Potensic T25 FPV Drone

Potensic T25 Drone User Manual

Model: T25 FPV Drone

Introduction

This manual provides detailed instructions for the safe operation, setup, and maintenance of your Potensic T25 FPV Drone. Please read this manual thoroughly before operating the drone to ensure proper function and to avoid damage or injury. The Potensic T25 is a GPS-enabled quadcopter featuring a 2K HD camera, real-time FPV transmission, and intelligent flight modes such as Follow Me and Automatic Return to Home.



Image: The Potensic T25 drone, its remote controller, two lithium-polymer batteries, and a durable aluminum carrying case, showcasing the complete package.

1. Setup

1.1 Unboxing and Inspection

Carefully unpack all components from the aluminum carrying case. Verify that all items listed in the packing list are present and undamaged. The package typically includes the drone, remote controller, two batteries, propellers, and a charging cable.

1.2 Battery Charging and Installation

1. **Drone Battery:** Connect the drone battery to the provided charger and plug it into a power source. Charge until the indicator light shows a full charge. Once charged, slide the battery securely into the drone's battery compartment until it clicks into place.
2. **Remote Controller Battery:** The remote controller uses internal rechargeable batteries. Charge it using the provided USB cable.

1.3 Propeller Installation

Attach the propellers to the corresponding motor shafts. Ensure that propellers marked 'A' are installed on 'A' motors and 'B' on 'B' motors. Tighten them securely according to the instructions provided in the quick start guide to prevent detachment during flight.

1.4 App Installation and Connection

Download the official Potensic drone application from your smartphone's app store. Power on the drone and the remote controller. Connect your smartphone to the drone's Wi-Fi network (usually named 'Potensic_XXXXXX'). Open the app to establish a connection and view the live FPV feed.

1.5 GPS and Compass Calibration

Before the first flight and whenever flying in a new location, perform GPS and compass calibration as instructed by the drone's app or quick start guide. This ensures accurate positioning and stable flight. Typically, this involves rotating the drone horizontally and vertically.

2. Operating Instructions

2.1 Pre-Flight Checklist

- Ensure all batteries are fully charged.
- Check that propellers are securely attached and undamaged.
- Verify GPS signal strength (at least 7-8 satellites for stable flight).
- Confirm successful connection between drone, remote controller, and smartphone app.
- Choose an open, clear area free from obstacles, people, and electromagnetic interference.

2.2 Take-off and Landing

The Potensic T25 features a one-key take-off and landing function. Press the designated button on the remote controller or in the app, and the drone will automatically ascend to a safe altitude or descend and land gently.

2.3 Flight Controls

Familiarize yourself with the remote controller's joysticks and buttons. The left joystick typically controls altitude and yaw (rotation), while the right joystick controls forward/backward and left/right movement. The drone also supports Headless Mode for easier orientation, and Altitude Hold for stable hovering.

2.4 GPS Intelligent Flight Modes

- **Automatic Return to Home (RTH):** The drone will automatically return to its take-off point if the battery is low, the signal is lost, or the RTH button is pressed. Ensure the RTH point is accurately recorded by the GPS before flight.



Image: A visual representation of the drone's GPS Return to Home function, showing flight paths for automatic return due to low power, signal loss, or manual activation.

- **Follow Me Mode:** In this mode, the drone will follow the GPS signal of your smartphone, capturing video and photos as you move. Activate this feature via the app.



Image: The Potensic T25 drone autonomously following a person walking across a suspension bridge, demonstrating its Follow Me GPS tracking capability.

- **Waypoint Fly:** Plan a custom flight path by setting multiple waypoints on the map within the app. The drone will then fly along the designated route automatically.



Image: The Potensic T25 drone executing a pre-programmed flight path over a scenic coastal road, illustrating the Waypoint Fly feature.

2.5 Camera Operation and FPV

The Potensic T25 is equipped with a 2K HD Wi-Fi camera with a 90° adjustable angle. Insert a micro SD card (not included) into the drone for recording high-quality video and photos. The FPV (First Person View) real-time transmission allows you to see what the drone sees directly on your smartphone screen. You can capture aerial footage and share it instantly.



Image: A detailed view of the Potensic T25's 2K Ultra HD camera lens, highlighting its 120-degree wide-angle capability and 75-degree adjustment range.



Image: Individuals gathered around a smartphone, demonstrating the FPV real-time transmission feature of the Potensic T25 drone, allowing instant sharing of live video and pictures.

3. Maintenance

3.1 Cleaning

After each flight, gently wipe the drone's body with a soft, dry cloth to remove dust or debris. Avoid using harsh chemicals or excessive moisture. Ensure the camera lens is clean for optimal image quality.

3.2 Propeller Replacement

Inspect propellers regularly for cracks, bends, or chips. Damaged propellers can affect flight stability and safety. Replace any damaged propellers immediately with genuine Potensic T25 replacement parts, ensuring correct 'A' and 'B' propeller placement.

3.3 Battery Care

Store batteries in a cool, dry place away from direct sunlight and extreme temperatures. Do not overcharge or over-discharge batteries. If storing for extended periods, charge them to approximately 50-60% capacity.

3.4 Storage

When not in use, store the drone and its components in the provided aluminum carrying case to protect them from dust, moisture, and physical damage.

4. Troubleshooting

- **Drone not powering on:** Ensure the battery is fully charged and correctly installed. Press and hold the power button for a few seconds.
- **No FPV feed:** Check that your smartphone is connected to the drone's Wi-Fi network. Restart the drone, controller, and app. Ensure the app has necessary permissions.
- **Unstable flight/Drifting:** Perform GPS and compass calibration. Check for damaged propellers. Ensure you are flying in an open area with strong GPS signal.
- **Return to Home not working:** Ensure the drone acquired sufficient GPS satellites (usually 7+) before take-off. Fly in an open area without obstructions.
- **Remote controller not connecting:** Ensure both the drone and controller are powered on. Follow the pairing instructions in the quick start guide.

5. Specifications

Feature	Detail
Brand	Potensic
Model Name	T25 FPV Drone
Weight	1.76 Kilograms
Dimensions (L x W x H)	53 x 41 x 54 cm
Battery Type	Lithium-polymer (2 included)
Battery Capacity	2000 mAh
Video Recording Resolution	1080p (2K HD camera)
Video Capture Format	MP4
Special Features	Follow Me Mode, GPS Positioning, Altitude Hold, One-Key Take-off/Landing, Headless Mode, Automatic Return to Home
Control Distance	Up to 300 meters
Skill Level	Beginner

Included Components	Drone, Remote Controller, 2 Batteries, Carrying Case

6. Warranty Information

For detailed warranty information, please refer to the warranty card included with your product or visit the official Potensic website. Keep your proof of purchase for warranty claims.

7. Customer Support

If you encounter any issues or have questions not covered in this manual, please contact Potensic customer support. You can usually find contact information on the official Potensic website or through the retailer where you purchased the drone.

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