

## Potensic ATOM 2

# Potensic ATOM 2 Drone User Manual

Model: ATOM 2

## 1. INTRODUCTION

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This manual provides essential information for operating your Potensic ATOM 2 drone. Please read it thoroughly before first use to ensure safe and proper operation. Keep this manual for future reference.

### 1.1 Safety Guidelines

- Always operate the drone in open areas, away from people, animals, and obstacles.
- Maintain a safe distance from power lines, buildings, and other structures.
- Do not fly in adverse weather conditions such as strong winds, rain, or snow.
- Ensure the drone's battery and remote controller are fully charged before each flight.
- Familiarize yourself with local drone regulations and obtain any necessary permits or registrations. The ATOM 2, being under 249g, typically does not require FAA or Remote ID registration in many regions, but always verify local laws.
- Perform a pre-flight check before every flight.



Image: Operating the Potensic ATOM 2 drone in an open environment.

## 2. PACKAGE CONTENTS

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Verify that all items are present in your Potensic ATOM 2 Fly More Combo package:

- Potensic ATOM 2 Drone
- Remote Controller
- Intelligent Flight Batteries (multiple, typically 3 for Fly More Combo)
- Battery Charging Hub
- Propeller Guards (360° protection)
- Spare Propellers
- USB-C Charging Cable
- RC Cables (Lightning, USB-C, Micro-USB)
- Screwdriver

- Carrying Bag
- User Manual (this document)



Image: Contents of the Potensic ATOM 2 Fly More Combo package.

## 3. PRODUCT OVERVIEW

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### 3.1 Drone Components

The Potensic ATOM 2 drone features a compact, foldable design with a 3-axis gimbal for stable camera operation. Key components include:

- **Foldable Arms:** For portability.
- **Propellers:** Four sets for flight.
- **Motors:** Power the propellers.
- **3-Axis Gimbal:** Stabilizes the camera for smooth video and sharp photos.
- **8K Camera:** Equipped with a 1/2" Sony CMOS sensor for high-resolution imaging.

- **Vision Positioning System (VPS):** Assists with stable hovering indoors or in areas with weak GPS.
- **Intelligent Flight Battery:** Powers the drone.

### 3.2 Remote Controller

The remote controller provides precise control over the drone's flight and camera functions. It features a directional antenna for enhanced signal stability and range.

### 3.3 Dimensions

The drone's dimensions with propeller guards installed are approximately:

- Length: 13.3 inches
- Width: 11 inches
- Height: 3.1 inches

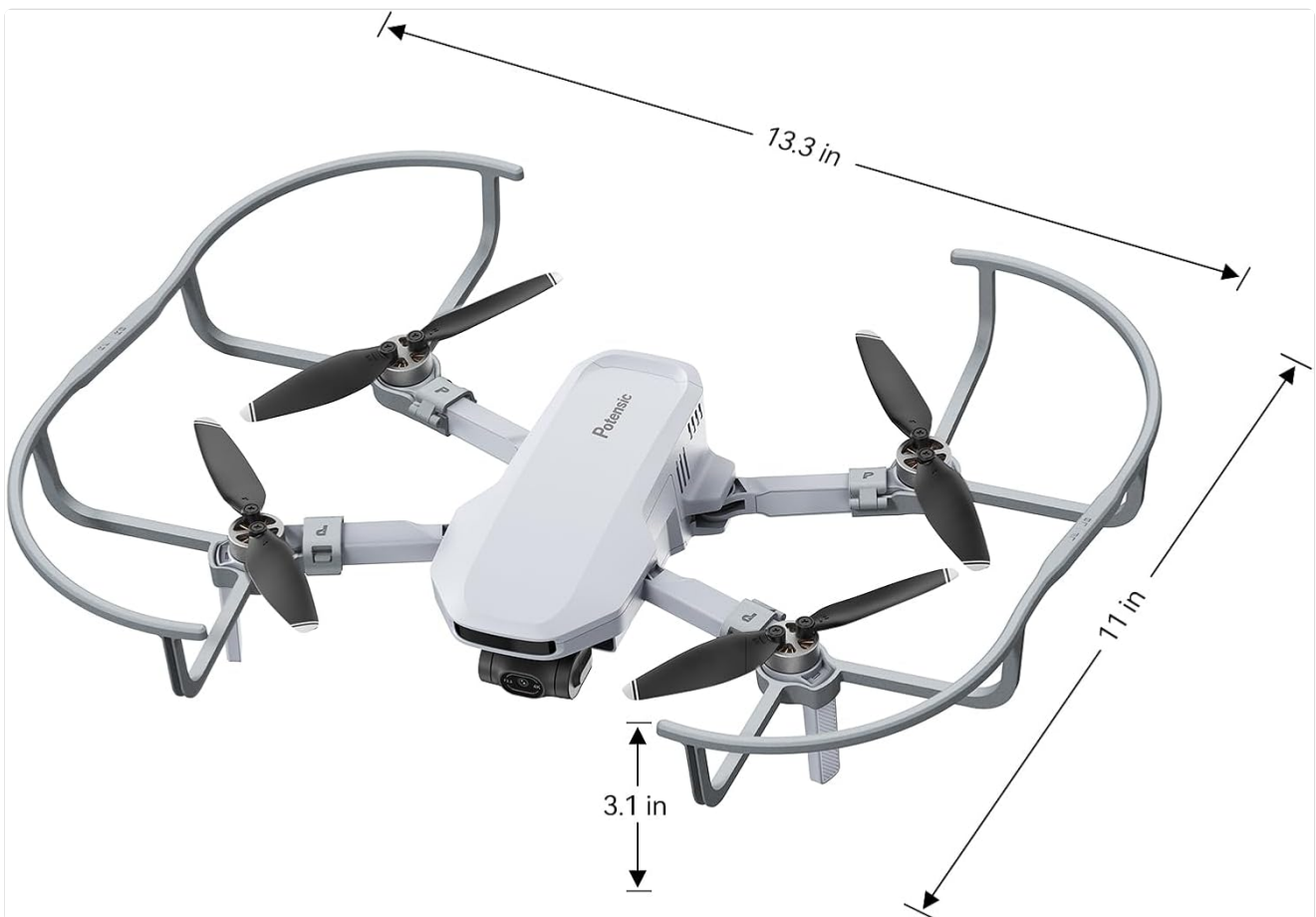


Image: Potensic ATOM 2 drone with propeller guards and dimensions.

## 4. SETUP

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### 4.1 Charging Batteries

1. Connect the USB-C charging cable to the battery charging hub and a power adapter (not included).
2. Insert the intelligent flight batteries into the charging hub.
3. Charge the remote controller using its dedicated USB-C port.
4. Ensure all batteries are fully charged before flight.

### 4.2 Propeller Installation

Attach propellers according to the markings on the propellers and motor arms. Ensure correct propeller types (clockwise and counter-clockwise) are matched to the corresponding motors. Use the provided screwdriver to secure them firmly.

### 4.3 Propeller Guard Installation

The 360° propeller guards can be installed for added protection, especially for indoor flight or learning. Carefully attach the guards to the drone's arms as shown in the diagram.



Image: Potensic ATOM 2 drone with propeller guards installed.

#### Important Notes on Propeller Guards:

# Note:



A set of propeller guards weighs **30 g**. Using the propeller guards will increase the drone's **takeoff weight** to **over 250 g**. Ensure compliance with **local laws and regulations**.



**Flight time** will **decrease** depending on the model due to the added weight. Please pay close attention to **app prompts** during flight.



**Stability** and **wind resistance** may be **affected**. Avoid flying the drone above **2000 m** or in **windy conditions**.



The drone can **only** operate in **Beginner Mode** when propeller guards are installed.

Image: Important notes regarding propeller guard usage.

- A set of propeller guards weighs approximately 30g. Using them will increase the drone's takeoff weight to over 250g. Ensure compliance with local laws and regulations regarding drone weight.
- Flight time will decrease due to the added weight. Pay close attention to app prompts during flight.
- Stability and wind resistance may be affected. Avoid flying the drone above 2000m or in windy conditions with guards installed.
- The drone can only operate in Beginner Mode when propeller guards are installed.

## 4.4 App Installation

Download and install the 'PotensicPro' app from your device's app store. This app is required for full control, live video feed, and access to intelligent flight features.

## 4.5 Remote Controller Setup

1. Unfold the remote controller's phone holder and antenna.
2. Insert your smartphone into the holder.
3. Connect your smartphone to the remote controller using the appropriate RC cable.
4. Power on the remote controller, then the drone.

5. Open the PotensicPro app and follow the on-screen instructions to connect to the drone.

## 5. OPERATING

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### 5.1 Pre-Flight Checklist

- Ensure drone and remote controller batteries are fully charged.
- Check propellers for damage and ensure they are securely attached.
- Verify that the gimbal protector is removed.
- Confirm sufficient GPS signal (at least 7-8 satellites) before outdoor flight.
- Check for any warnings or errors in the PotensicPro app.

### 5.2 Takeoff and Landing

After completing the pre-flight checklist and ensuring a stable GPS signal, use the one-key takeoff/landing button in the app or on the remote controller, or perform a manual stick combination for takeoff. For landing, use the one-key landing function or gently descend manually.

### 5.3 Flight Modes

The ATOM 2 offers various flight modes to enhance your flying experience:

- **Normal Mode:** Standard flight with balanced speed and responsiveness.
- **Sport Mode:** Increased speed and agility for dynamic flight.
- **Beginner Mode:** Reduced speed and limited range, automatically engaged when propeller guards are installed.

### 5.4 Camera Operation

The ATOM 2 is equipped with an 8K camera capable of capturing 26MP photos and 4K HDR videos at 30fps. The 3-axis gimbal ensures stable footage. The F1.8 aperture and 4-in-1 pixels improve low-light performance.

#### Vertical Shooting

The camera supports vertical shooting, allowing you to capture content perfectly framed for social media platforms.

# Vertical Shooting

Perfectly Framed for Social Media

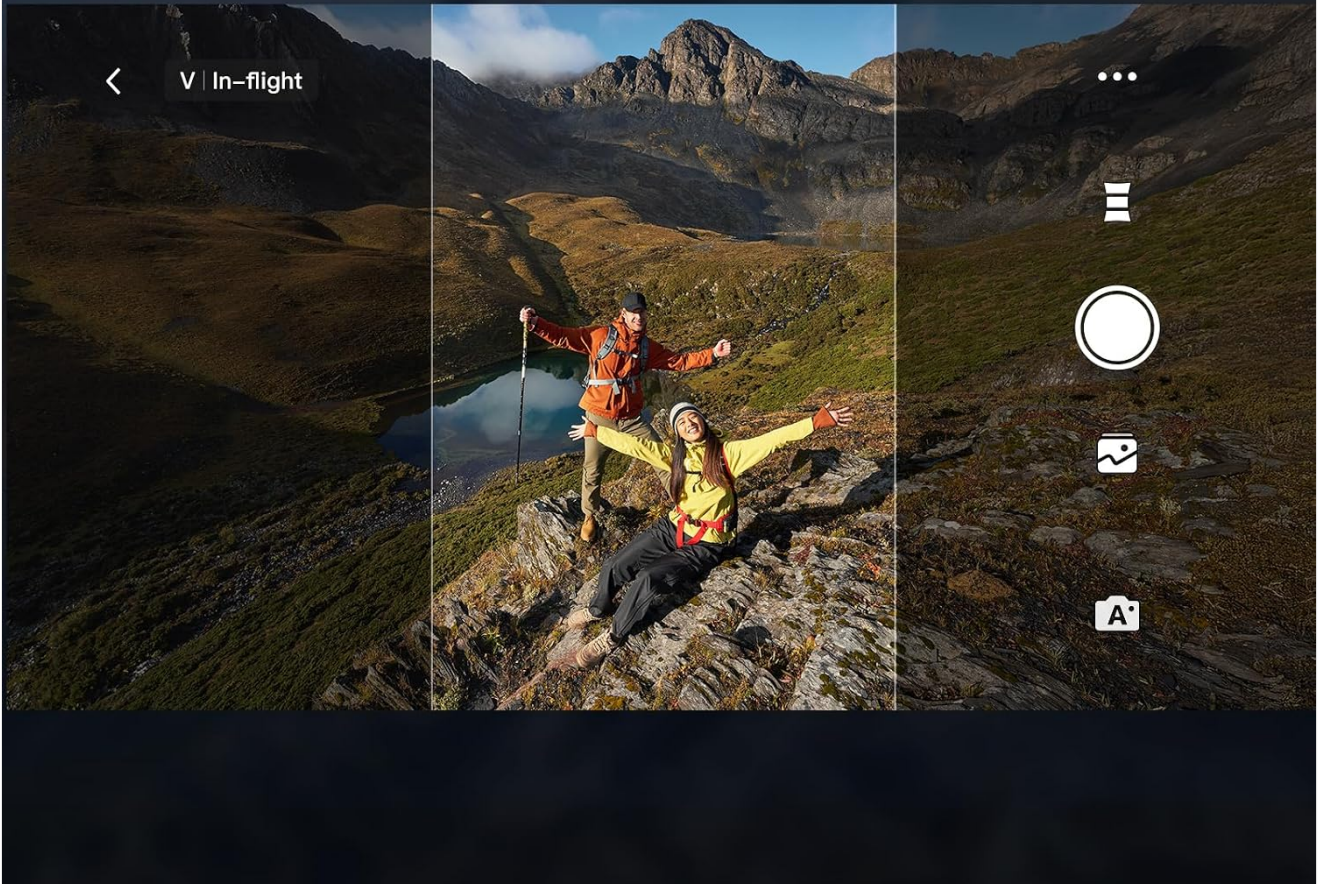


Image: Vertical shooting feature for social media content.

## 5.5 AI Tracking and Night Shot

Powered by an advanced AI model, the ATOM 2 offers intelligent tracking and enhanced night photography capabilities.

- **AI Track:** Frame your target in the app to activate tracking modes such as Spotlight, Follow, and Parallel. The drone will autonomously follow and keep the subject in frame with precision.
- **AI Stunning Night Shot:** Capture crisp and clear videos even in low-light conditions.

# AI Track

Follow with Precision and Flexibility



Image: AI Track feature in action, following a moving vehicle.

## 5.6 Transmission

The ATOM 2 utilizes PixSync 4.0 technology for robust anti-interference and a maximum transmission range of up to 10 km (32,808.4 feet). It provides a 1080p live view feed to your remote controller's connected device.

# MAX 10KM Transmission

PixSync 4.0 | 32,800 ft Connectivity | 1080p Live View



Image: Remote controller displaying 10KM transmission and 1080p live view.

## 6. MAINTENANCE

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### 6.1 Cleaning

- Wipe the drone body with a soft, dry cloth.
- Use a lens cleaning cloth for the camera and gimbal.
- Avoid using harsh chemicals or solvents.

### 6.2 Battery Care and Storage

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

### 6.3 Propeller Inspection

Regularly inspect propellers for cracks, bends, or other damage. Replace damaged propellers immediately to ensure safe flight.

## 7. TROUBLESHOOTING

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If you encounter issues with your Potensic ATOM 2 drone, refer to the following common solutions:

Problem	Possible Solution
Drone does not power on	Ensure battery is fully charged and correctly inserted. Press the power button briefly, then press and hold for 2 seconds.
No connection to remote controller/app	Ensure both drone and remote are powered on. Restart the app. Re-pair the remote controller with the drone as per app instructions. Check for interference.
Poor video/photo quality	Clean the camera lens. Ensure sufficient lighting. Check gimbal calibration. Fly in stable conditions.
Drone drifts during flight	Calibrate the compass and IMU in the app. Ensure strong GPS signal outdoors. Avoid flying in strong winds.
Propeller guards affect flight	This is expected. Propeller guards increase weight and reduce aerodynamic efficiency. The drone will operate in Beginner Mode.

For more detailed troubleshooting or persistent issues, please contact Potensic customer support.

## 8. SPECIFICATIONS

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Feature	Detail
Model Name	ATOM 2
Weight	Under 249g (without propeller guards)
Camera Sensor	1/2" Sony CMOS
Photo Resolution	26MP (8K Photo)
Video Resolution	4K HDR @ 30fps
Gimbal	3-Axis Mechanical Gimbal
Max Transmission Range	10 km (32,808.4 feet)
Connectivity Technology	PixSync 4.0, RF
Live View Quality	1080p
Special Features	AI Track, AI Stunning Night Shot, Vertical Shooting, GPS Positioning
Material	Plastic

Feature	Detail
Included Components	Drone, Remote Control, Propeller Guard, Batteries, Charging Hub, Cables, Spare Propellers, Screwdriver, Carrying Bag

## 9. WARRANTY AND SUPPORT

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Potensic products come with a standard warranty. For specific warranty terms, registration, or technical support, please refer to the official Potensic website or contact their customer service directly. Keep your proof of purchase for warranty claims.

**Potensic Customer Support:** Refer to the contact information provided on the product packaging or the official Potensic website.