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Potensic ATOM LT

Potensic ATOM LT GPS Drone User Manual

Model: ATOM LT | Brand: Potensic

1. Introduction

Welcome to the world of aerial photography and exploration with your new Potensic ATOM LT GPS Drone. This manual provides essential information for setting up, operating, and maintaining your drone to ensure a safe and enjoyable flight experience. The Potensic ATOM LT is a lightweight, foldable drone designed for beginners and enthusiasts, featuring a 2.5K EIS camera, long flight time, and precise GPS functions.
Please read this manual thoroughly before your first flight and keep it for future reference. Always prioritize safety and adhere to local regulations regarding drone operation.

2. Product Overview

2.1 Package Contents

The Potensic ATOM LT Standard Kit includes the following components:

- Potensic ATOM LT Drone x 1
- 3000mAh Intelligent Battery x 1
- Remote Control x 1
- Cable (Type C/Lightning) x 1
- Tape x 1
- Spare Pair of Propellers x 4
- Screwdriver x 1
- Specific Screws of Blades x 8



Figure 2.1: Contents of the Potensic ATOM LT Standard Kit.

2.2 Key Features

- **Ultra-Lightweight Design:** Weighing under 249g, the ATOM LT does not require FAA or Remote ID registration, making it convenient for travel and use. Its foldable design (3.5x5.6x2.3 inches folded) ensures portability.
- **Extended Flight Time:** Equipped with a 3000mAh intelligent battery, the drone offers up to 40 minutes of maximum flight time on a single charge, ideal for longer exploration and practice sessions.
- **High-Quality Camera:** Features a 2.5K EIS (Electronic Image Stabilization) camera with a Sony CMOS sensor, supporting 2560x1440 aerial photos and 2.5K@30fps HD videos. The ShakeVanish 2.0 stabilization system ensures clear and smooth footage. The camera has a 118° FOV and is vertically adjustable from +20° to -70°.
- **Long-Range Transmission:** The PixSync 2.0 transmission system provides a stable HD video feed up to 4KM (13,123ft), allowing for extensive exploration with minimal latency.
- **Brushless Motor & Wind Resistance:** Built-in brushless motors ensure stable flight performance, even in Level 5 wind conditions, providing reliable control and reducing operational errors.
- **Precise GPS Functions:** Supports 4 satellite positioning systems (GPS, GLONASS, Galileo, Beidou) for high-accuracy positioning, enabling features like Auto Return Home, Follow Me, Waypoint Fly, and Circle Fly.

- **SurgeFly Control:** Offers 3 flight modes (Video, Normal, and Sport) with a simple and flexible control system, making it suitable for drone beginners.

2.3 Visual Overview



Figure 2.2: Potensic ATOM LT Drone and Remote Controller.



Figure 2.3: Illustrates the drone's extended flight time and transmission range.



Figure 2.4: Demonstrates the effectiveness of ShakeVanish 2.0 stabilization.



Figure 2.5: The drone's foldable and portable design.



Figure 2.6: High-Precise GPS capabilities for intelligent flight modes.



Figure 2.7: The drone's ability to withstand Level 5 winds.

3. Setup

3.1 Charging the Battery

Before first use, fully charge the intelligent flight battery and the remote control. Use the provided charging cable. The battery indicator lights will show charging status.

- Connect the battery to the charger.
- Plug the charger into a power outlet.
- Charging is complete when all indicator lights are solid.

3.2 Propeller Installation

Ensure propellers are installed correctly according to their markings (A or B) and the corresponding motor arms. Use the provided screwdriver and screws.

1. Unfold the drone arms.
2. Match the propeller type (A or B) to the motor arm.
3. Secure each propeller with the appropriate screws.

3.3 Remote Control and App Setup

Download the official Potensic app (compatible with iOS 11+ and Android 7.0+) from your device's app store. Connect your smartphone to the remote control using the provided Type C/Lightning cable.

1. Power on the remote control.
2. Power on the drone.
3. Open the Potensic app on your smartphone.
4. Follow the in-app instructions to connect the drone and remote control.

4. Operating Your Drone

The Potensic ATOM LT is designed for ease of use, even for beginners. Always ensure you are in an open area and have a strong GPS signal before attempting flight.

4.1 Pre-Flight Checks

- Ensure all batteries (drone and remote) are fully charged.
- Check that propellers are securely attached and undamaged.
- Verify a strong GPS signal (indicated in the app) before takeoff.
- Perform compass calibration as instructed by the app or manual.

4.2 Flight Modes

The ATOM LT offers three flight modes to suit different skill levels and flight scenarios:

- **Video Mode:** Optimized for smooth, stable video recording.
- **Normal Mode:** Standard flight mode for general use.
- **Sport Mode:** Provides increased speed and responsiveness for dynamic flying.

4.3 Take-off and Landing

Refer to the in-app tutorial or the detailed flight tutorial video for precise instructions on automated and manual take-off/landing procedures.

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Video 4.1: Potensic ATOM LT Drone Intelligent Flight Tutorial. This video provides a comprehensive guide to various flight operations, including take-off and landing.

4.4 Intelligent Flight Features

Leverage the drone's advanced GPS capabilities for enhanced flight experiences:

- **Auto Return Home (RTH):** The drone will automatically return to its take-off point if the battery is low, connection is lost, or RTH is manually activated.
- **Follow Me:** The drone will automatically follow the remote controller or connected smartphone, capturing dynamic footage of your movement.
- **Waypoint Fly:** Plan a custom flight path by setting multiple waypoints on the map within the app, and the drone will fly along the designated route.
- **Circle Fly:** The drone will orbit a designated point of interest, maintaining a set radius and altitude, perfect for

cinematic shots.

4.5 Camera Operation

The 2.5K EIS camera allows for high-quality aerial photography and videography. Control the camera's tilt and capture photos/videos directly from the remote controller or the Potensic app.

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Video 4.2: Potensic ATOM LT 2.5K GPS Drone with 40 Mins Battery. This video highlights the drone's camera capabilities and battery life.

5. Maintenance

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

- **Cleaning:** After each flight, gently wipe down the drone and propellers with a soft, dry cloth to remove dust and debris. Avoid using liquids directly on electronic components.
- **Propeller Inspection:** Regularly inspect 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 fully discharge batteries for extended periods. For long-term storage, charge batteries to approximately 50-60%.
- **Firmware Updates:** Potensic regularly releases firmware updates to improve flight performance and add new features. Connect your drone to the app and check for available FOTA (Firmware Over-The-Air) updates. Always ensure a stable internet connection during updates.
- **Storage:** When not in use, fold the drone and store it in its original packaging or a protective case to prevent damage.

6. Troubleshooting

This section addresses common issues you might encounter and their solutions.

Problem	Possible Cause	Solution
Drone does not power on.	Battery is not charged or not properly inserted.	Ensure battery is fully charged and correctly inserted into the drone.
Cannot connect to the remote control/app.	Incorrect pairing procedure; app not updated; cable issue.	Follow the pairing instructions in Section 3.3. Ensure the app is updated and the connection cable is secure.
Weak or no GPS signal.	Flying indoors or in an area with obstructions (tall buildings, dense trees).	Fly in an open outdoor area with a clear view of the sky. Wait for sufficient GPS satellites to connect.
Unstable flight or drifting.	Improper calibration; strong winds; damaged propellers.	Perform compass and IMU calibration. Avoid flying in strong winds (above Level 5). Check and replace damaged propellers.
Poor video/photo quality.	Insufficient lighting; camera lens dirty; SD card issues.	Ensure adequate lighting. Clean the camera lens. Use a recommended high-speed SD card (U3, V30).

If the issue persists, please contact Potensic customer support for further assistance.

7. Specifications

Feature	Detail
Brand	Potensic
Model Name	ATOM LT
Item Weight	249 Grams (8.8 ounces)
Product Dimensions (Folded)	3.5"L x 5.6"W x 2.3"H (approx.)
Product Dimensions (Unfolded)	11.81"L x 9.53"W x 2.28"H
Max Flight Time	40 Minutes
Battery Capacity	3000 mAh Lithium Ion
Video Capture Resolution	2.5K@30fps; 1080P@30fps
Supported Image Format	JPEG (2560*1440 Photo)
Optical Sensor Technology	CMOS (SONY CMOS Sensor)
Maximum Range (Transmission)	4 Kilometers (13,123 ft)
Connectivity Technology	Wi-Fi (PixSync 2.0)
Control Type	Remote Control
Material	Lightweight composite (plastic or carbon fiber)
GPS Support	GPS, GLONASS, Galileo, Beidou
Wind Resistance Level	Level 5

8. Warranty and Support

Potensic is committed to providing high-quality products and excellent customer service. For any questions, technical support, or warranty inquiries, please contact Potensic customer support. Keep your purchase receipt as proof of purchase for warranty claims.
For the most up-to-date support information and contact details, please visit the official Potensic website or refer to the contact information provided with your product packaging.

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