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Potensic ATOM

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

Model: ATOM

Introduction

This manual provides essential information for the safe and efficient operation of your Potensic ATOM 3-Axis Gimbal 4K GPS Drone. Please read it thoroughly before first use and retain it for future reference.

Product Overview

The Potensic ATOM is a lightweight, palm-sized 4K GPS drone designed for adults and beginners, offering stable aerial photography and advanced flight features.



Figure 1: Potensic ATOM Drone, remote control, and charging hub.

Key Features:

- **Lightweight Design:** Weighs less than 249g, eliminating the need for FAA or Remote ID registration in many regions.
- **Stable 4K Imaging:** Equipped with a SONY CMOS sensor and a 3-axis brushless gimbal for smooth, steady 4K/30FPS video and 12MP photos.
- **Extended Flight Time:** Up to 96 minutes of flight with three intelligent batteries (Fly More Combo).
- **Fast Charging:** Parallel charging hub supports 60W quick-charge for all three batteries in approximately 1.3 hours.
- **Enhanced Transmission:** Upgraded PixSync 3.0 technology provides strong anti-interference capabilities and a transmission range of up to 6KM (20,000 ft).
- **Intelligent Flight Modes:** Features Visual Tracking and QuickShots (Pull-Away, Rocket, Circle, Spiral, Boomerang) for creative aerial cinematography.
- **Beginner-Friendly:** Enhanced GPS capabilities and an Auto Return-to-Home feature ensure steady and safe flights.
- **Wind Resistance:** Capable of maintaining stable flight in Level-5 windy conditions.

Setup

1. Unboxing and Initial Inspection

Carefully unpack all components and verify against the packing list. Ensure no parts are damaged during transit. The Fly More Combo includes:

- Potensic ATOM Drone x 1
- Remote Control x 1
- 64GB Micro SD Card x 1
- Parallel Charging Hub x 1
- Intelligent Batteries x 3
- Elastic Strap of Propeller x 1
- Portable Handbag x 1
- Camera Protector x 1
- Adapter x 1
- Screwdriver x 1
- 8 Extra Pair of Propellers
- 16 Specific Screws of Propeller Blades
- Cable (Micro/Type C/Lightning)



Figure 2: Potensic ATOM Fly More Combo contents.

2. Battery Charging

Before first use, fully charge all intelligent batteries using the provided parallel charging hub and 60W quick-charge adapter. The charging process for three batteries simultaneously takes approximately 1.3 hours.



Figure 3: Intelligent batteries and parallel charging hub.

3. Remote Control Setup

The intuitive remote control is designed for easy and flexible drone operation. Ensure the remote control is also fully charged before use. Refer to the quick start guide for initial pairing instructions with the drone.

4. App Installation and FAA Registration

Download the official Potensic app from your device's app store. This app is essential for controlling the drone, accessing intelligent flight modes, and viewing real-time footage. For recreational use in the United States, it is recommended to register your drone on the FAA website and complete the TRUST course, as required for drones weighing less than 250 grams.

Operating Instructions

1. Pre-Flight Checklist

- Ensure drone and remote control batteries are fully charged.

- Check propellers for any damage and ensure they are securely attached.
- Verify the camera protector is removed before flight.
- Ensure the micro SD card is properly inserted if recording.
- Select an open, clear area for flight, away from obstacles, people, and restricted airspace.
- Check weather conditions; avoid flying in strong winds or rain. The ATOM drone can withstand Level-5 wind conditions, but calm conditions are always recommended for beginners.

2. Takeoff and Landing

Power on the drone and remote control. Connect your mobile device to the remote control and launch the Potensic app. Wait for GPS signal acquisition and drone calibration. Use the one-key takeoff/landing function for automated and safe operation.

3. Flight Modes

The ATOM drone offers three flight modes: Video, Normal, and Sport. Sport mode allows for speeds up to 16m/s, providing a more dynamic flight experience. Select the appropriate mode based on your flying skill and desired footage.

4. Camera Operation and Gimbal Stability

The 12MP camera with a SONY CMOS sensor records clear 4K/30FPS video. The 3-axis brushless gimbal ensures remarkably stable and smooth footage, even in challenging conditions. Control camera tilt and capture photos/videos directly from the remote control or the Potensic app.



Figure 4: 3-Axis Gimbal and 4K Camera.

5. Intelligent Features

Utilize the drone's intelligent features for enhanced flight and creative shots:

- **Visual Tracking:** The drone can accurately track a selected subject using its latest vision algorithm.
- **QuickShots:** Pre-programmed flight paths like Pull-Away, Rocket, Circle, Spiral, and Boomerang allow for cinematic video capture with ease.
- **High-precision GPS & Auto Return:** The drone's GPS capabilities ensure stable aerial shots and enable the Return-to-Home (RTH) feature. In case of low battery or lost signal, the drone will automatically return to its takeoff point. This feature can also be activated manually via the app.



Figure 5: Intelligent Flight Modes.

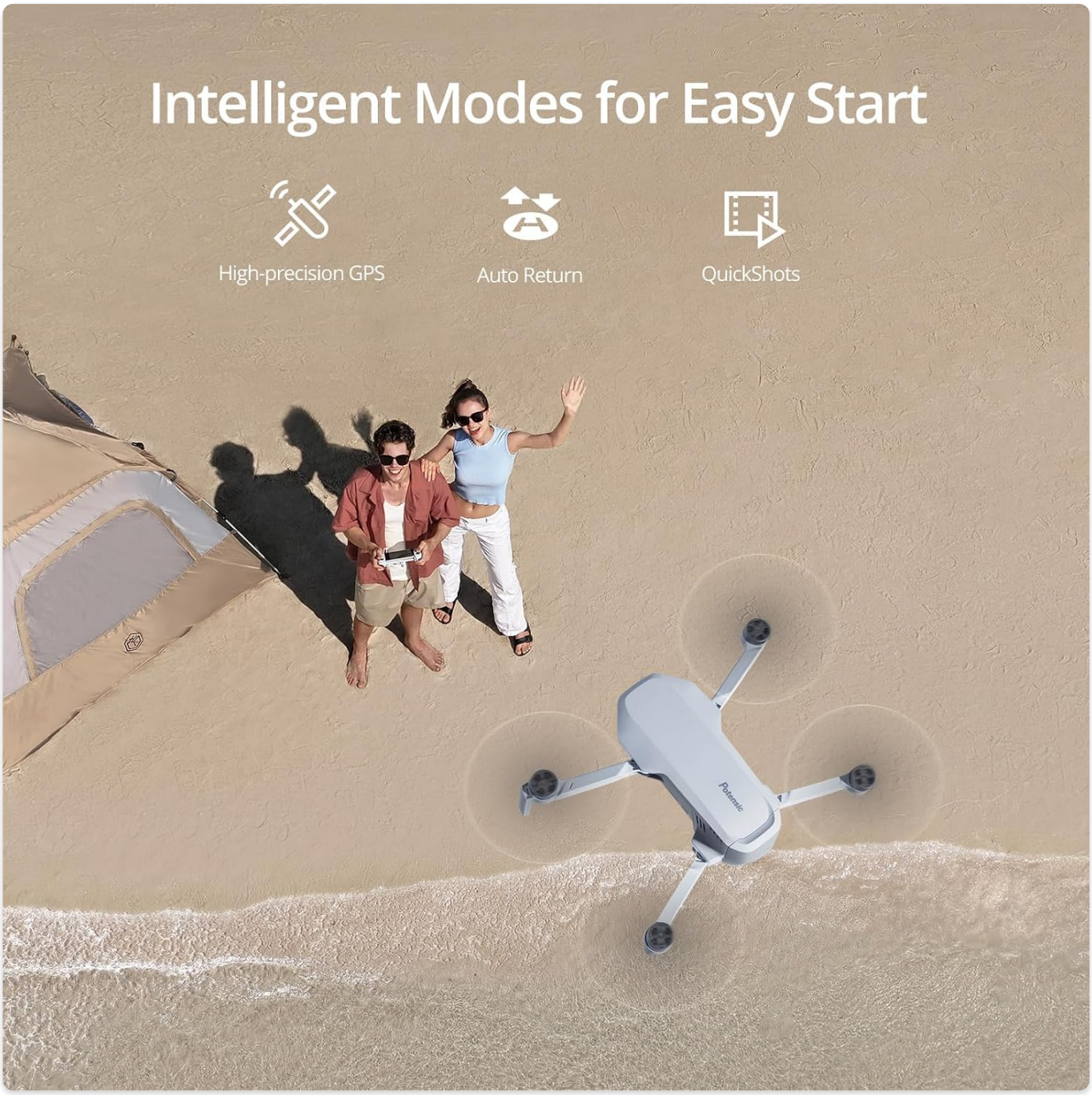


Figure 6: Accurate Visual Tracking in action.

Maintenance

1. Firmware Updates

The drone's firmware supports FOTA (Firmware Over-The-Air) updates. It is highly recommended to keep the firmware updated to the latest version to ensure optimal performance, access new features, and benefit from continuous improvements in flight experience and shooting quality.

2. Propeller Care

Regularly inspect the propellers for any signs of damage, such as cracks, bends, or chips. Damaged propellers can affect flight stability and safety. Replace them immediately using the provided extra pairs and screwdriver. Consider using propeller protection kits, especially if you are a beginner, to minimize damage from impacts.

3. Battery Storage and Charging

Store batteries in a cool, dry place away from direct sunlight and extreme temperatures. Do not fully discharge batteries

before storing them for extended periods. Always use the official charging hub and adapter. Batteries typically take a couple of hours to fully charge.

Troubleshooting

If you encounter issues with your Potensic ATOM drone, consider the following common troubleshooting steps:

- **Gimbal Drift/Malfunction:** If the gimbal does not stay in a neutral position or drifts, try recalibrating it through the Potensic app. Ensure the drone is on a flat, stable surface during calibration.
- **Loss of Signal/Return-to-Home Issues:** Ensure you are flying within the specified 6KM transmission range. Environmental factors like Wi-Fi and power lines can interfere with the signal. The drone's Auto Return-to-Home feature should activate in case of signal loss or low battery, bringing the drone back to its takeoff point.
- **Flight Instability:** Check for damaged propellers or debris in the motors. Ensure the drone is properly calibrated before each flight. Strong winds (above Level 5) can also affect stability.
- **App Connectivity Problems:** Ensure your mobile device's Wi-Fi is connected to the drone's network. Restart both the drone, remote control, and the app.

If problems persist, please contact Potensic customer support for assistance. Providing flight logs and video recordings can help expedite the troubleshooting process.

Specifications

Feature	Detail
Brand	Potensic
Model Number	ATOM
Product Dimensions	9.53 x 11.81 x 2.28 inches
Item Weight	8.8 ounces (under 249g)
Batteries	3 Lithium Polymer batteries (included)
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
Media Type	Micro SD Card
Connectivity Technology	Wi-Fi
Release Date	October 1, 2023

Warranty & Support

Potensic is committed to providing high-quality products and responsive customer service. For any product-related inquiries or support, please refer to the following resources:

- **User Manual (PDF):** A comprehensive PDF version of the user manual is available for download:Download User Manual
- **Protection Plans:** Extended protection plans are available for purchase to cover your investment:

- 2-Year Protection Plan: $36.99
- 3-Year Protection Plan: $48.99
- Complete Protect: $16.99/month (covers all eligible past and future purchases)

- **Potensic Brand Store:** Explore other Potensic products and accessories, and find additional support resources at the official brand store: Visit Potensic Store
- **Customer Service:** For direct assistance, please contact Potensic customer service. They are known for their friendly and responsive support.

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