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Potensic Potensic ATOM

Potensic ATOM 3-Axis Gimbal Drone User Manual

Model: Potensic ATOM

1. Introduction

The Potensic ATOM is a compact and lightweight drone equipped with a 3-axis gimbal and a 4K camera, designed for capturing high-quality aerial footage. Its foldable design makes it highly portable, and advanced features like Visual Tracking and QuickShots enhance the user experience. This manual provides essential information for safe operation, setup, maintenance, and troubleshooting of your Potensic ATOM drone.



Figure 1.1: Potensic ATOM Drone with its main components including the remote controller, charging hub, and two batteries.

2. Product Components

Before operating your drone, please ensure all components are present and in good condition.

- Potensic ATOM Drone (with pre-installed 3-axis gimbal and 4K camera)
- Remote Controller
- Intelligent Flight Batteries (2 included)
- 1.5h Fast Charging Hub
- USB-C Charging Cable
- Spare Propellers
- User Manual (this document)

3. Setup Guide

3.1 Charging Batteries

Fully charge the Intelligent Flight Batteries and the remote controller before first use. Use the provided 1.5h Fast Charging Hub for efficient charging.

1. Insert the Intelligent Flight Batteries into the charging slots of the Fast Charging Hub.
2. Connect the USB-C charging cable to the 'IN' port on the charging hub and to a compatible power adapter (not included, max

60W input recommended).

3. The LED indicators on the charging hub will show the charging status. All LEDs solid indicate a full charge.
4. To charge the remote controller, connect it directly to a power source using a USB-C cable.

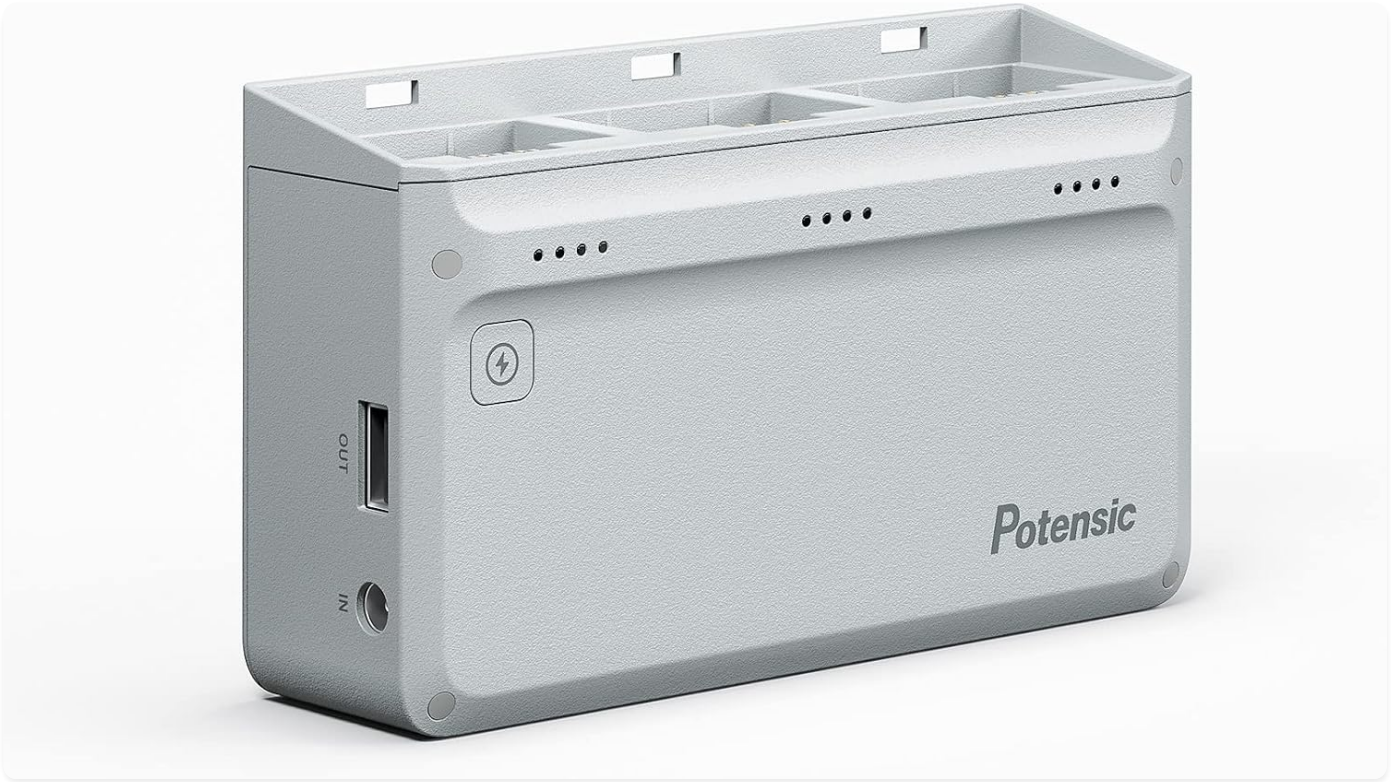


Figure 3.1: Top view of the Potensic ATOM Fast Charging Hub, showing battery slots and indicator lights.



Figure 3.2: Illustration of the charging process for both the drone batteries via the charging hub and the remote controller.

3.2 Installing Batteries and Propellers

- Insert the charged Intelligent Flight Battery into the battery compartment on the rear of the drone until it clicks securely into place.
- Unfold the drone arms. Ensure propellers are securely attached and free from damage. Replace any damaged propellers using the provided spares and tool.

3.3 Remote Controller and App Connection

- Download and install the official Potensic app on your smartphone.
- Mount your smartphone onto the remote controller's phone holder.
- Power on the remote controller, then power on the drone.
- Follow the in-app instructions to connect your smartphone to the remote controller and the drone.

4. Operating Instructions

4.1 Pre-Flight Checklist

- Ensure batteries for both drone and controller are fully charged.
- Check propellers for any damage or obstructions.
- Ensure the camera gimbal is free to move and not obstructed.
- Fly in an open area, away from people, buildings, and obstacles.
- Check local regulations for drone operation. The ATOM drone is under 249g and may not require FAA or Remote ID registration in some regions.



Figure 4.1: The Potensic ATOM drone's compact, foldable design allows it to be easily carried, weighing less than 249g.

4.2 Takeoff and Landing

- Place the drone on a flat, open surface.
- In the app, initiate automatic takeoff. The drone will ascend to a safe height and hover.

- To land, use the automatic landing function in the app, or manually descend slowly.

4.3 Flight Controls

Use the joysticks on the remote controller to maneuver the drone. Refer to the in-app tutorial for detailed control schemes.

- **Left Stick:** Controls altitude (up/down) and yaw (rotate left/right).
- **Right Stick:** Controls forward/backward and left/right movement.

4.4 Camera Operation and Intelligent Features

The ATOM drone features a 4K camera with a 3-axis gimbal for stable footage, even in windy conditions (Level 5 wind resistance).



Figure 4.2: Close-up view of the Potensic ATOM's 3-axis gimbal and 4K camera, highlighting its stability features.



Figure 4.3: The Potensic ATOM drone is designed to maintain stable flight and capture clear footage even in Level 5 windy conditions.

Utilize the Potensic app to access various intelligent flight modes and camera functions:

- **Visual Tracking:** The drone can accurately track a selected subject, keeping it in the frame.



Figure 4.4: The drone's accurate visual tracking feature, powered by the latest vision algorithm, keeps subjects centered in the frame.

- **QuickShots:** Pre-programmed flight paths for cinematic shots, including Pull-Away, Rocket, Circle, Spiral, and Boomerang.
- **High-precision GPS:** Ensures stable hovering and accurate positioning.
- **Auto Return:** The drone can automatically return to its takeoff point when the battery is low or connection is lost.

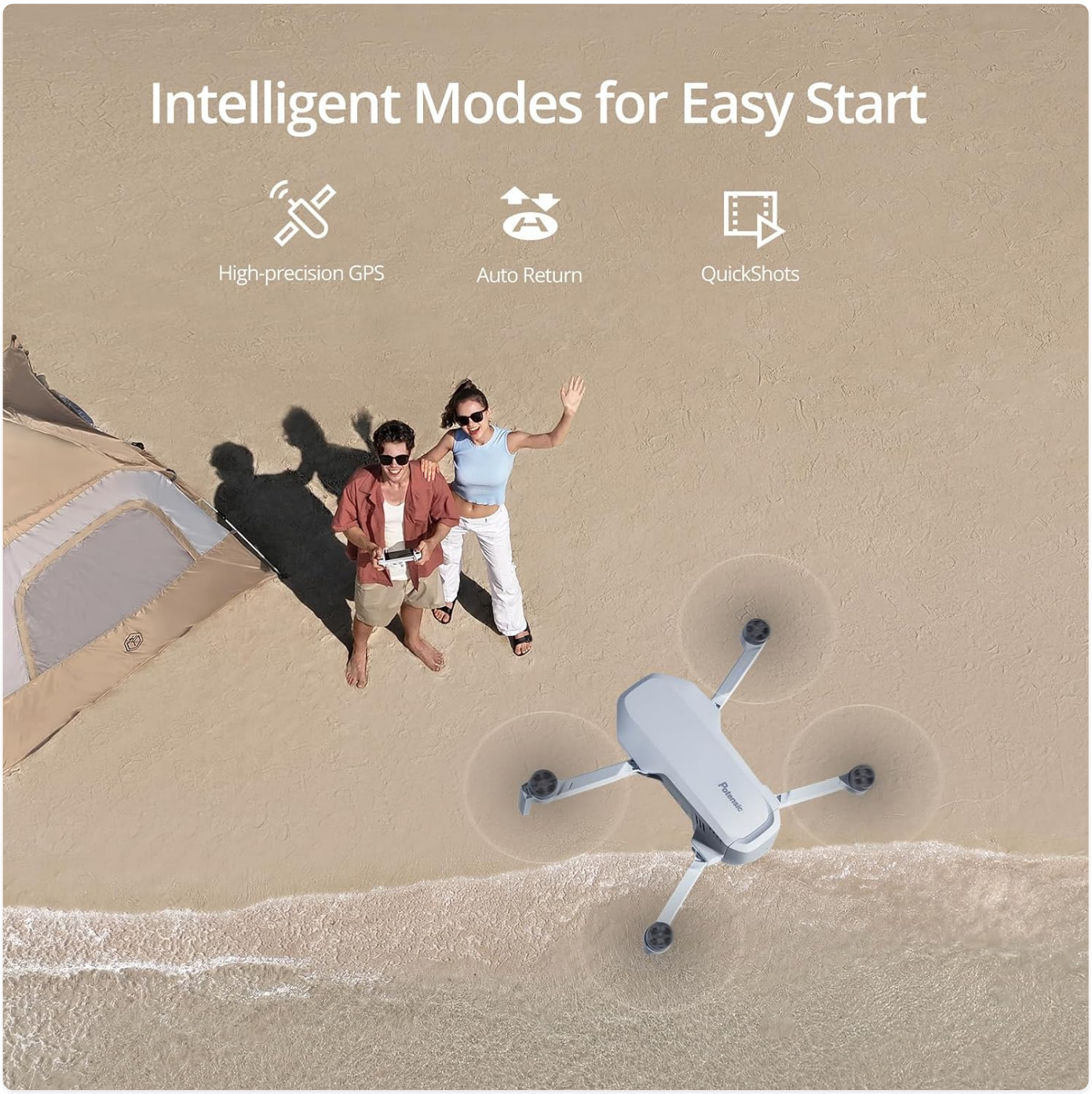


Figure 4.5: Icons representing the intelligent flight modes available: High-precision GPS, Auto Return, and QuickShots.

5. Maintenance

5.1 Battery Care

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

5.2 Cleaning and Storage

- Clean the drone and remote controller with a soft, dry cloth after each use.
- Ensure no dust or debris accumulates in the gimbal area or motor vents.
- Store the drone in its original packaging or a protective case to prevent damage.

6. Troubleshooting

Problem	Possible Cause	Solution
Drone does not power on	Low battery; Battery not properly inserted	Charge battery; Reinsert battery securely
No video feed in app	Poor connection; App issue	Ensure strong Wi-Fi connection; Restart app and drone
Drone drifts during flight	GPS signal weak; Compass calibration needed	Fly in open area; Perform compass calibration via app
Gimbal not stable	Obstruction; Gimbal calibration needed	Check for obstructions; Perform gimbal calibration via app

7. Specifications

Feature	Detail
Brand	Potensic
Model Name	Potensic ATOM
Video Capture Resolution	4K
Camera Sensor	SONY CMOS Sensor (12MP)
Gimbal	3-Axis Brushless Gimbal
Flight Time	Up to 64 minutes (with 2 batteries)
Charging Time	1.5 hours (Fast Charging Hub)
Weight	Less than 249g
Connectivity Technology	Bluetooth, PixSync 3.0
Max Transmission Range	Up to 6KM
Wind Resistance Level	Level 5
Control Type	Remote Control
Supported Image Format	JPEG
Video Capture Format	MP4
Battery Cell Composition	Lithium Ion

8. Warranty and Support

Potensic products typically come with a standard manufacturer's warranty. For specific warranty terms and conditions, please refer to the warranty card included in your product packaging or visit the official Potensic website. If you encounter any issues or require technical assistance, please contact Potensic customer support through their official channels. Keep your proof of purchase for warranty claims.

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