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Potensic ATOM LT 2B

Potensic ATOM LT GPS Drone User Manual

Model: ATOM LT 2B

1. Overview

The Potensic ATOM LT is a lightweight, foldable GPS drone designed for both beginners and experienced pilots. Weighing under 249g, it does not require FAA or Remote ID registration. It features a 2.5K EIS camera for stable aerial photography and video, a 4KM FPV transmission range, and intelligent flight modes for an enhanced flying experience.



Image: The Potensic ATOM LT drone, its remote controller, and two intelligent batteries.

2. What's in the Box

Verify that all components are present in the package:

- Potensic ATOM LT Drone x 1
- 3000mAh Intelligent Battery x 2
- Remote Control x 1
- Adapter Cables (Type C/Lightning) x 1
- Spare Propellers (4 pairs) x 1
- Screwdriver x 1
- Specific Screws for Blades (8 pieces) x 1



Image: All items included in the Potensic ATOM LT Expansion Kit package.

3. Product Features

3.1 Design and Portability

The ATOM LT drone is designed to be highly portable and convenient. Its foldable arms allow it to be easily stored and carried, fitting into small bags or even pockets. With a take-off weight of under 249g, it is exempt from FAA or Remote ID registration requirements, making it ideal for casual use.



Image: The Potensic ATOM LT drone in its folded, compact state, held in a hand.

3.2 Flight Performance

Equipped with two 3000mAh intelligent batteries, the ATOM LT offers an impressive maximum flight time of 80 minutes (40 minutes per battery). Its brushless motors ensure stable flight even in Level 5 wind conditions, providing reliable performance. The SurgeFly 2.0 system offers three distinct flight modes: Video, Normal, and Sport, catering to different flying preferences and skill levels.



Image: The ATOM LT drone flying, illustrating its extended flight time and transmission range.



Image: The drone demonstrating its ability to withstand Level 5 wind conditions.



Image: Visual representation of the SurgeFly system's fast and flexible control.



Image: An illustration of the drone's brushless motors, which provide smooth and stable control.

3.3 Camera System

The ATOM LT is equipped with a 2.5K camera featuring a Sony CMOS sensor, capable of capturing 2560x1440 aerial photos and 2.5K@30fps HD videos. The ShakeVanish 2.0 stabilization technology ensures clear and smooth footage by providing superior camera stability. The camera offers a 118° Field of View (FOV) and is vertically adjustable from +20° to -70°, allowing for dynamic First Person View (FPV) experiences.

3.4 GPS and Intelligent Flight Modes

The drone supports four satellite positioning systems: GPS, GLONASS, Galileo, and Beidou, ensuring high-precision positioning. This enables reliable Auto Return Home functionality and various intelligent flight features such as Follow Me, Waypoint Fly, and Circle Fly, enhancing the user's flying and content creation capabilities.



Image: The drone utilizing its high-precise GPS for intelligent flight modes.

4. Setup

4.1 Charging Batteries

Before first use, fully charge both the drone's intelligent batteries and the remote controller. Use the provided charging cables and a compatible USB power adapter (not included). The battery indicator lights will show charging status.

4.2 Installing Propellers

Attach the propellers to the corresponding motor shafts. Ensure that propellers marked 'A' are installed on 'A' motors and 'B' on 'B' motors. Secure them firmly with the provided screws and screwdriver. Incorrect installation can affect flight stability.

4.3 Connecting Remote Controller and App

Download the official Potensic ATOM LT app from your device's app store (compatible with iOS 11+ and Android 7.0+). Use the provided adapter cable (Type C or Lightning) to connect your smartphone to the remote controller. Power on the remote controller, then the drone. Follow the in-app instructions to establish a connection.

4.4 Calibration

For optimal flight performance and GPS accuracy, it is recommended to calibrate the drone before each flight, especially when flying in a new location. Follow the calibration steps detailed in the Potensic ATOM LT app. This typically involves rotating the drone in specific orientations to calibrate its compass and IMU.

5. Operating Instructions

5.1 Pre-Flight Checks

Before each flight, ensure the following:

- Batteries are fully charged and securely installed.
- Propellers are correctly installed and free from damage.
- The drone and remote controller are successfully paired.
- GPS signal is strong (indicated in the app) for outdoor flights.
- Fly in an open area, away from obstacles, people, and restricted airspace.

5.2 Take-off and Landing

The ATOM LT offers both automatic and manual take-off/landing options:

- **Automatic Take-off:** Press the one-touch take-off button in the app or on the remote controller. The drone will automatically ascend to a safe hovering altitude.
- **Automatic Landing:** Press the one-touch landing button. The drone will descend and land automatically. Ensure the landing area is clear.
- **Manual Landing:** Gently pull down the left joystick (throttle) to descend. For a smooth landing, bring the drone close to a flat surface and continue holding the descend stick down until the motors shut off.

5.3 Flight Modes

The drone features three flight modes accessible via the remote controller or app:

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

5.4 Camera Operation

Control the camera directly from the remote controller or through the app interface:

- **Photo/Video Capture:** Use the dedicated buttons on the remote controller or the app to start/stop recording and take photos.
- **Gimbal Control:** Adjust the camera's vertical tilt using the scroll wheel on the remote controller.
- **FPV Experience:** The PixSync 2.0 transmission system provides a smooth HD video feed to your connected smartphone, allowing for real-time First Person View flying up to 4KM.

6. Maintenance

6.1 Battery Care

To prolong battery life:

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

6.2 Propeller Replacement

Inspect propellers regularly for cracks, bends, or other damage. Replace damaged propellers immediately using the provided spare parts and screwdriver. Ensure correct propeller type (A or B) is installed on the corresponding motor.

6.3 Firmware Updates

The drone supports Firmware Over-The-Air (FOTA) updates. Regularly check the Potensic ATOM LT app for available firmware updates. Keeping the firmware up-to-date ensures optimal performance, new features, and bug fixes.

6.4 Cleaning

Clean the drone and remote controller with a soft, dry cloth. Avoid using harsh chemicals or solvents. Ensure no dust or debris accumulates in the motors or camera lens.

7. Troubleshooting

7.1 Drone Not Taking Off / GPS Issues

The ATOM LT requires a strong GPS signal for outdoor flight. If the drone is not taking off or GPS is unstable:

- Ensure you are in an open outdoor area with a clear view of the sky.
- Wait for the drone to acquire sufficient GPS satellites (indicated in the app). This may take a few minutes depending on your location.
- Perform a compass calibration as described in the Setup section.
- Check for any magnetic interference in the flight area.

7.2 Unstable Flight / Drifting

If the drone exhibits unstable flight or drifts:

- Recalibrate the IMU (Inertial Measurement Unit) and compass via the app.
- Check all propellers for damage or incorrect installation. Replace if necessary.
- Ensure flight is conducted in suitable weather conditions (avoid strong winds).

7.3 Camera Freezing / Poor Quality

If you experience issues with camera performance:

- Ensure the drone's firmware is up to date.
- Check the connection between your phone and the remote controller.
- Clean the camera lens gently with a microfiber cloth.
- Ensure sufficient lighting conditions for optimal image quality.

8. Specifications

Feature	Detail
Model	ATOM LT 2B
Weight	Under 249g (8.8 ounces)
Dimensions (Folded)	3.5 x 5.6 x 2.3 inches
Max Flight Time	80 minutes (40 minutes per battery)
Battery Capacity	2 x 3000mAh Lithium Ion
Camera Resolution (Photo)	2560 x 1440
Camera Resolution (Video)	2.5K@30fps; 1080P@30fps
Image Stabilization	EIS (ShakeVanish 2.0)
Sensor	Sony CMOS Sensor
FPV Transmission Range	Up to 4KM / 13123ft (PixSync 2.0)
GPS Support	GPS, GLONASS, Galileo, Beidou
Wind Resistance	Level 5
Motor Type	Brushless
App Compatibility	iOS 11+, Android 7.0+
Media Type	Micro SDXC Card (not included)

9. Warranty and Support

Potensic provides a warranty for its products. For detailed warranty information, terms, and conditions, please refer to the official Potensic website or contact their customer support. If you encounter any issues or have questions not covered in this manual, please reach out to Potensic customer service for assistance.

Potensic Customer Service: www.potensic.com/support

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