

Potensic ATOM 2

Potensic ATOM 2 Drone User Manual

Model: ATOM 2

INTRODUCTION

This manual provides comprehensive instructions for the safe and effective operation of your Potensic ATOM 2 drone. The ATOM 2 is a lightweight drone equipped with a 4K video camera, 8K photo capabilities, and a 3-axis gimbal for stable imagery. It features a 10KM transmission range and intelligent flight modes such as AI Track and AI Night Shot. The included PTD 1 remote controller features a built-in 5.5-inch display for an integrated flying experience. Weighing under 249g, the ATOM 2 typically does not require FAA or Remote ID registration.

SETUP

Package Contents

Verify that all components are present in your package:

- 1 x ATOM 2 Drone
- 1 x Remote Controller with Display (PTD 1)
- 1 x Intelligent Flight Battery (2330mAh)
- 1 x Gimbal Protector
- 8 x Spare Propellers (4 Pairs)
- 1 x Propeller Holder Strap
- 8 x Spare Screws
- 1 x Screwdriver
- 1 x USB-C Charging Cable

Drone and Controller Overview

Familiarize yourself with the drone and remote controller components.

Optional Long Lasting Kit

Fly More Combo
3 Batteries



Standard Kit
1 Battery



Image: Potensic ATOM 2 drone, PTD 1 remote controller, and included accessories.

Charging Batteries

Ensure both the drone's intelligent flight battery and the PTD 1 remote controller are fully charged before use. The drone battery provides up to 32 minutes of flight time. The PTD 1 RC supports 27W fast charging, reaching 90% charge in approximately 85 minutes.

Propeller Installation

Attach the propellers to the drone's motors using the provided screwdriver and spare screws. Ensure propellers are securely fastened and correctly oriented according to the markings on the drone and propellers.

App Installation

Download and install the 'Potensic Eve' application on your mobile device. This app is essential for accessing advanced flight features, camera settings, and firmware updates.

Regulatory Information

The Potensic ATOM 2 drone weighs under 249 grams. In many regions, this weight class exempts the drone from FAA and Remote ID registration requirements. Always check local regulations before flying.

OPERATING INSTRUCTIONS

Pre-Flight Checklist

- Ensure drone and controller batteries are fully charged.
- Check propellers for damage and ensure they are securely attached.
- Remove the gimbal protector before powering on the drone.
- Ensure a clear flight path and safe operating environment.
- Power on the remote controller, then the drone.

Takeoff and Landing

The ATOM 2 supports automatic takeoff and landing. Use the dedicated button on the remote controller or within the Potensic Eve app for these functions. For manual control, refer to the app's flight tutorial.

Flight Modes and Features

The ATOM 2 incorporates advanced flight assistance:

- **GNSS Positioning:** Provides precise location accuracy for stable hovering and flight.
- **Cruise Control:** Maintains a set speed and direction, allowing the pilot to focus on camera operation.
- **Smart Return-to-Home (RTH):** Automatically guides the drone back to its takeoff point when activated or in case of low battery/signal loss.

Camera Operation

The ATOM 2 is equipped with a high-performance camera system:

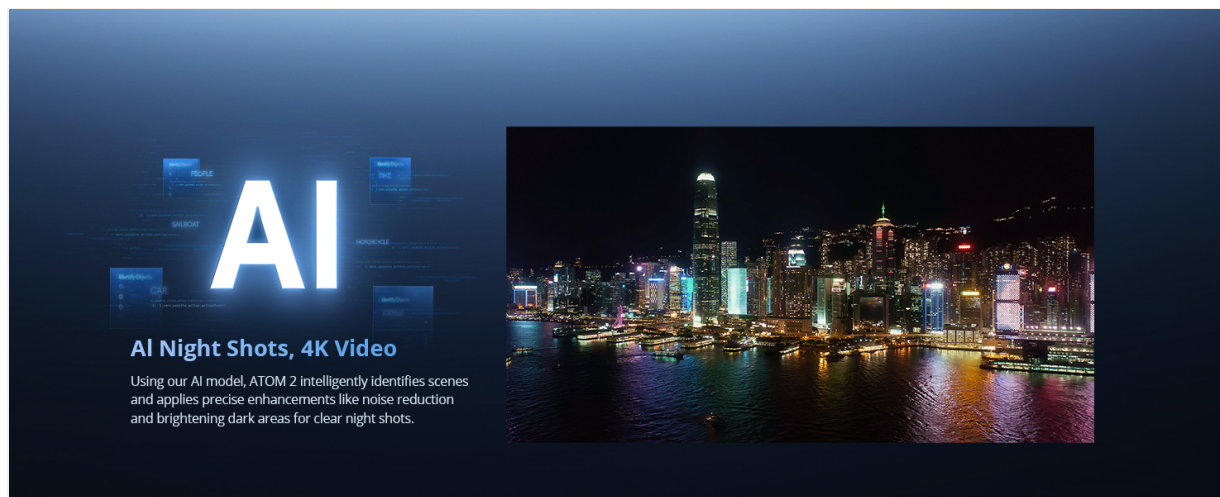


Image: The ATOM 2 camera module, highlighting 8K photo and 4K HDR video capabilities with a Sony CMOS sensor.

- **Sensor:** 1/2-inch Sony CMOS sensor for high-quality imaging.
- **Photo Resolution:** Captures 48MP (8K) still images.
- **Video Resolution:** Records 4K/30fps HDR stable videos.
- **Low-Light Performance:** F1.8 aperture and 4-in-1 pixels enhance performance in challenging lighting conditions.
- **P-Log Mode:** Provides a flat color profile for greater flexibility in post-production color grading.
- **AI Track:** Utilizes an AI model for object locking and tracking. Modes include Spotlight (keeps subject centered), Follow (tracks subject from behind), and Parallel (tracks subject alongside).



Image: The ATOM 2 drone demonstrating AI Track functionality, following a vehicle.

- **AI Night Shot:** Enhances night videography for crisp and clear results.
- **Vertical Shooting:** Optimizes footage for social media platforms.
- **Digital Zoom:** Offers 4x digital zoom, supported in 1080p 24/25/30fps video modes.
- **Panoramic Modes:** Capture expansive views with 180°, Wide Angle, and Sphere panoramic options.
- **Photo Modes:** Includes Burst Mode for capturing rapid sequences and Interval Timer Shooting for time-lapse photography.
- **Video Modes:** Features Dolly Zoom, Slow Motion, and QuickShots for cinematic effects.

Video Transmission

The ATOM 2 utilizes PixSync 4.0 technology for stable control and 1080p/30fps live video transmission up to 10 kilometers. The PTD 1 remote controller's 5.5-inch FHD touchscreen provides a bright 700-nit display for clear real-time viewing.



Image: The PTD 1 remote controller's 5.5-inch FHD display showing the drone's live view.

Official Product Videos

Video: Potensic Atom 2 Drone with RC PTD 1, Built-in 5.5" Display. This video demonstrates the features of the Potensic Atom 2 drone and its integrated remote controller with a 5.5-inch display.

Video: Enjoy the various video mode with Potensic ATOM 2. This video showcases the different video modes available on the Potensic ATOM 2 drone, including cinematic QuickShots.

MAINTENANCE

Battery Care

To prolong battery life, store intelligent flight batteries at approximately 50-60% charge when not in use for extended periods. Avoid fully discharging or overcharging batteries. If batteries are not used for a long time, they may gradually lose charge; it is recommended to check and recharge them periodically.

Propeller Replacement

Regularly inspect propellers for cracks, bends, or other damage. Replace damaged propellers immediately using the provided spare propellers and screwdriver. Ensure correct propeller orientation for optimal flight performance.

Gimbal Protection

Always attach the gimbal protector when the drone is not in use or during transport to prevent damage to the camera and gimbal mechanism.

Cleaning

Use a soft, dry cloth to clean the drone's body and camera lens. Avoid using harsh chemicals or abrasive materials that could damage the surfaces.

TROUBLESHOOTING

Common Issues and Solutions

Issue	Possible Cause	Solution
Drone does not power on.	Low or depleted battery.	Charge the intelligent flight battery fully.
Loss of connection during flight.	Interference, drone out of range, or low controller battery.	Fly within recommended range, avoid areas with strong interference, ensure controller is charged. Activate Smart RTH.
Gimbal or camera issues.	Gimbal protector still attached, physical damage, or software glitch.	Remove gimbal protector. Inspect for damage. Restart drone and controller. Check for firmware updates.
App functionality issues or display anomalies.	Outdated app version, software bug, or incompatible device.	Update the 'Potensic Eve' app to the latest version. Restart the app and your mobile device.
Rapid battery discharge during storage.	Batteries stored fully charged or fully depleted.	Store batteries at 50-60% charge. Recharge periodically if stored for long durations.
SD card difficult to remove.	Battery retaining clip obstructing access.	Ensure the battery is properly seated or removed to allow full access to the SD card slot.
Unintended controller power-off.	Accidental press of the power button.	Be mindful of hand placement. The controller typically requires a short press followed by a long press to power off.

For persistent issues, refer to the in-app diagnostics or contact Potensic customer support.

SPECIFICATIONS

Feature	Detail
Brand	Potensic

Feature	Detail
Model Name	DSDR23A (ATOM 2)
Weight	245 Grams
Dimensions (L x W x H)	5.6" x 3.5" x 2.28" (Folded)
Camera Sensor	1/2" Sony CMOS
Effective Still Resolution	48 MP (8K Photo)
Video Capture Resolution	4K/30fps HDR
Video Format	MP4
Battery Capacity	2330 mAh (Intelligent Flight Battery)
Max Flight Time	32 Minutes (per battery)
Max Transmission Range	10 Kilometers
Control Type	Remote Control (PTD 1 with 5.5" Display)
Connectivity Technology	Wi-Fi, Radio Frequency (PixSync 4.0)
Included Components	Drone, RC with Display, Battery, Gimbal Protector, Spare Propellers, Propeller Holder Strap, Screws, Screwdriver, USB-C Cable

WARRANTY AND SUPPORT

Potensic Care Service

Potensic offers an optional 'Potensic Care' service for comprehensive accident coverage, including repair or replacement services for your ATOM 2 drone. This service is sold separately and can be accessed through the Potensic Eve app.

Customer Support

For technical assistance, troubleshooting, or general inquiries, please contact Potensic customer support:

- **Phone:** +1 833 549 7772 (English only)
- **Phone Hours:** Saturday-Monday 7 AM - 10 PM (EST), Tuesday 9 AM - 6 PM (EST)
- **Email:** Support@potensic.com
- **In-App Chat:** Instant support and assistance are available through the Potensic Eve app.



50+

Spread in 50 countries
and regions worldwide



5,000,000+

Over 5 million users
around the world



20+

Owns 20+ licensed
patents

Image: Potensic customer support contact details.