Potensic ATOM

Potensic ATOM 3-Axis Gimbal 4K GPS Drone User Manual

Model: ATOM
Brand: Potensic

Introduction

The Potensic ATOM is a lightweight, foldable 4K GPS drone designed for ease of use and high-quality aerial photography and videography. Equipped with a 3-axis gimbal and advanced features, it offers a stable and enjoyable flight experience for both beginners and experienced pilots. This manual provides essential information for safe operation, setup, maintenance, and troubleshooting.



Image: The Potensic ATOM drone, folded, with its remote control and a smartphone attached, showcasing its compact design.

Safety Guidelines

Always prioritize safety when operating the drone. Failure to follow these guidelines may result in injury, damage to property, or legal consequences.

- **Pre-Flight Check:** Ensure all components are in good condition, batteries are charged, and propellers are securely attached before each flight.
- **Flight Environment:** Fly in open areas, away from people, buildings, and obstacles. Avoid flying near airports, power lines, or restricted airspace.
- **Weather Conditions:** Do not fly in strong winds (above Level 5), rain, snow, or fog. Optimal flight conditions are calm and clear.
- **Battery Safety:** Use only original Potensic batteries. Do not overcharge or puncture batteries. Store them in a cool, dry place.
- **Respect Privacy:** Be mindful of privacy laws and personal space when recording videos or photos.
- **Age Recommendation:** This product is intended for adult use.

Package Contents

Verify that all items are present in your Potensic ATOM Standard Kit package:

- Potensic ATOM Drone x 1

- Intelligent Battery (2230mAh) x 1
- Remote Control x 1
- Charging Cable (Micro/Type C/Lightning) x 1
- Velcro Tape x 1
- Spare Propellers x 4 pairs
- Camera Protector x 1
- Screwdriver x 1
- Specific Screws for Blades x 8



Image: A flat lay of all components included in the Potensic ATOM Standard Kit, including the drone, remote, battery, cables, and spare parts.

Component Overview

Potensic ATOM Drone

The ATOM drone features a compact, foldable design, making it highly portable. It weighs less than 249g, which may exempt it from certain FAA registration requirements in some regions.

- **3-Axis Gimbal:** Ensures stable and smooth video footage.
- **4K Camera:** Equipped with a SONY CMOS sensor, capable of 4K/30FPS video and 12MP photos.
- **GPS Module:** Provides precise positioning and enables intelligent flight features like Auto Return.
- **Propellers:** Efficient and durable for stable flight.
- **Battery Compartment:** Houses the intelligent flight battery.



Image: Close-up of the Potensic ATOM drone highlighting its 3-axis gimbal and 4K camera, emphasizing stability.

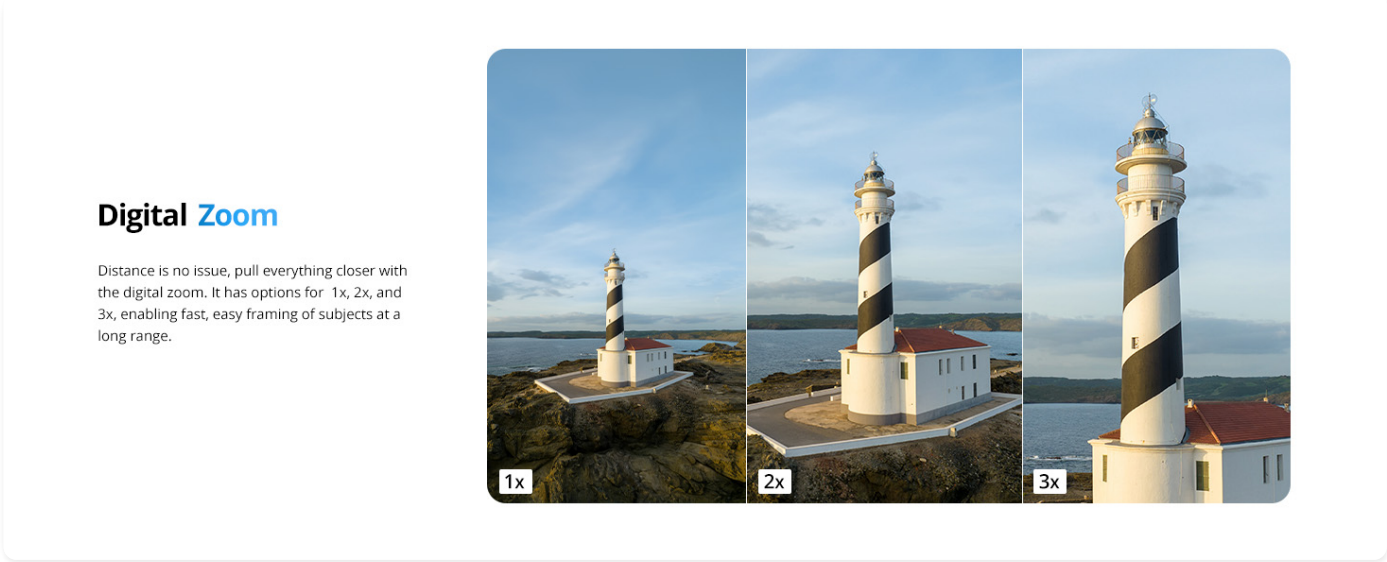


Image: Diagram illustrating the 4K SONY CMOS Sensor and its capabilities for high-resolution imaging.

Remote Control

The remote control provides intuitive and flexible operation of the drone. It features a phone holder for real-time video transmission.

- **Control Sticks:** For flight direction and altitude.
- **Function Buttons:** For takeoff/landing, return-to-home, and mode switching.
- **Phone Holder:** Securely holds your smartphone for FPV (First Person View) and app control.
- **Antennas:** For stable signal transmission up to 6KM.

Setup

1. Charging the Battery

Before first use, fully charge the intelligent flight battery and the remote control.

1. Connect the charging cable to the battery/remote and a USB power adapter (not included).
2. Charging indicators will show progress. Once fully charged, disconnect the cable.

2. Installing Propellers

Ensure propellers are installed correctly according to their markings (A/B) and the drone's motor arms.

1. Match the propeller type (A or B) with the corresponding motor arm.
2. Securely attach the propellers using the provided screws and screwdriver.

3. App Installation and Connection

Download the official Potensic app to your smartphone for full control and features.

1. Scan the QR code in the quick start guide or search for 'PotensicPro' in your app store.
2. Install the app and follow on-screen instructions to connect your drone and remote control via Wi-Fi.

Operating Instructions

Pre-Flight Checks

Before every flight, perform these essential checks:

- Ensure drone and remote batteries are fully charged.
- Check propellers for damage and ensure they are securely fastened.
- Verify GPS signal strength (indicated in the app) before takeoff for stable flight and return-to-home functionality.
- Confirm the flight area is clear of obstacles and people.

Takeoff and Landing

The ATOM drone offers automated takeoff and landing for ease of use.

- **Automatic Takeoff:** Press the one-key takeoff button on the remote or in the app. The drone will automatically ascend to a safe altitude and hover.
- **Manual Takeoff:** Push both control sticks down and outwards to start the motors, then slowly push the left stick up to ascend.
- **Automatic Landing:** Press the one-key landing button. The drone will descend and land automatically.
- **Manual Landing:** Slowly pull the left control stick down to descend. Once landed, pull both sticks down and inwards to stop the motors.

Flight Modes

The Potensic ATOM offers multiple flight modes to suit different flying needs and skill levels.

- **Video Mode:** Optimized for smooth video recording.
- **Normal Mode:** Standard flight mode for general use.
- **Sport Mode:** Increases drone speed and responsiveness for dynamic flying (up to 16m/s).



Image: The Potensic ATOM drone flying over water, illustrating its speed capability of up to 16m/s.

Camera Operation and Intelligent Features

Capture stunning aerial content with the drone's advanced camera and smart features.

- **4K/30FPS Video & 12MP Photo:** Record high-resolution videos and capture detailed still images.
- **Visual Tracking:** The drone can automatically follow a designated subject, keeping it in the frame.
- **QuickShots:** Pre-programmed flight paths for cinematic shots, including Pull-Away, Rocket, Circle, Spiral, and Boomerang.
- **Digital Zoom:** Zoom in on subjects (1x, 2x, 3x) for closer framing without moving the drone.
- **Interval Timer Shooting:** Capture a series of photos at set time intervals for time-lapse creation.



Image: A person on a beach with the Potensic ATOM drone in the background, demonstrating its accurate visual tracking capability.

SurgeFly

3 Flight Modes: Video, Normal and Sport (speed up to 16m/s in 2.8s), allowing you to challenge yourself with flexible and easy flight control experience.

0 2.8s



Image: Three side-by-side images showing the digital zoom capabilities of the drone camera at 1x, 2x, and 3x magnification, focusing on a lighthouse.



Image: A graphical representation of the Interval Timer Shooting Mode interface, showing options for setting photo capture intervals over a scenic landscape.

GPS and Auto Return

The integrated GPS module enhances flight stability and enables critical safety features.

- **High-precision GPS:** Provides accurate positioning for stable hovering and precise flight paths.
- **Auto Return (RTH):** The drone will automatically return to its takeoff point under conditions such as low battery, loss of signal, or manual activation.
- **Waypoint Flight:** Plan custom flight routes by setting waypoints on the map within the app.

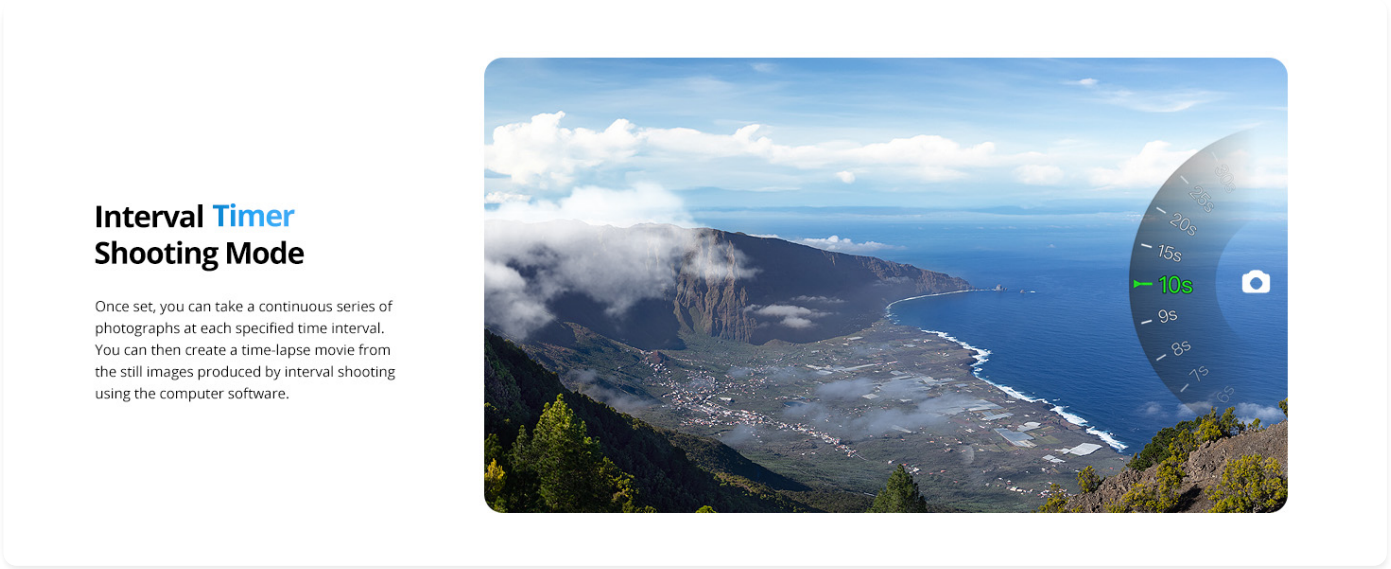


Image: The Potensic ATOM drone hovering over a desert landscape, with blue waves indicating GPS signal and auto-return functionality.

Long Range Transmission

Experience extended flight distances with reliable signal transmission.

- **Max 6KM Transmission:** Advanced PixSync 3.0 technology ensures strong anti-interference capabilities and a long transmission range.

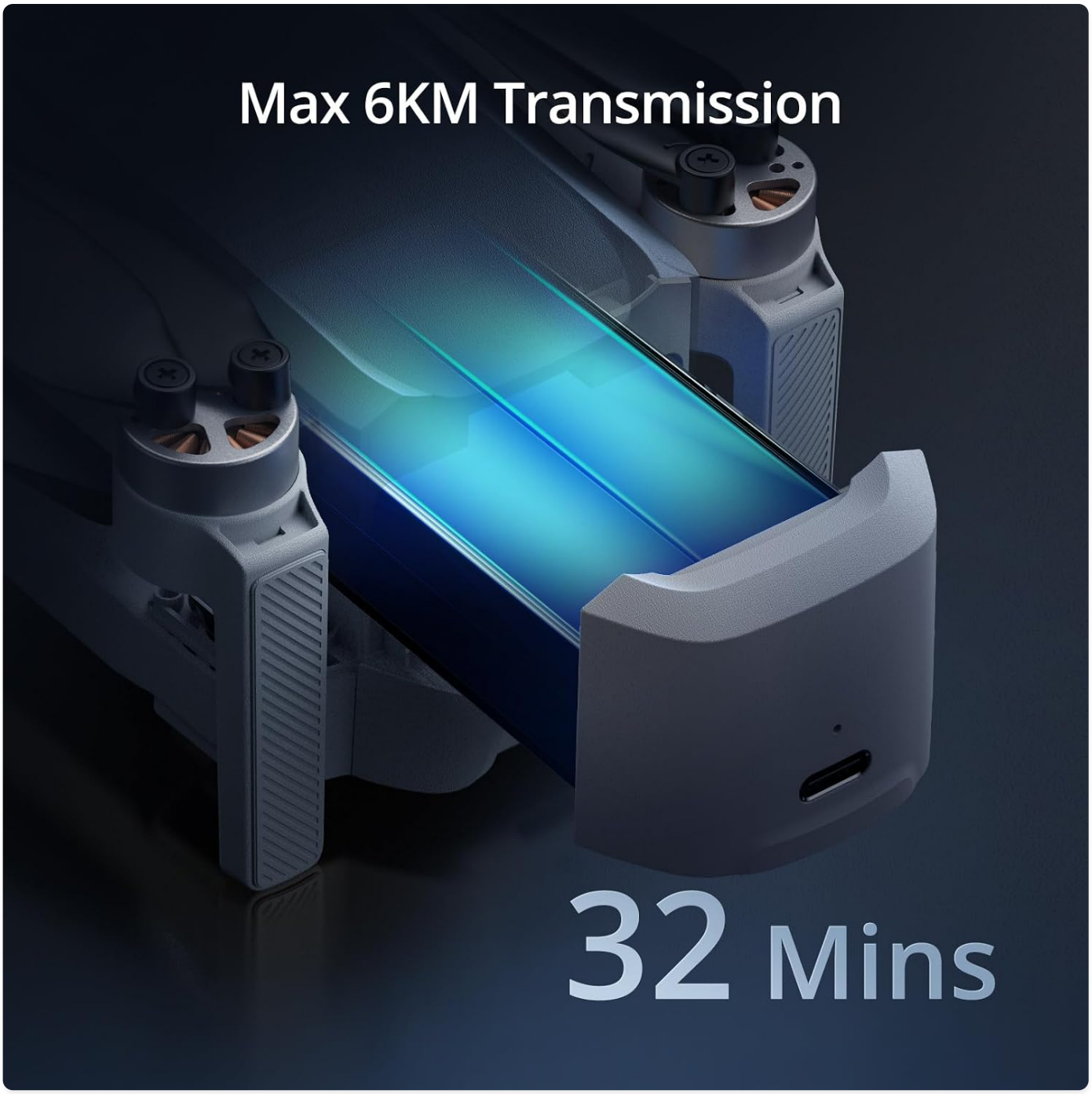


Image: A close-up of the Potensic ATOM drone's battery compartment, illustrating the 6KM transmission range and 32 minutes of flight time.

Wind Resistance

The ATOM drone is designed to maintain stability in moderate wind conditions.

- **Level 5 Wind Resistance:** The 3-axis brushless gimbal ensures smooth and steady footage even in Level-3 windy conditions.



Image: The Potensic ATOM drone flying near a coastline, indicating its Level 5 wind resistance capability.

Official Product Video

Your browser does not support the video tag.

Video: An official product video showcasing the Potensic ATOM 4K GPS Drone with its 3-axis gimbal, highlighting its features and flight capabilities.

Maintenance

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

- **Cleaning:** Regularly clean the drone body, propellers, and camera lens with a soft, dry cloth. Avoid using harsh chemicals.
- **Propeller Inspection:** Check propellers for cracks, bends, or wear before each flight. Replace damaged propellers immediately.
- **Firmware Updates:** Keep the drone's firmware updated via the Potensic app. Firmware updates often include performance improvements and new features.

- **Storage:** Store the drone and batteries in a cool, dry place, away from direct sunlight and extreme temperatures.

Troubleshooting

Common issues and their solutions:

Problem	Possible Cause	Solution
Drone does not power on	Low battery; Incorrect battery insertion	Charge battery fully; Reinsert battery correctly
No video feed in app	Wi-Fi not connected; App error	Ensure Wi-Fi connection to drone; Restart app and drone
Unstable flight/Drifting	Weak GPS signal; Uncalibrated compass	Fly in open area with strong GPS; Perform compass calibration as per app instructions
Remote control not connecting	Low remote battery; Pairing issue	Charge remote; Re-pair remote with drone according to manual

Specifications

Detailed technical specifications for the Potensic ATOM drone:

- **Model Name:** ATOM
- **Brand:** Potensic
- **Item Weight:** 241 Grams (8.5 ounces)
- **Product Dimensions:** 11.81"L x 9.64"W x 2.28"H
- **Video Capture Resolution:** 4K @30fps; 4K @25fps; 4K @24fps; 2.7K @30fps; 2.7K @25fps; 2.7K @24fps; 1080P@60fps; 1080P@50fps; 1080P@30fps; 1080P@25fps; 1080P@24fps
- **Video Capture Format:** MP4
- **Optical Sensor Technology:** CMOS (SONY CMOS Sensor)
- **Battery Capacity:** 2230 Milliamp Hours (1 Lithium Polymer battery included)
- **Max Flight Time:** Up to 32 minutes (with one intelligent battery)
- **Maximum Range:** 6 Kilometers (Transmission)
- **Connectivity Technology:** Wi-Fi
- **Control Type:** Remote Control
- **Skill Level:** All
- **Material:** Plastic
- **Color:** White
- **Special Features:** 4K/30FPS QuickShots, 12MP Photo, 3-Axis Gimbal, Under 249g (No FAA or Remote ID Registration needed in some regions), Visual Tracking.
- **Release Date:** October 1, 2023

Warranty and Support

Potensic provides customer support and warranty services for its products.

- **Warranty Information:** Refer to the warranty card included in your package or visit the official Potensic website for detailed warranty terms and conditions.

- **Customer Support:** For technical assistance, troubleshooting, or service inquiries, please contact Potensic customer support through their official website or the contact information provided in the product packaging.
- **User Manual (PDF):** A digital version of the user manual is available for download:Download PDF User Manual

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Example: How do I reset this device or fix this error?

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