

suangrc K600GPS-A

suangrc K600GPS-A GPS Drone User Manual

MODEL: K600GPS-A

1. Introduction

Welcome to the user manual for your suangrc K600GPS-A GPS Drone. This manual provides essential information for safe operation, setup, and maintenance of your drone. Please read it thoroughly before your first flight to ensure optimal performance and safety.

The K600GPS-A is a lightweight, foldable quadcopter equipped with a 1080P camera, 4.5-inch LCD screen remote control, and advanced GPS features such as Auto Return Home, Follow Me, Point of Interest, and Tap Fly. Weighing under 249g, it offers an accessible and enjoyable flight experience.

2. Safety Guidelines

Adhering to these safety guidelines is crucial for preventing accidents and ensuring a pleasant flight experience.

- **Flight Environment:** Fly in open, unobstructed areas, away from people, animals, buildings, and power lines. Avoid flying over private property without permission.
- **Weather Conditions:** Do not fly in strong winds, rain, snow, or fog. Optimal conditions are calm and clear.
- **Battery Safety:** Use only the provided charger and battery. Do not overcharge or puncture batteries. Discontinue use if batteries are damaged or swollen.
- **Line of Sight:** Always maintain visual line of sight with your drone during flight.
- **Respect Privacy:** Be mindful of others' privacy when operating the drone's camera.
- **Age Recommendation:** This drone is intended for adults and experienced users.
- **FAA Regulations:** This drone weighs under 249g, which typically exempts it from FAA registration requirements in the United States. However, always check local regulations before flying.

3. Package Contents

Verify that all items are present in your package:

- Drone x 1
- Remote Control x 1
- Battery x 1
- Propeller x 4 (spare)
- Screwdriver x 1
- USB Cable x 1
- Carrying Case x 1
- SD Card (8GB) x 1



Image: Contents of the K600GPS-A drone package, neatly arranged with the drone, remote control, battery, spare propellers, screwdriver, USB cable, carrying case, and an 8GB SD card.

4. Product Overview

Familiarize yourself with the drone and remote control components.



Image: The suangrc K600GPS-A drone in its unfolded state, positioned above its remote control. The drone features a front-facing camera, and the remote control has a large 4.5-inch LCD screen displaying a live feed.

Drone Components:

- **Propellers:** Four propellers for lift and movement.
- **Brushless Motors:** Provide efficient and stable flight.
- **Camera:** Front-mounted 1080P HD camera with 90° electric adjustment.
- **Battery Compartment:** Located at the rear for the modular flight battery.
- **Optical Flow Sensor:** Bottom-mounted for stable hovering.

Remote Control Components:

- **4.5-inch LCD Screen:** Displays real-time FPV feed and flight data.
- **Control Sticks:** For drone movement and altitude.
- **Function Buttons:** For one-key takeoff/landing, RTH, photo/video capture, speed adjustment, etc.
- **Antennas:** For stable signal transmission.

4.5 INCH LCD Screen

5GHz Transmission



Image: A close-up of the drone's remote control, highlighting its 4.5-inch LCD screen which provides a clear, real-time first-person view (FPV) from the drone's camera, along with various control buttons and joysticks.

5. Setup

5.1. Battery Charging

1. **Drone Battery:** Connect the drone's modular battery to the provided USB charging cable. Plug the USB cable into a 5V/2A USB adapter (not included). The charging indicator will show charging status and turn off when fully charged. Charging time is approximately 120-150 minutes for 22 minutes of flight.
2. **Remote Control Battery:** The remote control uses internal rechargeable batteries. Charge it using the provided USB cable.

8GB SD Card & Card Reader Included



Image: A composite image showing the drone's brushless motor, the modular battery inserted into the drone, and the battery being charged via a USB cable plugged into a wall adapter. This illustrates the power components and charging process.

5.2. Propeller Installation

The drone's propellers are typically pre-installed. If replacement is necessary, use the included screwdriver to attach the spare propellers, ensuring they are correctly oriented (A and B types).

5.3. SD Card Insertion

Locate the SD card slot on the drone. Insert the included 8GB SD card (supports up to 32GB) into the slot until it clicks. This card is used for storing photos and videos directly from the drone's camera.

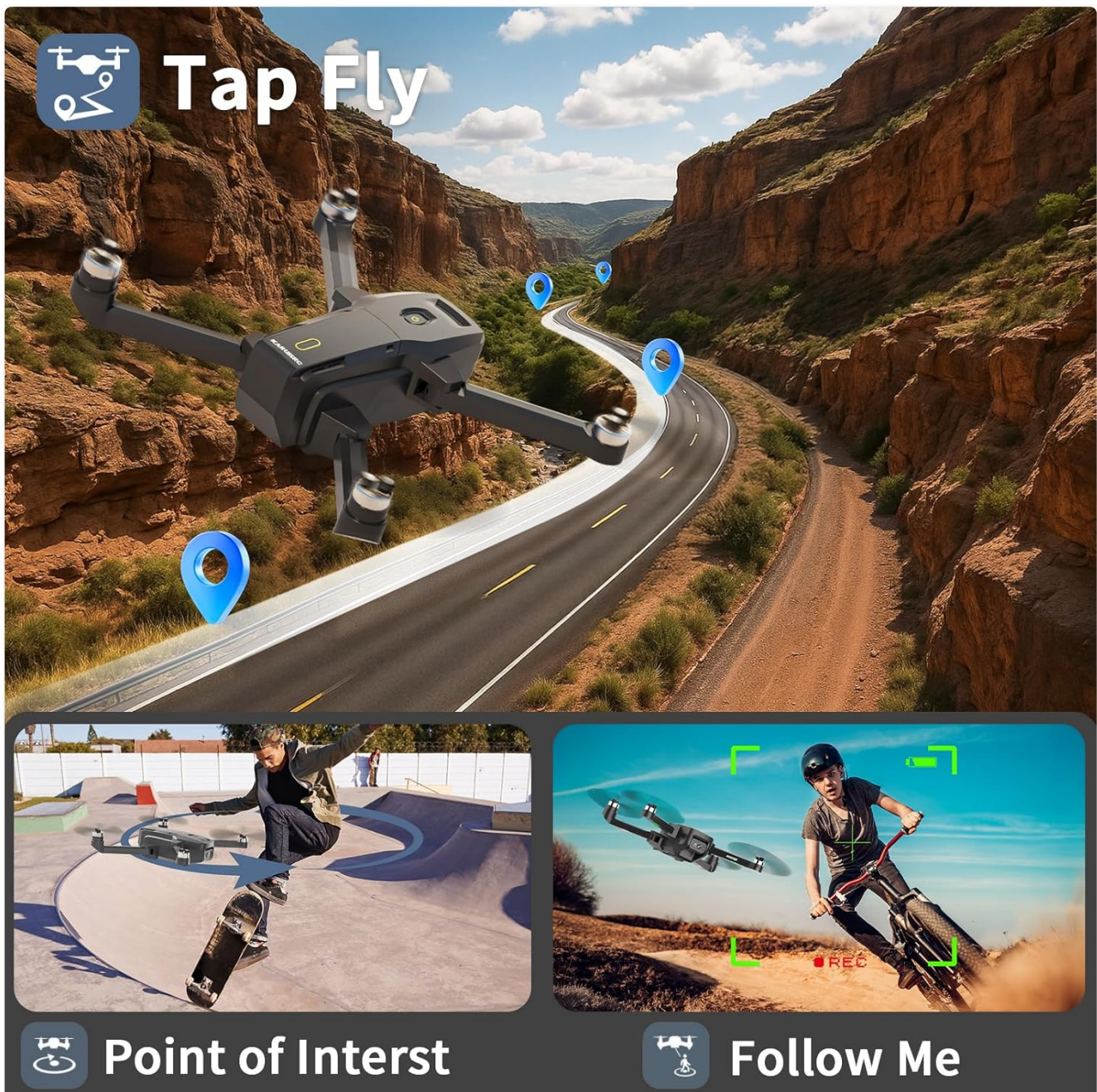


Image: A three-part image showing the drone's SD card slot, a hand inserting an SD card into a USB card reader, and the card reader connected to a laptop, demonstrating how to install the SD card and access its contents.

5.4. Pairing Drone and Remote Control

1. Place the drone on a flat, level surface.
2. Power on the drone. The indicator lights will flash.
3. Power on the remote control.
4. Push the left joystick up then down. The drone lights will become solid, indicating successful pairing.
5. Wait for GPS signal acquisition. The drone lights will flash slowly once GPS is locked.

6. Operating Instructions

6.1. Pre-Flight Checklist

- Ensure drone and remote control batteries are fully charged.
- Check propellers for any damage and ensure they are securely attached.

- Confirm the SD card is inserted correctly.
- Choose an open, safe flying area, free from obstacles and people.
- Wait for GPS signal lock before takeoff.

6.2. Takeoff and Landing

- **One-Key Takeoff:** After pairing and GPS lock, press the one-key takeoff button on the remote control. The drone will automatically ascend and hover at a safe altitude.
- **Manual Takeoff:** Push both control sticks down and outwards to start the motors, then gently push the left stick up to ascend.
- **One-Key Landing:** Press the one-key landing button. The drone will automatically descend and land.
- **Manual Landing:** Gently pull the left control stick down to descend.

6.3. Basic Flight Controls

- **Left Stick (Throttle/Yaw):** Up/Down for altitude, Left/Right for rotation (yaw).
- **Right Stick (Pitch/Roll):** Up/Down for forward/backward movement (pitch), Left/Right for left/right movement (roll).

6.4. GPS Smart Flight Functions

The K600GPS-A drone offers several intelligent flight modes for enhanced control and creative possibilities.

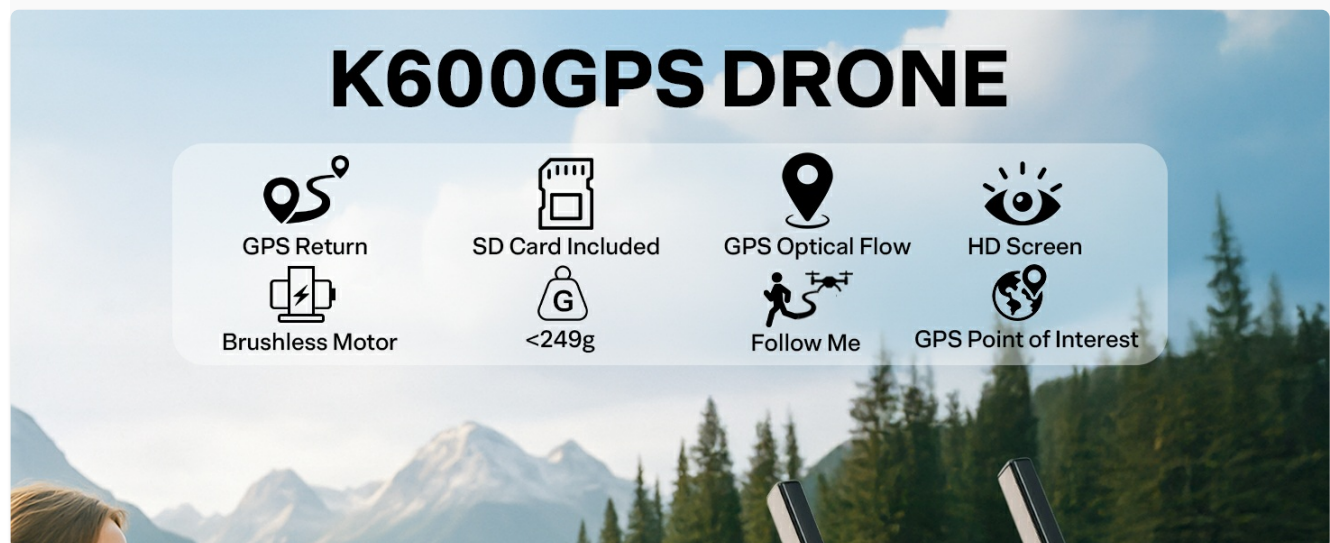


Image: A series of four illustrations depicting the GPS Smart Return features: One Key Return to Home (RTH), RTH due to signal loss, RTH due to low battery, and Failsafe RTH, all showing the drone returning to its launch point.

- **Auto Return Home (RTH):**
 - **One-Key RTH:** Press the RTH button on the remote control, and the drone will automatically return to its takeoff point.
 - **Signal Loss RTH:** If the drone loses connection with the remote control, it will automatically initiate RTH.
 - **Low Battery RTH:** When the drone's battery is critically low, it will automatically return to its takeoff point.
- **Follow Me Mode:**

In this mode, the drone will follow the remote control (and thus the pilot) at a set distance and altitude, capturing footage as you move.



Image: A drone flying behind a person skateboarding on a paved path, demonstrating the 'Follow Me' mode where the drone autonomously tracks the subject.

- **Point of Interest (POI):**

The drone will circle a designated point, maintaining a consistent radius and altitude, ideal for capturing orbital video shots.



Image: A drone flying in a circular path around a person running on a mountain trail, illustrating the 'Point of Interest' flight mode for dynamic aerial videography.

- **Tap Fly (Waypoint Flight):**

Set a custom flight path by tapping points on the map within the connected smartphone app. The drone will then fly along this predetermined route.



Image: A drone flying above a city skyline with red pin markers indicating a pre-set flight path, demonstrating the 'Tap Fly' or waypoint navigation feature.

6.5. Headless Mode

In Headless Mode, the drone's orientation is irrelevant. It will move relative to the pilot's position, making it easier for beginners to control.

6.6. Speed Adjustment

The drone offers multiple speed settings. Use lower speeds for beginners or indoor flight, and higher speeds for outdoor flight in open areas.

7. Camera Operation

The K600GPS-A is equipped with a 1080P HD camera for capturing aerial photos and videos.

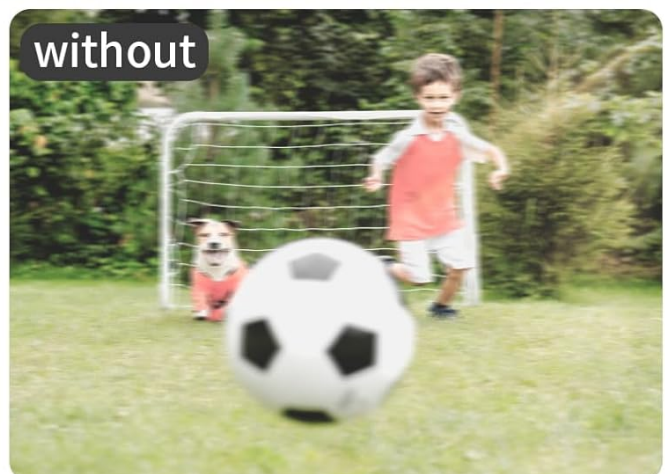


Image: A detailed view of the drone's 1080P HD camera, highlighting its 90-degree electric adjustable lens. Below, two comparison images show the clarity of a 1080P capture versus a blurry, unfocused image without proper camera function.

- **Video Resolution:** 1080P (1920x1080) for video recording.
- **Photo Resolution:** 2 MP effective still resolution.
- **Adjustable Camera:** The camera lens can be adjusted electrically by 90° via the remote control to capture different angles.
- **Recording:** Press the dedicated video button on the remote control to start/stop video recording.
- **Photography:** Press the dedicated photo button on the remote control to take a still image.
- **Storage:** All photos and videos are saved to the inserted SD card.
- **Live View:** The 4.5-inch LCD screen on the remote control provides a real-time FPV feed. For higher resolution viewing or additional features, connect your smartphone to the drone's Wi-Fi and use the dedicated app.

8. Maintenance

- **Cleaning:** Use a soft, dry cloth to clean the drone and remote control. Avoid using solvents or harsh chemicals.
- **Propeller Inspection:** Regularly check propellers for cracks, bends, or damage. Replace any damaged propellers immediately using the provided spares.
- **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.
- **Storage:** When not in use, store the drone and its accessories in the provided carrying case to protect them from dust and physical damage.



Image: The foldable drone and its compact carrying bag placed on a rocky outdoor terrain, emphasizing its portability and ease of storage for travel.

9. Troubleshooting

- **Drone not powering on:** Ensure the battery is fully charged and correctly inserted. Check the power button.
- **Remote control not connecting:** Ensure both drone and remote are powered on and follow the pairing steps in Section 5.4.
- **Unstable flight:** Calibrate the drone before flight. Ensure propellers are not damaged and are installed correctly. Fly in calm weather conditions.
- **No GPS signal:** Fly in an open outdoor area with a clear view of the sky. Avoid areas with tall buildings or

heavy interference.

- **Camera not recording/taking photos:** Ensure the SD card is inserted correctly and has sufficient free space. Check if the card is formatted.
- **Poor FPV feed:** Ensure you are within the drone's operating range. Avoid areas with strong Wi-Fi interference.

10. Specifications

| Feature | Specification |
|----------------------------|--|
| Brand | suangrc |
| Model Name | K600 |
| Color | Black |
| Item Weight | 205 Grams (7.2 ounces) |
| Product Dimensions | 8.8"L x 7.2"W x 2.1"H |
| Video Capture Resolution | 1080p |
| Effective Still Resolution | 2 MP |
| Connectivity Technology | Wi-Fi |
| Battery Capacity | 2200 Milliamp Hours |
| Flight Time | Up to 22 minutes |
| Special Features | Adjustable Camera, Auto-Landing, Burst Mode, Foldable, Integrated GPS, Follow Me, Point of Interest, Tap Fly |
| Control Type | App Control, Remote Control |
| Material | Plastic |
| Optical Sensor Technology | CMOS |
| SD Card Support | Up to 32GB (8GB included) |

11. Warranty and Support

Your suangrc K600GPS-A drone comes with a standard manufacturer's warranty. For specific warranty details, please refer to the documentation included with your purchase or contact customer support. For any technical support, inquiries about drone accessories, or assistance with flight issues, please reach out to our dedicated Support Team. Tutorial videos are also available to help you master flight quickly.

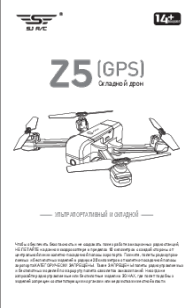


- **Email Support:** suangrc@gmail.com

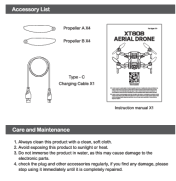




Image: A customer support representative wearing a headset, ready to assist with inquiries, symbolizing the available support for the product.

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Related Documents - K600GPS-A

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|---|--|
|  | <p>SJ A/C Z5 GPS Folding Drone User Manual</p> <p>Comprehensive user manual for the SJ A/C Z5 GPS folding drone, detailing setup, flight operations, safety guidelines, features, technical specifications, and troubleshooting.</p> |
|  | <p>Denver DCW-380 Drone User Manual and Safety Guide</p> <p>Comprehensive user manual for the Denver DCW-380 drone, covering setup, calibration, flight controls, app connection, safety precautions, and troubleshooting. Learn to fly your drone safely and effectively.</p> |
|  | <p>Vysio SKYPRO Drone User Manual: Setup, Operation, and Features</p> <p>Comprehensive user manual for the Vysio SKYPRO drone (Model A/E88). This guide covers setup, battery installation and charging, remote control functions, app usage, flight operations, safety precautions, troubleshooting, and disposal instructions.</p> |

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|--|---|
|  <p>The screenshot shows the 'Accessory List' and 'Care and Maintenance' sections of the XT808 Aerial Drone manual. The accessory list includes Propeller 4.0x, Propeller 5.0x, Type 12, Charging Cable B1, and Replacement Battery B1. The care and maintenance section contains four numbered instructions: 1. Always wear the product with caution and safety. 2. Avoid exposing the product to sunlight or heat. 3. Do not attempt to disassemble or repair the product. 4. Check the plug and other accessories regularly. From time to time, please check the plug and other accessories regularly. From time to time, please check the plug and other accessories regularly.</p> | <p>XT808 Aerial Drone - User Manual and Care Guide</p> <p>Comprehensive guide for the XT808 Aerial Drone, covering accessory lists, care and maintenance, troubleshooting, technical specifications, and FCC compliance.</p> |
|  <p>The screenshot shows the 'Le Vent à la Française' return form and policy. It includes a header with the company name and logo, a section for 'Return Information' with fields for name, address, phone, and email, and a section for 'Return Policy' with a 30-day return policy.</p> | <p>Le Vent à la Française - Return Form and Policy</p> <p>Download and fill out the return form for Le Vent à la Française bracelets. Learn about our 30-day return policy, conditions, and how to send back your item.</p> |
|  <p>The screenshot shows the cover of the Vysio SKYPRO drone user manual and operating guide. It features the Vysio logo, the product name 'SKYPRO', and a photograph of the drone. The text 'User Manual and Operating Guide' is also visible.</p> | <p>Vysio SKYPRO Drone User Manual and Operating Guide</p> <p>Detailed user manual for the Vysio SKYPRO drone (Model A/B, E88). Covers setup, battery handling, remote control functions, app integration, flight operations, fine-tuning, troubleshooting, and safety guidelines.</p> |