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Potensic P5G

Potensic P5G Drone User Manual

Model: P5G | Brand: Potensic

Introduction

The Potensic P5G drone is designed for both beginners and experienced users, featuring a 4K camera, GPS positioning, and intelligent flight modes. This manual provides essential information for safe operation, setup, and maintenance of your drone.



Image: The Potensic P5G drone, its remote controller with a smartphone holder, two rechargeable batteries, and a compact carrying case.

Safety Guidelines

Always prioritize safety during drone operation. Failure to follow these guidelines may result in injury, damage, or legal penalties.

- Ensure the drone is fully charged before each flight.
- Operate the drone in open areas, away from people, animals, buildings, and obstacles.
- Maintain visual line of sight with the drone at all times.
- Avoid flying in strong winds, rain, or other adverse weather conditions.
- Respect local regulations and airspace restrictions. In Canada, drones under 250g generally do not require registration, but other safety guidelines apply.
- Do not operate near airports or restricted airspace.
- Perform pre-flight checks, including propeller inspection and calibration.

Package Contents

Verify that all items are present in your package:

- Potensic P5G Drone
- Remote Controller
- 2 x Lithium Polymer Batteries (for drone)
- 4 x Propeller Blades (spare)
- 4 x Protection Shields
- 1 x USB Charging Cable
- 4 x Blade Caps
- Necessary Tools (e.g., screwdriver)
- User Manual (this document)

Note: The remote controller requires 3 AAA batteries, which are not included.

Setup Guide

1. Charging the Batteries

Connect the drone batteries to the USB charging cable and plug into a suitable USB power source. The batteries provide up to 20 minutes of flight time each, totaling 40 minutes with both batteries.



Image: Two drone batteries, highlighting their capacity for a total of 40 minutes of flight time.

2. Installing Components

- **Drone Battery:** Insert the charged battery into the drone's battery compartment until it clicks securely.
- **Propeller Guards:** Attach the protection shields to each motor arm by clicking them into place. This is recommended for beginners.
- **Remote Controller Batteries:** Open the battery compartment on the remote controller and insert 3 AAA batteries (not included), ensuring correct polarity.

3. App Installation and Connection

Download the "PotensicFly" application from your smartphone's app store. This app is essential for controlling the drone and accessing advanced features.

1. Power on the drone and the remote controller.
2. On your smartphone, connect to the drone's Wi-Fi network (usually named "Potensic-P5G-XXXX").
3. Open the "PotensicFly" app. The app should automatically detect and connect to the drone.

4. Perform geomagnetic calibration as prompted by the app. This involves rotating the drone horizontally and vertically until calibration is complete. This step is crucial for stable GPS flight.



Image: The drone demonstrating stable flight, indicating ease of use for beginners with features like air pressure sensor and one-key takeoff/landing.

Operating the Drone

Basic Flight Controls

- **One-Key Takeoff/Landing:** Press the dedicated button on the remote or in the app for automatic takeoff and landing.
- **Joysticks:** Use the left joystick for altitude and rotation, and the right joystick for forward/backward and left/right movement.
- **Speed Modes:** The drone offers three adjustable speeds (30%, 60%, 100%) to suit different skill levels, from beginners to professionals.

GPS Assisted Flying

The integrated GPS system allows for stable hovering and precise positioning. Ensure sufficient GPS satellite connection before flight for optimal performance.

Your browser does not support the video tag.

Video: Demonstrates the Potensic P5G drone's features, including setup, GPS-assisted flight, adjustable speeds, in-flight adjustable 4K camera, Follow Me mode, Circle Fly, and One Key Return. The video shows the drone being unboxed from its carrying case, prepared for flight, and performing various maneuvers in an open field, highlighting its ease of use and intelligent functions.

Intelligent Flight Modes

Access these modes via the "PotensicFly" app for enhanced flight experiences:

- **Trajectory Flight (Waypoint Fly):** Draw a path on the app's map, and the drone will automatically follow it.
- **Follow Me:** The drone will automatically follow your movement, keeping you in the frame.
- **Circle Flight:** The drone will orbit a designated point or subject, capturing a 360-degree view.



Image: Visual representation of the drone's intelligent flight modes: Circle Flight, Waypoint Fly, and Follow Me, demonstrating its versatile

capabilities.

4K Camera and FPV

The drone is equipped with a 4K 90° adjustable camera. Utilize the 5G WiFi FPV technology to view real-time footage on your smartphone.

- **Adjustable Camera Angle:** Control the camera's vertical angle remotely during flight for optimal shot composition.
- **Real-time FPV:** Stream live video directly to your smartphone via the PotensicFly app, providing an immersive flight experience.



Image: A detailed view of the drone's 4K UHD camera, emphasizing its servo-controlled adjustable angle for capturing diverse perspectives.

Maintenance

Regular maintenance ensures the longevity and optimal performance of your Potensic P5G drone.

- **Cleaning:** After each flight, gently wipe the drone body and camera lens with a soft, dry cloth to remove dust and debris.
- **Propeller Inspection:** Regularly check propellers for any cracks, bends, or damage. Replace damaged propellers immediately using the provided spare parts.
- **Battery Care:** Store batteries in a cool, dry place. Do not overcharge or completely drain batteries. If storing for extended periods, charge them to about 50-60%.
- **Storage:** Store the drone in its waterproof carrying case to protect it from physical damage and environmental elements.



Image: The Potensic P5G drone positioned beside its dedicated carrying backpack, illustrating its compact and portable design for outdoor use.

Troubleshooting

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
Drone does not take off or flies erratically.	Improper calibration, insufficient GPS signal, low battery.	Perform geomagnetic calibration. Ensure drone has connected to enough GPS satellites (check app). Charge batteries fully.
Choppy live video feed (FPV).	Signal interference, distance from controller, environmental factors.	Ensure clear line of sight between drone and controller. Reduce distance. Avoid areas with high Wi-Fi interference.
Drone drifts in flight.	Windy conditions, uncalibrated sensors.	Avoid flying in windy conditions. Re-calibrate the drone's sensors.
Auto-return function not working as expected.	Insufficient GPS signal, obstacles in return path.	Ensure strong GPS signal. The drone attempts to return to the takeoff point; ensure the path is clear.

Specifications

Feature	Detail
Brand	Potensic
Model Name	P5G
Camera	UHD 4K, 90° adjustable
FPV Transmission	5G WiFi
Flight Time	Up to 40 minutes (with 2 batteries)
Positioning System	GPS Satellite Positioning
Flight Modes	Trajectory Flight, Follow Me, Circle Flight, Headless Mode, Altitude Maintenance
Speed Settings	30%, 60%, 100%
Weight	Less than 250g (approx. 238g with battery)
Dimensions	37.7 x 25.5 x 12.3 cm
App Control	PotensicFly

Warranty and Support

For warranty information, technical support, or any product-related inquiries, please refer to the official Potensic website or contact their customer service directly. Keep your purchase receipt as proof of purchase.
If you encounter any problems, please contact us for assistance.

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