free from obstacles, people, and animals.
- Ensure weather conditions are suitable (no strong winds or rain).

2. Pairing the Drone and Controller

1. Place the drone on a flat, level surface.
2. Power on the drone, then power on the remote controller.
3. Push the left joystick up then down. The indicator lights on the drone will stop flashing and remain solid, indicating successful pairing.

3. Basic Flight Controls



Image: An illustration showing the drone taking off and landing from a table. It indicates a short press for take-off/landing and a long press (3 seconds) for an emergency stop using the designated button on the controller.

- **One Key Take Off/Land:** Press the dedicated button on the controller for automatic take-off or landing.
- **Altitude Hold:** The drone will automatically maintain its current altitude, allowing for stable hovering.
- **Headless Mode:** In this mode, the drone's orientation is relative to the pilot, regardless of the drone's front direction. This simplifies control for beginners.
- **3 Speed Adjustments:** Cycle through different speed modes (Level 1, Level 2, Level 3) to match your skill level and flying environment.



Image: Two panels illustrating flight features. The left panel shows a drone flying over a child lying in grass, with arrows indicating movement in Headless Mode (North, South, East, West). The right panel shows a child running after a drone, with arrows indicating three speed levels (Level 1, Level 2, Level 3).

4. Camera Operation

The S450 drone is equipped with a 1080P HD camera for capturing high-quality photos and videos. The camera angle can be manually adjusted by 90° before flight.

1080HD LIVE VIDEO CAMERA



PHOTO



VIDEO

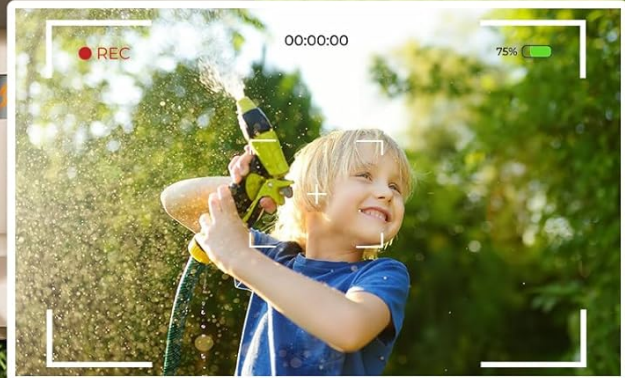


Image: A close-up view of the drone's 1080P HD camera, illustrating its 90-degree manual adjustment capability. The image also shows examples of photos and videos captured by the drone.

- **Real-time FPV:** Connect to the SOTAONE FPV app to view the live camera feed on your smartphone.
- **Photo/Video Capture:** Use the dedicated buttons on the remote controller or the app interface to take photos or start/stop video recording.

5. Advanced APP Controls

Utilize the SOTAONE FPV app for additional intelligent flight features:



Image: Two panels illustrating advanced drone features. The left panel shows multiple drones performing 3D rolling maneuvers over a child. The right panel shows a child making a 'V' gesture, indicating the Gesture Selfie function.

- **Gesture Control:** Perform specific hand gestures to trigger photo or video capture.
- **Trajectory Flight:** Draw a flight path on your smartphone screen, and the drone will automatically follow it.
- **Gravity Sensor:** Control the drone's flight direction by tilting your smartphone.
- **3D Rolling:** Execute impressive 360-degree flips with a single button press via the app.



Image: Two panels demonstrating intelligent flight modes. The left panel shows a drone following a pre-drawn trajectory path on a green field. The right panel shows hands holding a smartphone, controlling the drone's flight direction using the gravity sensor feature.

SAFETY GUIDELINES

- Always operate the drone in open areas, away from people, buildings, and obstacles.
- Do not fly in strong winds, rain, or other adverse weather conditions.
- Maintain a safe distance from the drone during flight.
- Ensure propeller guards are installed to protect both the drone and users from blades.
- Supervise children during drone operation. Recommended age is 14 years and above.
- Do not modify the drone or its components.
- Only use original SOTAONE parts and accessories.
- Avoid flying near airports or restricted airspace.



Image: An illustration showing the SOTAONE S450 drone flying with its propeller guards installed, emphasizing 'Wide Range of Protection'. Below, a child with a small bandage is shown next to a drone without guards, indicating 'Rarely Protective Effect' without them.

MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the drone and controller. Avoid using water or solvents.
- **Propellers:** Regularly inspect propellers for cracks or damage. Replace any damaged propellers immediately.
- **Batteries:** Store batteries in a cool, dry place. Do not overcharge or over-discharge. Remove batteries from the drone and controller if not in use for extended periods.
- **Storage:** When not in use, fold the drone and store it in a safe place to prevent damage.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Drone does not power on	Low or uncharged battery; Battery not properly inserted	Charge the drone battery; Ensure battery is securely inserted
Controller does not power on	Low or dead AAA batteries; Batteries inserted incorrectly	Replace AAA batteries; Check battery polarity
Drone and controller fail to pair	Incorrect pairing procedure; Interference	Follow pairing steps precisely; Move to an area with less interference
Drone drifts during flight	Not calibrated on a flat surface; Wind interference	Recalibrate the drone on a level surface; Fly in calm conditions
No FPV video feed	Not connected to drone's Wi-Fi; App not open or crashed	Connect smartphone to drone's Wi-Fi; Restart the app and drone
Short flight time	Battery not fully charged; Old battery	Ensure battery is fully charged; Consider replacing old batteries

SPECIFICATIONS

Feature	Detail
Brand	SOTAONE
Model Name	S450
Color	Grey White
Video Capture Resolution	1080p
Video Output Resolution	1920x1080 Pixels
Connectivity Technology	Wi-Fi
Control Type	Gesture Control, Remote Control
Skill Level	Beginner
Battery Capacity	1200 Milliamp Hours (per battery)
Battery Cell Composition	Lithium Ion
Batteries Included	Yes (2 Lithium Ion batteries)
Operating Temperature	Up to 40 Degrees Celsius
Supported Image Format	JPEG
Video Capture Format	MP4
Product Dimensions (Unfolded)	7.2"L x 6.9"W x 2.2"H
Item Weight	14.4 ounces
Manufacturer Recommended Age	14 - 17 years

CUSTOMER SUPPORT

For any questions, technical assistance, or support regarding your SOTAONE S450 Drone, please contact us through the following channels:



Image: SOTAONE Customer Support information, including website and email address.

- **Website:** www.sotaone.com
- **Email:** usa@sotaone.com

Please have your model number (S450) ready when contacting support.