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Wipkviey S1S

Wipkviey S1S Brushless Drone User Manual

Model: S1S | Model Number: 01

1. INTRODUCTION

Thank you for purchasing the Wipkviey S1S Brushless Drone. This manual provides essential information for the safe operation, setup, and maintenance of your drone. Please read this manual thoroughly before operating the drone to ensure proper functionality and to avoid damage.

The Wipkviey S1S is a compact, foldable drone featuring five-sided obstacle avoidance, a 6K HD dual camera, and advanced flight modes for an enhanced aerial experience.

2. WHAT'S IN THE BOX

Upon unboxing, verify that all components are present and in good condition. The standard package includes:

- Wipkviey S1S Brushless Drone
- Remote Controller
- Flight Battery (1800mAh)
- Spare Propellers (set of 4)
- USB Charging Cable
- Storage Case
- User Manual (this document)



Figure 2.1: Contents of the Wipkviety S1S Brushless Drone package, including the drone, remote, battery, propellers, and case.

3. SETUP GUIDE

3.1. Charging the Battery


Before first use, fully charge the drone's flight battery. Connect the USB charging cable to the battery and a compatible USB power source (e.g., computer USB port, USB wall adapter). The charging indicator will show the charging status. A full charge typically takes approximately 60-90 minutes, providing up to 30 minutes of flight time.

LS-S1S

*Obstacle Avoidance
Brushless power
6K 60FPS*

Intelligent obstacle avoidance "Wisdom and exploration" for you

With omnidirectional intelligent detection and obstacle avoidance, it can automatically detect and avoid surrounding obstacles, providing more security for flight.




LS-S1S

Brushless

6K level image

Brushless version


"360 ° obstacle avoidance" opens the way for you




The upgraded brushless system, optical flow hovering, and 6K electric adjustment dual shooting make gorgeous movies accessible, making the scenery extraordinary.

Six reasons


Select LS-S1S UAV




360 ° intelligent obstacle avoidance
It can effectively prevent collision damage and is easier to use.




Upgrade brushless power
The output is more powerful, supporting 1 flight aerial photography.




6K electrically adjustable dual camera
Remote control angle, free switching angle of view.



Convenient folding design
Fold out space, master with one hand, and bring freedom.



Optical flow positioning hover
Stable hovering indoors and outdoors, novices can get started in seconds.



Electronic fence protection
If the distance is exceeded, the approach signal will be recovered.

Figure 3.1: The 1800mAh lithium battery provides extended flight duration. Ensure it is fully charged before each flight.

3.2. Installing Propellers

Attach the propellers to the corresponding motor shafts. Ensure that propellers are installed correctly according to their rotation direction (indicated by markings on the propeller and drone arms). Incorrect installation can affect flight stability.

3.3. Unfolding the Drone

The S1S drone features a foldable design for portability. Gently unfold the drone arms until they lock into place. Ensure all arms are fully extended and secure before flight.



Figure 3.2: The S1S drone in its folded configuration, highlighting its compact and portable design.

4. OPERATING INSTRUCTIONS

4.1. Remote Controller Overview

Familiarize yourself with the remote controller's buttons and joysticks. The left joystick typically controls altitude and yaw, while the right joystick controls forward/backward and left/right movement. Refer to the remote controller diagram in the quick start guide for detailed button functions.



Figure 4.1: The drone, remote controller, and case, illustrating the complete setup for operation.

4.2. Connecting to the App (Wi-Fi FPV)

Download the official Wipkvey drone application from your device's app store. Power on the drone, then connect your smartphone to the drone's Wi-Fi network (usually named "Wipkvey_S1S_XXXX"). Open the app to access live FPV feed, advanced flight settings, and recording functions.

4.3. Calibration and Takeoff

1. Place the drone on a flat, level surface.
2. Perform gyroscope calibration as instructed in the app or quick start guide.
3. Press the One-Key Takeoff button on the remote or in the app, or manually initiate takeoff by pushing both joysticks to the bottom-outer corners.

4.4. Flight Features

- **Optical Flow Hovering:** The drone utilizes optical flow technology for stable hovering, making it easier for beginners to control both indoors and outdoors.

Optical flow hovering Novice "second to start"

Obstacle Avoidance
Brushless power
ESC HD Camera
Brushless

No matter where you are, you can easily and stably fly, and you can keep balance and stability indoors or outdoors. Zero base easy to fly.



Figure 4.2: Optical flow hovering provides stable flight, ideal for novice pilots.

- **Five-Sided Obstacle Avoidance:** The drone is equipped with sensors to detect obstacles from five directions, automatically adjusting its flight path to prevent collisions.

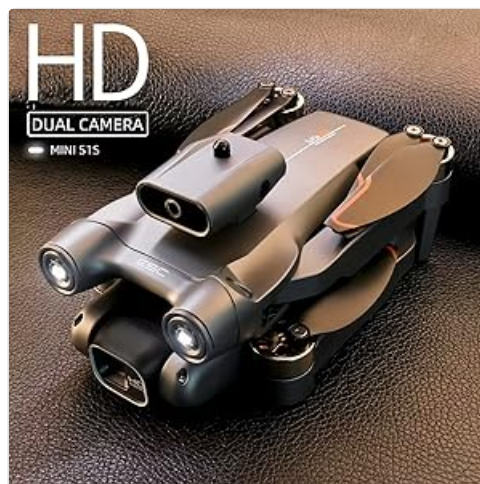


Figure 4.3: Intelligent obstacle avoidance system for safer flight.

- **6K HD Dual Camera:** Capture high-resolution photos and videos with the drone's dual camera system. The main

camera supports 6K resolution, and the angle can be adjusted remotely up to 90 degrees.



Figure 4.4: The 6K HD camera captures high-definition images and videos.



Figure 4.5: Remote adjustment of the camera angle up to 90 degrees.

- **Gesture Selfie:** Use specific hand gestures to trigger photo or video recording, enhancing the selfie experience.
- **360-degree Flip:** Execute impressive aerial stunts with the one-key 360-degree flip function.
- **Headless Mode:** Simplifies flight control by eliminating the need to orient the drone's front direction, making it easier for beginners.
- **Brushless Motors:** Equipped with powerful brushless motors for strong wind resistance (Level 7) and stable flight performance.



Figure 4.6: High-performance brushless motors provide strong wind resistance and stable flight.

5. MAINTENANCE

- **Cleaning:** Regularly wipe the drone and remote controller with a soft, dry cloth. Avoid using harsh chemicals or solvents.
- **Propeller Inspection:** Before each flight, inspect propellers for any cracks, bends, or damage. Replace damaged propellers immediately using the provided spares.
- **Battery Care:** Store batteries in a cool, dry place. Do not overcharge or over-discharge. If storing for extended periods, charge the battery to approximately 50% capacity.
- **Storage:** When not in use, fold the drone and store it in its protective case to prevent damage.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Drone does not power on	Battery not charged or incorrectly inserted.	Ensure battery is fully charged and properly seated in the drone.
Drone unstable during flight	Improper calibration or damaged propellers.	Perform gyroscope calibration. Check and replace any damaged propellers.
No FPV feed in app	Wi-Fi not connected or app issue.	Ensure your phone is connected to the drone's Wi-Fi network. Restart the app and drone.
Obstacle avoidance not working	Sensors are dirty or obstructed.	Clean the obstacle avoidance sensors on the drone. Ensure adequate lighting for sensor operation.

7. SPECIFICATIONS

Feature	Detail
Model Name	S1S
Brand	Wipkviey

Feature	Detail
Dimensions (Unfolded)	15 x 6 x 15 cm
Weight	440 g
Video Capture Resolution	6K (Main Camera)
Camera Type	HD Dual Camera, 90-degree adjustable
Connectivity	Wi-Fi, USB
Control Type	App Control, Remote Control
Battery Capacity	1800mAh (approx. 30 minutes flight time)
Maximum Range	0.15 kilometers (150 meters)
Special Features	360-degree Flip, Compact, Foldable, Five-Sided Obstacle Avoidance, Optical Flow Hovering, Brushless Motors (Level 7 wind resistance), Gesture Selfie, One Key Headless Mode
Skill Level	Advanced, Professional

8. WARRANTY AND SUPPORT

8.1. Warranty Information

Wipkviey products are covered by a limited warranty against manufacturing defects. Please retain your proof of purchase for warranty claims. For specific warranty terms and conditions, refer to the warranty card included with your product or visit the official Wipkviey website.

8.2. Customer Support

For technical assistance, troubleshooting, or spare parts, please contact Wipkviey customer support. Contact details can typically be found on the product packaging or the official brand website. When contacting support, please have your product model (S1S) and serial number (if applicable) ready.