

PREVCHA S2S

PREVCHA S2S Mini Drone User Manual

Model: S2S

1. INTRODUCTION

This manual provides essential instructions for the safe operation, setup, and maintenance of your PREVCHA S2S Mini Drone. Please read this manual thoroughly before operating the drone to ensure proper function and to prevent damage or injury.

The PREVCHA S2S is a foldable quadcopter equipped with a 4K/8K HD camera, advanced obstacle avoidance, and a brushless motor for stable and efficient flight. It features optical flow positioning, altitude hold, and a flight time of approximately 25 minutes.

2. SAFETY GUIDELINES

Operating a drone requires responsibility. Adhere to the following safety guidelines:

- **Pre-Flight Check:** Always inspect the drone, remote control, and batteries for any damage before each flight.
- **Flight Environment:** Fly in open areas, away from people, animals, buildings, and obstacles. Avoid flying over crowds.
- **Weather Conditions:** Do not fly in strong winds, rain, snow, or fog. Optimal flight conditions are calm and clear.
- **Line of Sight:** Always maintain visual line of sight with your drone during flight.
- **Battery Safety:** Use only approved chargers and batteries. Do not overcharge or puncture batteries. Discontinue use if batteries are damaged or swollen.
- **Respect Privacy:** Be mindful of privacy laws when using the camera.
- **Local Regulations:** Familiarize yourself with and adhere to all local aviation regulations and restrictions. The S2S drone weighs 174g, which may exempt it from certain registration requirements in some regions (check local laws).

- **Age Recommendation:** This product is recommended for adults.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- PREVCHA S2S Drone
- Remote Control
- Intelligent Flight Batteries (2 total)
- Spare Propellers
- USB Charging Cable
- User Manual (this document)
- Storage Bag



Image: Contents of the PREVCHA S2S Mini Drone package. It displays the drone, remote control, two batteries, spare propellers, a USB charging cable, the user manual, and a grey storage bag.

4. SETUP

4.1 Drone Assembly

1. **Unfold the Drone Arms:** Gently unfold the four rotor arms until they lock into position. Ensure all arms are fully extended and secure.

4.2 Battery Installation and Charging

1. **Drone Battery:** Insert the 3.7V 2000mAh intelligent flight battery into the battery compartment on the drone. Ensure it clicks securely into place.
2. **Remote Control Batteries:** Open the battery cover on the back of the remote control and insert 3 AA batteries (not included), observing correct polarity. Close the cover.
3. **Charging:** Connect the drone battery to the USB charging cable, then plug the cable into a 5V USB power source. The charging time is approximately 1 hour. The indicator light will show charging status (refer to the manual for specific light patterns).

5. OPERATING INSTRUCTIONS

5.1 Remote Control and App Connection

1. **Power On:** Turn on the drone first, then the remote control.
2. **Pairing:** The drone and remote control should automatically pair. If not, follow the pairing sequence in the quick start guide (usually pushing the left joystick up then down).
3. **App Installation:** Download the dedicated drone control app to your mobile phone (refer to the manual for the specific app name and QR code).
4. **Wi-Fi Connection:** Connect your mobile phone to the drone's Wi-Fi network (usually named 'S2S-XXXXXX'). This enables FPV (First Person View) and app control. The image transmission distance is approximately 50 meters.

5.2 Flight Preparation

1. **Calibration:** Perform gyroscope calibration before the first flight and after any hard landing. Place the drone on a flat surface and follow the calibration procedure outlined in the quick start guide (typically a specific joystick combination).
2. **GPS Signal (if applicable):** For outdoor flights, wait for a sufficient GPS signal lock before taking off to ensure stable positioning.

5.3 Basic Flight Operations

- **Take-off/Landing:** Use the one-button take-off/landing function on the remote control or app.
- **Altitude Hold Mode:** The drone maintains a stable altitude automatically, making it easier to control.
- **Optical Flow Positioning:** Provides stable hovering, especially useful for indoor flight or when GPS signal is weak.
- **Headless Mode:** In this mode, the drone's orientation is relative to the pilot, simplifying control regardless of the drone's front direction.
- **Obstacle Avoidance:** The drone features 360-degree, four-way laser obstacle avoidance, allowing it to detect and stop before colliding with obstacles.

360° four-way laser obstacle avoidance

Precise detection and perception of comprehensive guardianship

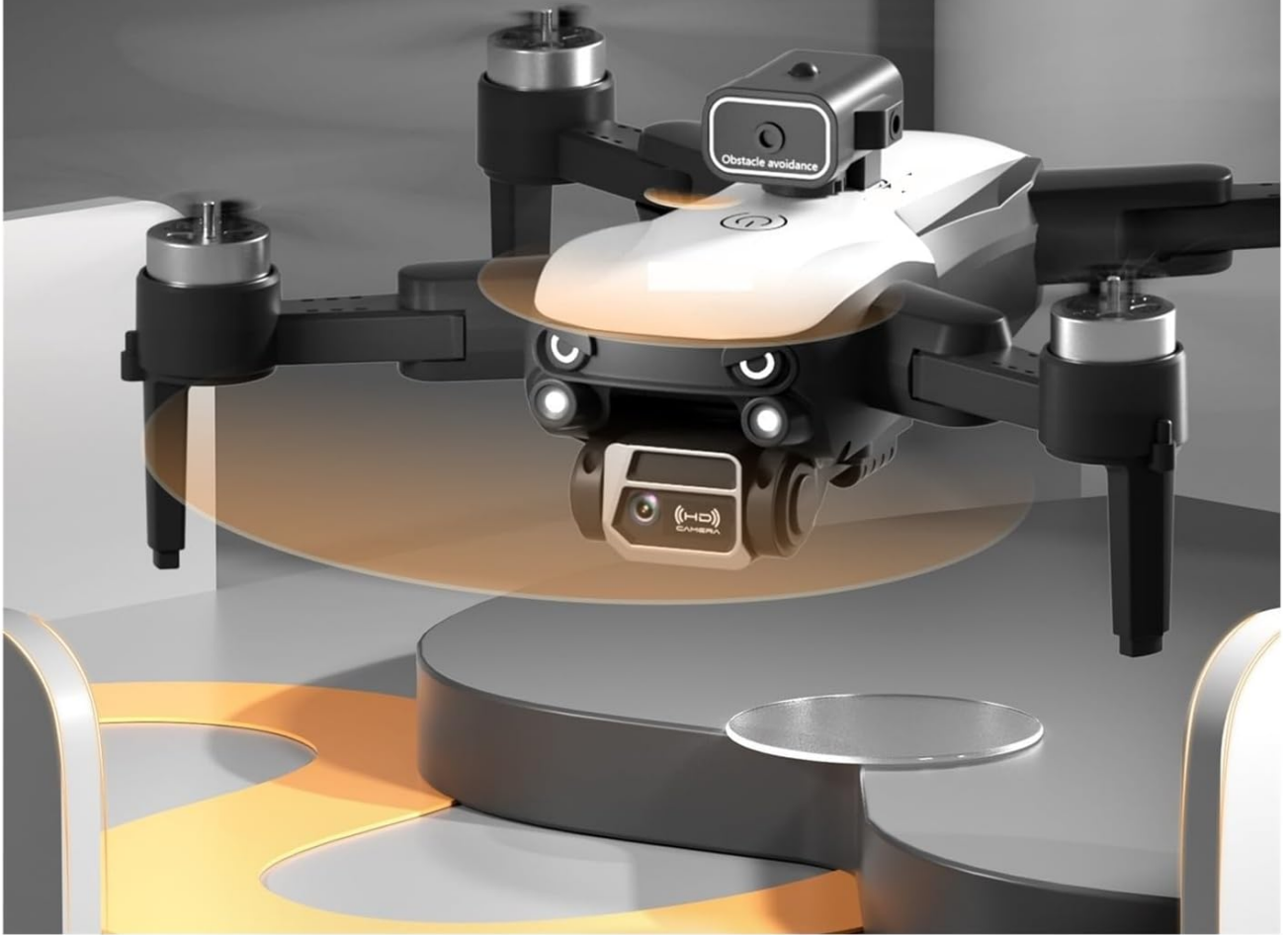


Image: The PREVCHA S2S drone showcasing its 360-degree four-way laser obstacle avoidance system, with orange detection zones highlighted around the drone.

Streaming precision positioning

Quickly recognize high -frequency chips,
Realize indoor outdoor stability hover



Image: The PREVCHA S2S drone in flight, illustrating its streaming precision positioning capability for stable indoor and outdoor hovering.

5.4 Advanced Flight Functions

- **Gesture Photography/Video:** Perform specific hand gestures within 1-5 meters of the drone to trigger photo or video recording.
- **Custom Route Flight:** Draw a desired flight path on the app interface, and the drone will automatically follow it.
- **One-Button Return:** Press the return button, and the drone will automatically fly back to its take-off point.

5.5 Camera Operation

The S2S drone is equipped with a dual camera system:

- **Front Camera:** 4K/8K HD wide-angle lens with electronic anti-shake (EIS) for clearer images. The camera angle can be adjusted by the transmitter up to 90 degrees.
- **Bottom Camera:** High-definition optical flow lens.
- **Photo Resolution:** Up to 33 MP effective still image resolution.

- **Video Resolution:** Supports 4K and 8K video capture at 25 frames per second (fps).
- **Storage:** Insert a Micro SD, Micro SDHC, or SDXC card (not included) into the drone's card slot to save photos and videos.



Image: The PREVCHA S2S drone in stable flight outdoors, demonstrating its capability for aerial photography and videography.

6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your drone:

- **Cleaning:** Use a soft, dry cloth to clean the drone body and camera lenses. Avoid using liquids or solvents.
- **Propeller Inspection:** Regularly check propellers for cracks, bends, or damage. Replace any damaged propellers immediately using the provided spare parts.
- **Battery Care:** Store batteries in a cool, dry place. Do not store fully charged or completely depleted batteries for extended periods. Charge them to about 50-60% for long-term storage.
- **Motor Inspection:** Ensure the brushless motors are free from debris and spin smoothly.

- **Storage:** When not in use, store the drone in its protective bag in a dry environment.

7. TROUBLESHOOTING

If you encounter issues, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Drone does not power on	Low or uncharged battery; improperly installed battery	Charge the drone battery fully; ensure battery is correctly inserted.
Remote control does not respond	Low or dead AA batteries; not paired with drone	Replace AA batteries; re-pair remote control with drone.
Unstable flight/Drifting	Drone not calibrated; strong winds; damaged propellers	Perform gyroscope calibration on a flat surface; fly in calm conditions; check and replace damaged propellers.
No FPV image on phone	Phone not connected to drone's Wi-Fi; app not open	Ensure phone is connected to the drone's Wi-Fi network; open the control app.
Short flight time	Battery not fully charged; old battery	Fully charge the battery; consider replacing old batteries if performance degrades significantly.
Obstacle avoidance not working	Sensors are dirty or obstructed; system error	Clean obstacle avoidance sensors; restart drone and remote.

8. SPECIFICATIONS

Feature	Detail
Brand	PREVCHA
Model Name	S2S
Special Function	Foldable Design, Obstacle Avoidance
Age Range	Adult
Video Capture Resolution	4K, 8K
Still Image Resolution	33 MP
Connectivity Technology	Wi-Fi
Components Included	Drone, Camera, Remote Control, Batteries, Propellers, USB Cable, Manual, Bag
Product Weight	174 Grams
Control Distance	100 Meters
Flight Time	Approx. 25 Minutes
Charging Time	Approx. 1 Hour

Feature	Detail
Drone Battery Capacity	3.7V 2000 mAh Lithium
Remote Control Battery	AA * 3 (not included)
Image Transmission Distance	Approx. 50 Meters
Drone Size (Folded)	12 x 8 x 4 CM
Drone Size (Unfolded)	17 x 13 x 4 CM
Sensor Technology	Optical Flow
Supported Storage	Micro SD, Micro SDHC, or SDXC
Video Format	MP4
Image Format	JPEG

9. WARRANTY AND SUPPORT

For warranty information and customer support, please refer to the documentation provided at the time of purchase or contact the seller directly. Keep your proof of purchase for any warranty claims.