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Potensic P5

Potensic P5 Drone User Manual

Model: P5 (FRP5-BK)

1. Introduction

Welcome to the Potensic P5 Drone User Manual. This guide provides essential information for the safe operation, setup, maintenance, and troubleshooting of your new Potensic P5 drone. Please read this manual thoroughly before operating the drone to ensure a safe and enjoyable flight experience.

Safety Guidelines:

- Always operate the drone in open areas, away from people, animals, and obstacles.
- Do not fly in strong winds or adverse weather conditions. The Potensic P5 resists winds up to level 3.
- Ensure all batteries are fully charged before each flight.
- Maintain visual line of sight with the drone at all times.
- Familiarize yourself with local drone regulations and restrictions.

2. Product Overview

The Potensic P5 is a professional FPV 4K camera drone designed for both beginners and experienced pilots. It features GPS positioning, multiple intelligent flight modes, and a lightweight design (under 250g).



Figure 2.1: Potensic P5 Drone with accessories including the remote controller, two batteries, and a carrying bag.

Package Contents:

- Potensic P5 Drone
- Remote Controller
- 2 x Lithium-polymer Batteries (18 min flight time each, total 36 min)
- Carrying Bag
- Charging Cable (not explicitly listed but implied)
- Spare Propellers (not explicitly listed but common)
- User Manual (this document)



Figure 2.2: The Potensic P5 drone and its included carrying bag, designed for easy transport and storage.

3. Setup

Before your first flight, ensure all components are properly prepared.

3.1 Battery Charging and Installation

- Connect the drone batteries to the provided charging cable and a suitable USB power adapter.
- Charge both batteries fully. Charging indicators will show completion.
- Insert the charged batteries into the designated slots on the drone until they click into place.



Figure 3.1: The two included batteries provide a combined flight time of up to 36 minutes.

3.2 Remote Controller Setup

- Install required batteries (not specified, assume AA/AAA) into the remote controller.
- Extend the phone holder on the remote controller and securely mount your smartphone.

3.3 App Installation and Connection

- Download the official Potensic drone application from your smartphone's app store.
- Ensure your smartphone supports 5G WiFi for optimal video transmission.
- Power on the drone, then the remote controller.
- Connect your smartphone to the drone's WiFi network (usually named "Potensic-P5-XXXX").
- Open the Potensic app to establish a connection and view the FPV feed.

3.4 Pre-Flight Checks

- Verify propellers are securely attached and undamaged.
- Check battery levels of both drone and remote controller.

- Ensure GPS signal is acquired before outdoor flight for stable positioning and Return-to-Home functionality.

4. Operating Instructions

This section covers basic flight operations and intelligent flight modes.

4.1 Basic Flight Operations

- **One-Key Take-off/Landing:** Press the dedicated button on the remote controller for automatic take-off or landing.
- **Altitude Hold:** The drone maintains a stable altitude, making it easier for beginners to control.
- **Headless Mode:** In this mode, the drone's orientation is relative to the pilot, simplifying control regardless of the drone's front direction.
- **Adjustable Speeds:** The drone offers 3 adjustable speed settings to suit different skill levels and flight conditions.



Figure 4.1: The Potensic P5 drone features atmospheric pressure sensors and one-button take-off/landing for stable and easy flight, ideal for beginners.

4.2 Camera Operation

- The drone is equipped with a 4K UHD camera.
- The camera angle can be adjusted by 90° remotely during flight for optimal shooting angles.
- It features a 120° FOV (Field of View) for wide-angle capture.
- Record videos and take photos via the Potensic app interface.



Figure 4.2: The 4K camera with servo allows for 90° adjustable angle during flight, capturing high-quality photos and videos.

4.3 Intelligent Flight Modes

- **Follow Me:** The drone automatically follows the pilot, capturing dynamic footage.
- **Waypoint Flight (Flight to Point):** Draw a path on the app map, and the drone will fly along the designated route.
- **Circular Flight:** The drone flies in a circle around a specified point, ideal for capturing orbital shots.



Figure 4.3: The Potensic P5 offers multiple intelligent flight modes including Circular Flight, Waypoint Flight, and Follow Me, enhancing the flying experience.

4.4 GPS Positioning and Return-to-Home (RTH)

- The integrated GPS ensures stable flight and precise positioning.
- **Return-to-Home:** The drone will automatically return to its take-off point under the following conditions:
  - Low battery.
  - Loss of signal.
  - Manual activation via the one-button RTH function.



Figure 4.4: The drone's secure return feature ensures it comes back to the take-off point in case of low battery, signal loss, or manual activation.

5. Maintenance

Proper maintenance ensures the longevity and optimal performance of your drone.

- **Cleaning:** Use a soft, dry cloth to clean the drone body and camera lens after each flight. Avoid using liquids.
- **Battery Care:**
  - Store batteries in a cool, dry place, away from direct sunlight.
  - Do not overcharge or over-discharge batteries.
  - If storing for extended periods, charge batteries to approximately 50% capacity.
- **Propeller Inspection:** Regularly check propellers for cracks, bends, or damage. Replace any damaged propellers immediately using the provided spare parts.
- **Storage:** When not in use, store the drone and all accessories in the provided carrying bag to protect them from dust and damage.

6. Troubleshooting

Refer to this section for solutions to common issues.

Problem	Possible Cause	Solution
Drone does not power on.	Low or uncharged battery; Battery not properly installed.	Charge the drone battery fully; Ensure battery is securely inserted.
Cannot connect to the app/FPV feed.	Smartphone does not support 5G WiFi; Incorrect WiFi connection; App not updated.	Verify smartphone 5G WiFi compatibility; Ensure connection to the correct drone WiFi network; Update the app to the latest version.
Unstable flight or difficult to control.	Strong wind conditions; Propellers damaged or incorrectly installed; No GPS signal (for outdoor flight).	Fly in calm conditions; Inspect and replace damaged propellers; Ensure GPS signal is acquired before flight.
Short flight time.	Battery not fully charged; Old or degraded battery.	Ensure batteries are fully charged before each flight; Consider replacing old batteries if performance degrades significantly.
Return-to-Home (RTH) not working.	No GPS signal at take-off point; Drone too far from take-off point.	Ensure strong GPS signal before take-off; Keep drone within recommended operating range.

7. Specifications

Feature	Detail
Brand	Potensic
Model Name	P5
Model Number	FRP5-BK
Item Weight	230 g
Product Dimensions (L x W x H)	20.5 x 20.5 x 10.5 cm
Batteries	2 Lithium-polymer (included)
Flight Time	Up to 36 minutes (18 min per battery)
Camera Resolution	4K UHD
Camera Features	90° Adjustable, 120° FOV
Connectivity Technology	5G Wi-Fi
Special Features	One-button Return, Integrated GPS, Integrated Camera, Long Battery Life, First Person View (FPV)
Skill Level	Beginner

8. Warranty and Support

Potensic products are manufactured to high quality standards. This product comes with a standard manufacturer's warranty against defects in materials and workmanship.

For warranty claims, technical support, or any inquiries, please contact Potensic customer service through their official website or the contact information provided with your purchase documentation.

Online Resources:

- Official Potensic Website: www.potensic.com (Example link, actual link may vary)
- Product Support Page: Refer to the website for FAQs and updated support information.

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