

Waillynice S4S

Waillynice S4S 4K Professional Drone User Manual

Model: S4S | Brand: Waillynice

1. INTRODUCTION

The Waillynice S4S is a compact and powerful 4K professional mini drone designed for an enhanced flying experience. Featuring a 6K HD camera with 90° adjustable angle, brushless motors, and omnidirectional obstacle avoidance, it offers stable flight and high-quality imaging. This manual provides essential information for safe operation, setup, and maintenance of your S4S drone.

2. WHAT'S IN THE BOX

Carefully unpack your drone and ensure all components are present:

- 1 x S4S RC Quadcopter
- 1 x Remote Controller
- 1 x 3.7V 1800mAh Lipo Battery
- 4 x Spare Propellers
- 1 x USB Charging Cable
- 1 x Screwdriver
- 2 x User Manuals (this document is one of them)



Image 2.1: Contents of the Wailynice S4S Drone package.

3. PRODUCT FEATURES

- **Advanced Camera System:** Equipped with a wide-angle 6K HD front camera and a bottom HD lens, both featuring EIS electronic anti-shake for clearer photos and videos. The camera angle is 90° adjustable via the remote control.
- **Stable Flight:** Optical flow positioning and a fixed height holding mode ensure stable hovering and precise control.
- **Extended Flight Time:** The 3.7V 1800mAh lithium battery provides approximately 18 minutes of flight on a single charge.
- **Intelligent Flight Modes:** Supports APP phone control, headless mode, gesture photography/recording, and trajectory flight (draw a path on the app).
- **Brushless Motors:** Provides increased power, efficiency, and a longer service life compared to brushed motors.
- **Omnidirectional Obstacle Avoidance:** Automatically detects and avoids obstacles in all directions, enhancing flight safety.
- **User-Friendly Design:** Features 2.4GHz anti-interference technology, a six-axis gyroscope for stable flight, and a lightweight, foldable design for portability.

LS-S4S

Obstacle Avoidance
Brushless power
ESC HD Camera
Brushless

Electric condenser
High definition dual
camera switching

High quality dual camera switching
shooting, supporting 90 ° remote
control angle.



Image 3.1: The S4S drone's design and powerful brushless motors.

Beautiful appearance, strong performance

LS-S4S



Brushless
**HD &
brushless**

Image 3.2: The S4S drone's omnidirectional obstacle avoidance system.

4. SETUP

4.1 Battery Charging

1. Connect the 3.7V 1800mAh Lipo Battery to the provided USB Charging Cable.
2. Plug the USB cable into a 5V USB power adapter (not included).
3. Charging time is approximately 2 hours. Ensure the battery is fully charged before each flight.

4.2 Propeller Installation

If propellers are not pre-installed or need replacement:

1. Identify the 'A' and 'B' marked propellers and their corresponding motor arms.
2. Attach the propellers to the correct motor shafts, ensuring a secure fit. Use the provided screwdriver if necessary.

4.3 Remote Controller Setup

1. Install 3 x AA batteries (not included) into the remote controller, observing polarity.
2. Extend the phone holder on the remote controller and securely place your smartphone.

4.4 App Installation and Connection

1. Download the dedicated drone control app from your smartphone's app store (refer to the included user manual for the specific app name or QR code).
2. Power on the drone and the remote controller.
3. On your smartphone, connect to the drone's 2.4G WIFI network. The network name will typically start with 'LS-S4S' or similar.
4. Open the app to establish a connection with the drone.



Image 4.1: Drone and remote controller with smartphone for app control.

5. OPERATING INSTRUCTIONS

5.1 Basic Flight Controls

Familiarize yourself with the remote controller's joysticks and buttons for basic movements: ascend, descend, forward, backward, turn left, turn right, and side flying.

5.2 One-Key Takeoff and Landing

Press the designated one-key takeoff/landing button on the remote controller or in the app to initiate automatic takeoff or landing. The drone will ascend to a safe height or descend gently.

5.3 Optical Flow Positioning

The optical flow positioning system helps the drone maintain its position and altitude stably, especially in indoor environments or areas with good ground texture. This feature contributes to smoother flight control.

5.4 Omnidirectional Obstacle Avoidance

The drone is equipped with sensors that detect obstacles in its flight path. When an obstacle is detected, the drone will automatically adjust its course to avoid collision, providing an added layer of safety during flight.

5.5 Gesture Control

Utilize hand gestures to trigger photo or video recording. Stand within 1-5 meters of the drone and perform the specified gestures (refer to the app or included manual for specific gestures).

5.6 Trajectory Flight

In the app, you can draw a desired flight path on your screen. The drone will then automatically follow this trajectory, allowing for pre-planned flight routes.

5.7 Camera Operation

- **Switching Cameras:** Use the app to switch between the front 6K HD camera and the bottom HD camera.
- **Adjusting Angle:** The front camera's angle can be adjusted by 90° via the remote control or app to capture different perspectives.
- **Zoom Function:** The camera supports up to 50x digital zoom for capturing distant details.



Image 5.1: Close-up of the S4S drone's adjustable camera.

5.8 Operation and Function Video

Your browser does not support the video tag.

Video 5.1: Demonstrates various operations and functions of the Wailynice S4S drone, including takeoff, landing, obstacle avoidance, and camera features.

6. MAINTENANCE

6.1 Battery Care

- Always use the original charging cable.
- Do not overcharge or over-discharge the battery.
- Store batteries in a cool, dry place away from direct sunlight and extreme temperatures.
- If the drone will not be used for an extended period, charge the battery to about 50% before storage.

6.2 Propeller Inspection and Replacement

- Before each flight, inspect all propellers for cracks, bends, or any damage.
- Replace damaged propellers immediately using the provided spare parts and screwdriver. Ensure correct 'A' and 'B' propeller placement.

6.3 Cleaning

- Use a soft, dry cloth to clean the drone's body and camera lens.
- Avoid using liquid cleaners or solvents that could damage electronic components.
- Keep motors free of dust and debris.

7. TROUBLESHOOTING

7.1 Drone Not Powering On

- Ensure the battery is fully charged and correctly inserted.
- Check the power button for proper engagement.

7.2 Unstable Flight / Drifting

- Perform a gyroscope calibration (refer to the app or included manual for instructions).
- Check for damaged or incorrectly installed propellers.
- Ensure flight is in an open area away from strong winds.

7.3 No Camera Feed / Poor Image Quality

- Ensure your smartphone is connected to the drone's Wi-Fi network.
- Restart the drone, remote, and app.
- Check for obstructions on the camera lens and clean if necessary.
- Ensure sufficient light for optimal image quality.

7.4 Remote Controller Not Connecting

- Ensure fresh AA batteries are installed in the remote.
- Power cycle both the drone and the remote controller.
- Follow the pairing procedure outlined in the included user manual.

8. SPECIFICATIONS

Feature	Specification
Model Name	S4S
Motor Type	1503 Brushless Motor (4000/KV)
Battery Capacity	3.7V 1800mAh Lipo Battery
Flight Time	Approximately 18 minutes
Charging Time	Approximately 2 hours (via 5V USB)
Control Distance	Up to 100 meters (free interference, no occlusion)
Camera Resolution	Front: 6K HD; Video Output: 4K (3840x2160)

Image Transmission Distance	Approximately 30-50 meters (free interference, no occlusion)
Focal Length	50X (Zoom)
Frame Rate	25 fps
Product Size (Folded)	14 x 13 x 8 CM
Product Size (Open)	26 x 25 x 8 CM
Take-off Weight	168g
Connectivity Technology	2.4G WIFI FPV, Wireless
Special Features	Optical Flow Positioning, Obstacle Avoidance, Brushless Motor, Gesture Photography, EIS Anti-shake

9. SAFETY GUIDELINES

To ensure safe operation and prevent damage or injury, please adhere to the following guidelines:

- **Pre-Flight Check:** Always inspect the drone, propellers, and battery before each flight.
- **Flight Environment:** Fly in open, unobstructed areas, away from people, animals, buildings, and power lines. Avoid flying in strong winds, rain, or other adverse weather conditions.
- **Maintain Visual Line of Sight:** Always keep the drone within your visual line of sight.
- **Respect Privacy:** Be mindful of privacy laws and do not record individuals or private property without consent.
- **Battery Safety:** Use only approved chargers and batteries. Do not leave charging batteries unattended.
- **Local Regulations:** Familiarize yourself with and comply with all local drone regulations and restrictions.
- **Age Recommendation:** This product is recommended for adult users.

10. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please refer to the contact details provided with your purchase or visit the official Waillynice website. Keep your proof of purchase for warranty claims.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

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

Submit question