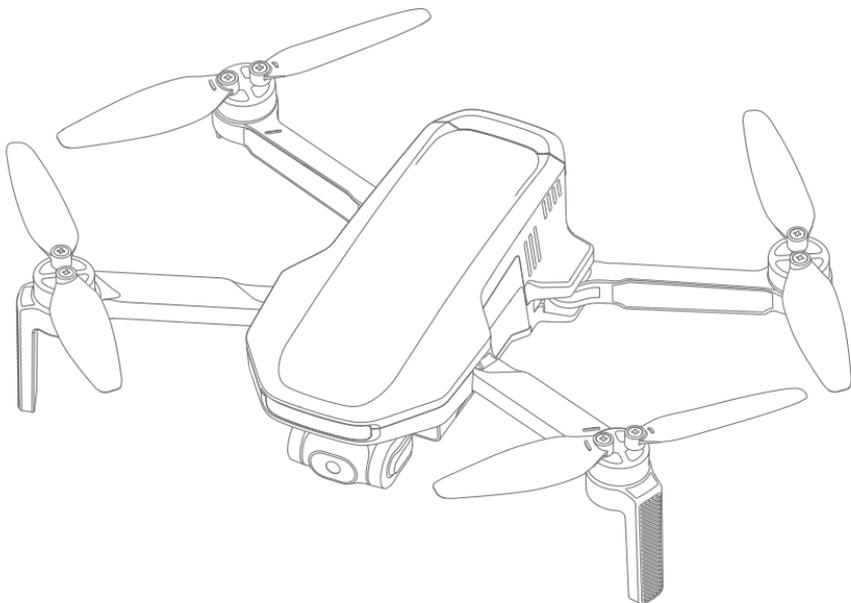


Potensic ATOM



PERIGO

Only suitable
for ages 16+



User Manual

V08. 25. 07

Email: support@potensic.com
Email: support.uk@potensic.com
Email: support.de@potensic.com

Email: support.fr@potensic.com
Email: support.it@potensic.com
Email: support.es@potensic.com

Email: support.jp@potensic.com
Web: <https://www.potensic.com>
FB: www.facebook.com/Potensic



Contents

1. Disclaimer & Precautions	02	6. PotensicPro App	20
1.1 Disclaimer	02	6.1 App Homepage	20
1.2 Safety & Precautions	02	6.2 Flight Interface	21
1.3 Warning & Prompts	02		
2. Reading Tips	03	7. Flight	26
2.1 Legend	03	7.1 Requirements of Flight Environment	26
2.2 Suggestions of Use	03	7.2 Pre-flight Checklist	26
2.3 Tutorial Video/Download App	03	7.3 Connection	27
2.4 Registration & Help	03	7.4 Flight Mode	27
2.5 Technical Terms	04	7.5 Beginner Mode	27
		7.6 Takeoff/Landing/Hovering	28
3. Overview	04	7.7 Intelligent Flight Modes	29
3.1 Introduction	04	7.8 Return (RTH)	33
3.2 Drone Diagram	05	7.9 Emergency Propeller Stop Mid-Flight	35
3.3 Remote Controller Diagram	06		
3.4 Preparing the Drone	07	8. Calibration	36
3.5 Preparing the Remote Controller	07	8.1 Compass Calibration	36
3.6 Charging/Startup and Shutdown	08	8.2 Gimbal Calibration	37
		8.3 Gimbal Fine-Tuning	37
4. Drone	09	8.4 Remote Controller Calibration	38
4.1 Positioning	09	8.5 Drone Re-pairing	39
4.2 Downward Vision System	09		
4.3 Drone Status Indicator	10	9. Appendix	40
4.4 Smart Battery	11	9.1 Specification & Parameters	40
4.5 Propellers	13	9.2 Post-Flight Checklist	42
4.6 Flight Data	14	9.3 Maintenance Instructions	42
4.7 Gimbal and Camera	14	9.4 Troubleshooting Procedures	42
		9.5 Risk and Warnings	43
5. Remote Controller	16	9.6 Disposal	43
5.1 Overview	16	9.7 CO Certification	43
5.2 Control Stick Mode	16	9.8 EU Compliance Notice	44
5.3 Function	17		
5.4 Antenna Angle	19		

1. Disclaimer & Precautions

» 1.1 Disclaimer

Drones are products with potential dangers and relatively complex operations. Prior to usage, it is crucial to thoroughly read the complete User Manual to grasp basic knowledge and become familiar with the drone's functions. For the initial use of ATOM, it is recommended to operate it in GPS mode in a spacious outdoor area to acquaint yourself with its functions.

Strictly adhere to the Manual's operational instructions and precautions to ensure safe and correct usage. Users below the age of 16 should be supervised by an adult, and the product should be kept out of reach of children.

The Company disclaims responsibility and does not provide warranty services for any direct or indirect losses (including property loss and personal injury) resulting from the user's failure to follow the Manual's safety guidelines.

Avoid dismantling any part of the product except for propellers or modifying it without official guidance; users will be accountable for any consequences arising from such violations.

For assistance with usage, operation, and maintenance issues, feel free to contact our local dealer or the Company.

Potensic reserves the final interpretation rights of this document and related product documents, and the information is subject to change without notice. For the latest updates, please visit <https://www.potensic.com>.

» 1.2 Safety & Precautions

Keep away from obstacles and crowds

To ensure the safety of both the user and those around, please keep the product away from crowded areas, high-rise buildings, and high-voltage cables. Additionally, refrain from using it in severe weather conditions such as strong winds, heavy rain, and thunderstorms. This precaution is necessary as the product may exhibit unpredictable flight speeds, status fluctuations, and potential hazards.

Keep off moisture

To prevent anomalies or damage caused by humidity affecting precise electronic components and mechanical parts inside the product, please ensure it is kept away from moisture.

Safe operation

When operating the drone, the likelihood of unforeseen risks rises when users are fatigued, in poor mental condition, or lack experience. To ensure safety, it is essential to refit or repair the product using original parts. Operate the product strictly within specified limits, and be sure to adhere to local safety regulations.

Keep away from high-speed revolving parts

While the product's propellers are spinning at a high speed, keep it away from crowds and animals to prevent scratches or disturbances. Avoid touching the spinning propellers with your hands.

Keep away from heat source

To prevent anomalies, deformation, and potential damage, keep the product away from heat and high-temperature exposure. This precaution is especially crucial as the product comprises metal, fiber, plastic, and electronic elements.

» 1.3 Warning & Prompts

01. Keep the package and manual in a secure place as they contain important information.
02. Users are responsible for ensuring that the use of this drone does not cause harm to the person or property of others.
03. Our company and dealers are not liable for losses and personal injuries resulting from improper use or operation.
04. Users must strictly follow the steps outlined in the user manual to install and test the drone. During flight, maintain a minimum distance of 1 to 2 meters from users or other individuals to prevent the drone from colliding with human bodies, causing injury.
05. The product should be assembled by an adult. Users aged below 16 should not handle the product alone. The battery should be charged under the supervision of an adult and should be kept away from flammable materials during the charging process.
06. The product contains small parts. Please place them out of reach of children to prevent accidental ingestion.

- Do not operate the product over roads or standing water to avoid accidents.
- It is forbidden to dismantle or refit the product, except for the propellers, as doing so may lead to malfunctions in the drone.
- Please recharge the intelligent battery with a USB charger that conforms to FCC/CE standards.
- The remote controller has a built-in 3.7V lithium battery which needs no replacement.
- Do not short-circuit or squeeze the battery to avoid explosion.
- Do not place the battery in hot place (in fire or near electric heater).
- Keep a safe distance from the high-speed revolving propellers; avoid using the product in crowds to prevent scratches or injuries.
- Do not use the product in places with strong magnetic field, such as near high-voltage cable, buildings that contain metals, automobiles and trains; otherwise, the connection stability can be compromised.
- Please make sure to thoroughly understand local laws and regulations to avoid any unauthorized use of the drone.
- To comply with the requirements of the aeronautical radio magnetic environment, during the period of radio control orders issued by the relevant national authorities within the specified regions, the use of remote controller should be suspended as instructed.
- Please refrain from flying at low altitudes over water surfaces.
- Please stay away from airports, flight paths, and other restricted areas.

2. Reading Tips

» 2.1 Legend

 **Prohibited**

 **Important**

 **Operation & use prompts**

 **Technical Terms and reference information**

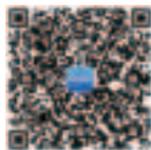
» 2.2 Suggestions of Use

- It is advisable to watch the tutorial video and **Quick Start Guide** before referring to the **Manual**.
- Be sure to read the **Disclaimer & Precautions** section first when consulting the **Manual**.

» 2.3 Tutorial Video/Download App

Scan the QR code on the right and you can:

- Download PotensicPro App (hereinafter referred to as "the App").
- Watch the tutorial videos.
- Access the latest User Manual.
- Learn about the frequently asked questions (FAQ).



» 2.4 Registration & Help

It's required to set up an account when using the App for the first time to have better user experience.

Registration Procedures

- Enter your email;
- Set your password;
- Check and agree with the Protocols;
- Register.

You can log into the App after registration.

Note: An Internet connection is required during the registration.

Help

Thanks for purchasing Potensic ATOM. Before using the drone for the first time, we recommend that you read the user manual carefully.

Please contact our support team at support@potensic.com if you encounter any problem or issue with the drone. Make sure to submit your order ID and the details of the issue.

» 2.5 Technical Terms

IMU	IMU (inertial measurement unit), the most important core sensor of the drone.
TOF (Time of Flight)	TOF (time of flight), the period from transmission and receiving of detection infrared signal, in order to determine the target distance.
Downward Vision System	The sensor system, which lies at the bottom of the drone and consists of camera and TOF module.
Vision Positioning	High-accuracy positioning, which is realized through Downward Vision System.
Compass	Geomagnetic sensor, which enables the drone to identify the direction.
Barometer	Atmospheric pressure sensor, which enables the drone to determine the altitude through atmospheric pressure.
Lock/unlock	Refers to the transition of the drone's motors from a stationary state to idle rotation.
Idling	Once unlocked, the motor will start spinning at a fixed speed, but it can't provide sufficient lifting force for the drone to take off.
Auto return	The drone will return to HOME point automatically based on GPS positioning.
Drone head	Position of the drone camera.
Throttle control stick	Ascend or descend the drone.
Pitch control stick	Fly the drone forward or backward.
Roll control stick	Fly the drone leftward or rightward.
Yaw control stick	Enables the drone to rotate clockwise or anticlockwise.

3. Overview

This chapter introduces the functional characteristics of ATOM, as well as the diagrams of the drone and the remote controller.

» 3.1 Introduction

ATOM features foldable arms for convenient portability, with a lightweight body weighing less than 250 g. The drone possesses a Vision Positioning System, which allows for precise hovering in low-altitude indoor and outdoor environments. Equipped with a GPS sensor, the drone enables positioning and automatic return. The camera utilizes a 1/3-inch Sony CMOS image sensor, capable of capturing high-definition 4K/30 fps video and 12 million pixels photos. The camera is mounted on a 3-axis gimbal, which allows the camera to acquire stable footages while operating the drone.

ATOM's remote controller utilizes the PixSync 3.0 2.4G digital transmission technology, achieving a maximum communication distance of up to 6 km and 720P video transmission in ideal conditions. The controller features a retractable and foldable design, providing a placement for your mobile device when unfolded. When connected to the controller via a USB cable, you can operate and configure your drone through the App, as well as view high-definition video transmission. The built-in lithium battery in the remote controller has a maximum working time of approximately 2.3 hours.

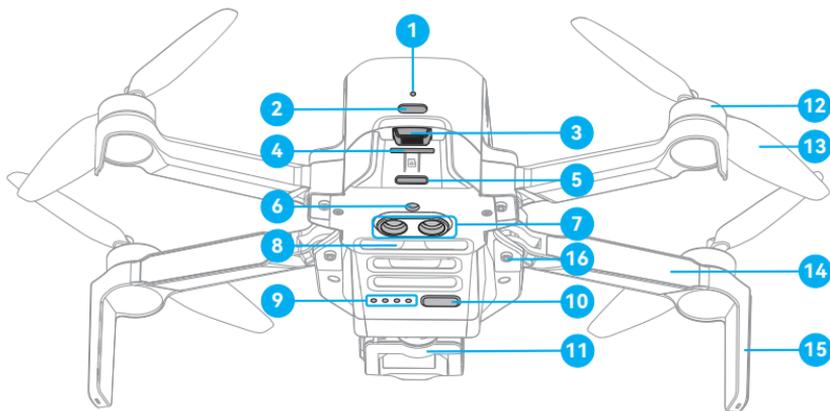
ATOM utilizes proprietary SurgeFly flight control technology, achieving a maximum flight speed of 16 m/s (52 ft/s) and a maximum flight time of approximately 32 minutes, with resistance against wind up to Level 5.

- ⚠️ • **Test conditions of the max. flight time:** Fly at an even speed of 5 m/s at 25°C and in breezeless condition.
- **Test conditions of the max. transmission distance:** Measured at an open and no-interference environment, with a flight height of 120 m, and without considering the return of the drone.
- **Power consumption will increase considerably when the drone is returning against the wind.** If you receive a prompt of encountering strong wind from the App, please make sure to lower the flight altitude and return in time to ensure safety of the drone.

Pre-Flight Checklist:

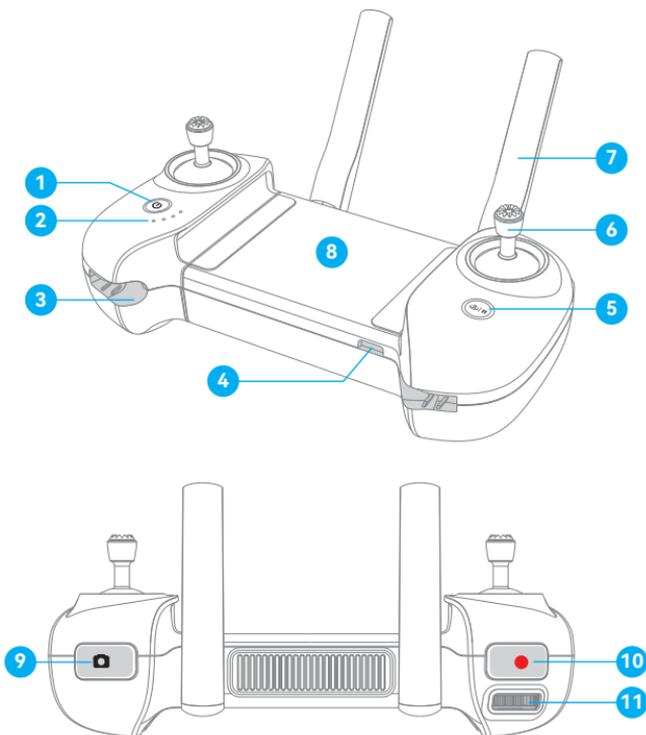
1. Pay attention to the local weather forecast and make sure it is suitable for flying the drone.
2. Make sure the battery is fully charged.
3. Make sure the firmware is updated to the latest version.
4. Make sure the flight environment is open and free of interference.
5. Before takeoff, make sure the battery is secured and the buckle pops out correctly, and no deformed propellers and loose screws.
6. Power on the drone on open and level ground, wait for the drone to enter GPS Mode before takeoff, and pay attention to the HOME point.

» 3.2 Drone Diagram



- | | |
|----------------------------|------------------------------|
| 1. Charging indicator | 9. Power indicator |
| 2. TYPE-C charging port | 10. Power/pairing button |
| 3. Battery buckle | 11. 3-axis gimbal and camera |
| 4. SD card slot | 12. Brushless motor |
| 5. Tail indicator | 13. Propeller |
| 6. Monocular visual module | 14. Arm |
| 7. TOF module | 15. Antenna tripod |
| 8. Bottom cooling hole | 16. Arm shaft |

» 3.3 Remote Controller Diagram



1. Power button

Long press for 2 s to power on/off.

2. Power indicator

Indicate the power level or other status of the remote controller.

3. Control stick slot

One slot respectively at the left and right side, which are used to store the sticks.

4. TYPE-C interface

To charge the remote controller/connect mobile device.

5. RTH / Pause button

Long press for 1 s to return to HOME point automatically.
Short press to pause auto flight.

6. Control stick

7. Foldable dual antennas

8. Placement for mobile device

To place mobile device.

9. Shoot button

Short press it to shoot one picture.

10. Record button

Short press to start/stop recording.

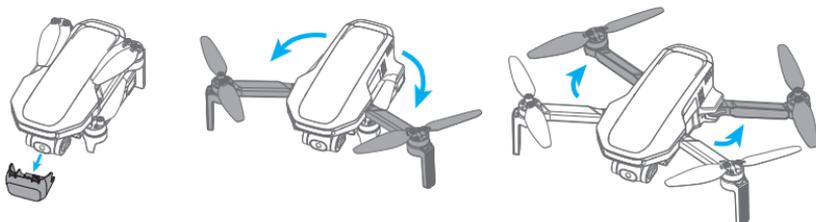
11. Gimbal dial

Use the gimbal dial to control the tilt of the camera.

» 3.4 Preparing the Drone

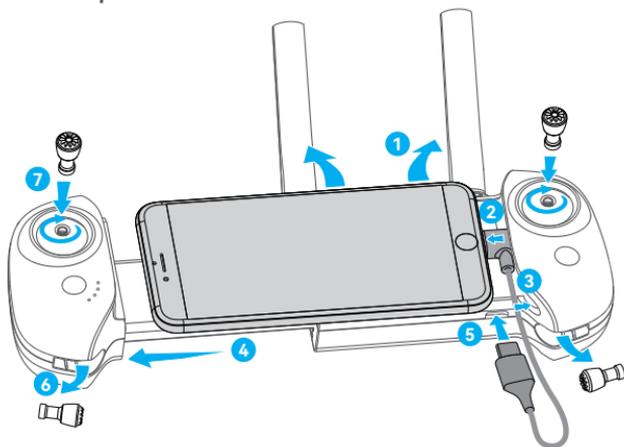
The product is delivered under folded status. Please unfold it as follows:

1. Remove the gimbal protector.
2. Unfold the front arm before the rear arm.
3. Unfold the propeller blades.

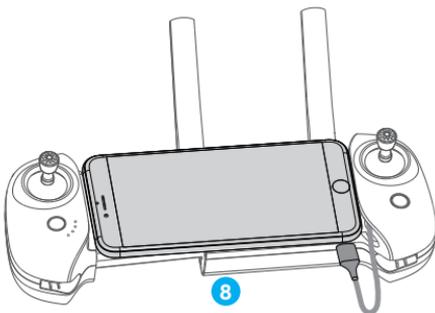


» 3.5 Preparing the Remote Controller

Installation of mobile phone and control stick

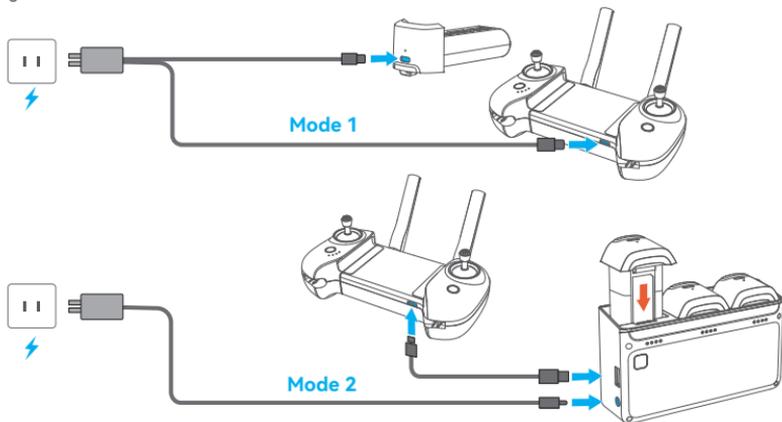


1. Unfold the antenna.
2. Connect your mobile phone to the USB cable.
3. Insert the part of your mobile phone with the USB cable into the slot of the remote controller.
4. Pull and open the remote controller with both hands and fix your mobile phone stably.
5. Connect the other end of the USB cable to the remote controller.
6. Take out the sticks.
7. Screw in both control sticks clockwise.
8. Installation completed.



» 3.6 Charging/Startup and Shutdown

Before the first flight, it is essential to wake up the battery; otherwise the drone wouldn't start. Connect the TYPE-C charging port of battery and a USB charger to the AC power supply to finish single charging (USB charger is not included in the package. User can use a charger that conforms to FCC/CE specification to charge the battery). The red indicator will stay on during charging, and turn off automatically after charging is done. User can charge the battery with the Parallel Charging HUB if Fly More Combo is purchased. For more details, please refer to Fly More Combo of Parallel Charging HUB. The Parallel Charging HUB can also charge the remote controller.



- The shortest charging period is approx. 1 h 25 min through the TYPE-C charging port. Make sure your charger supports 5 V/3 A output in order to achieve this charging speed.
- User is suggested to charge the battery through the Parallel Charging HUB, in order to charge 3 batteries quickly at the same time.
- It is suggested to remove the battery from the drone to charge for safety reasons; otherwise, the drone won't power on if the battery is being charged in the drone.
- If the charging cable is connected while the drone is on, it will power off automatically and the charging will continue.
- The battery may become too hot after use; do not charge it until it cools down; otherwise, charging can be rejected by the smart battery.
- Charge the battery every three months to sustain the cell's activity.
- Please connect the original cable or any cable that supports over 3 A current to the TYPE-C port; otherwise, it may cause charging failure or battery damage.

Startup

Drone: Make sure the battery is inserted in battery bin, short press and then long press the power button until all indicators are on, and then release the button to start up.

Remote controller: Long press the power button until all indicators are on, and then release the button to finish startup.

Shutdown

Drone: Short press and then long press the power button of the drone until all indicators are off, and then release the button to shut down.

Remote controller: Long press the power button until all indicators are off, and then release the button to shut down.

4. Drone

ATOM consists of a flight control system, a communication system, a positioning system, a power system and a smart battery. This chapter sets down the functions of all parts of the drone.

» 4.1 Positioning

ATOM adopts Potensic's new SurgeFly flight control technology, which supports the following two positioning modes:

GPS positioning: Provide precise positioning and navigation to the drone; support precise hovering, smart flight and auto return.

Vision positioning: It can realize high-precision positioning at a low altitude based on the Downward Vision System. The vision positioning can be realized without GPS signal, so that the product can be used indoors.

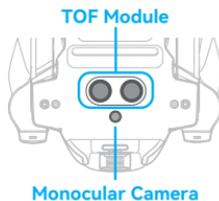
How to switch: The flight control system will switch automatically according to the environment of the drone. If both GPS and Downward Vision System fail, the flight control will be switched to attitude mode, under which, the drone fails to realize stable hovering and user needs to correct the flight gesture manually through the control stick.

The difficulty of drone handling will be increased greatly in Attitude Mode; make sure to master the behaviors and operation of the drone in this mode prior to use; avoid flying the drone over a long distance to avoid risks due to failed judgment of drone behaviors.

- ⚠️ • **In Vision Positioning (OPTI Mode), the Intelligent Flight Modes are not available, and the flight mode will be limited to Video Mode.**
- **When the GPS signal is weak or there is no GPS signal, you will not be able to return the drone and activate certain functions such as Waypoint Flight or QuickShots.**
- ⊘ • **The difficulty of controlling the drone will increase dramatically in ATTI Mode so make sure to master the operation of the drone in this mode. Always keep the drone within sight in order to avoid risks in case of failed judgment of the drone's attitude and direction.**

» 4.2 Downward Vision System

The ATOM is equipped with a downward vision system, it is located beneath the drone. The Downward Vision System consists of a monocular camera and a TOF module. The TOF module includes a transmitter tube and a receiver tube, it can precisely calculate the fly height above the ground by calculating the infrared signals transmission and receiving time. In combination with the monocular camera, the system can help achieve high-precision positioning at low altitudes.



Detection Fileds

The Downward Vision System works best when the drone is at an altitude of 0.3 to 5 m, and its operating range is 0.3 to 10 m.

When GPS is unavailable, the Downward Vision System will be activated if the drone is flying over discernible surfaces with sufficient light. The Downward Vision System works best when the drone is at an altitude of 0.3 to 5 m. When the altitude exceeds 5 m, the drone will enter ATTI Mode. Please fly with caution.

How to use

The Downward Vision System will be activated automatically if the positioning conditions are satisfied. The drone tail indicator blinks cyan twice, which indicates the Downward Vision System is working.

Speed limit: To ensure positioning accuracy and flight safety during vision positioning flight, the drone will actively limit its flight speed.



- In OPTI Mode, the maximum flight altitude is 5 m.
- Vision positioning is only an auxiliary flight function, please always pay attention to the changes in the flight environment and positioning mode, and do not rely too much on the automatic judgment of the aircraft. Users need to control the remote controller at all times and be prepared to operate the drone manually at any time.
- The Visual System cannot work properly when flying over the following surfaces:
 1. Pure-color surface.
 2. Surface with strong reflection, such as smooth metal surface.
 3. Transparent object surface, such as water surface and glass.
 4. The moving texture, such as running pets and moving vehicles.
 5. Scenarios with drastic change of light; For example, the drone flies to outdoor space with strong light from indoor space.
 6. Places with weak or strong light.
 7. The surface with highly repetitive texture, such as floor tile with the same texture and small size, and highly consistent strip pattern.
- For the sake of safety, please check the camera and TOF transceiver tube before the flight, and clean it with a soft cloth if there is any dirt, dust, or water on it; Contact Potensic Support if there is any damage to the Vision System.

» 4.3 Drone Status Indicator

Start-up/ Shut-down	Startup / Shutdown in progress: Green indicator is solid on			
Flight status	GPS positioning	Vision positioning	Attitude mode	Return
	Indicator flashes slowly in green	Indicator flashes slowly in cyan	Indicator flashes slowly in blue	Indicator flashes slowly in red
Warning & Error	Remote controller has no connection with the drone (disconnected)	Low battery	Sensor error	Emergency stop of propeller
	Indicator is in solid blue	Indicator flashes quickly in red	Indicator is in solid red	The indicator repeatedly briefly lights up in red and then remains off for an extended period.
Upgrade & calibration	Compass calibration (horizontal)	Compass calibration (vertical)	Frequency pairing mode	Upgrade mode
	Indicator alternately flashes between red and green	Indicator alternately flashes between blue and green	Indicator flashes quickly in green	Indicator flashes quickly in blue

» 4.4 Smart Battery

4.4.1 Function

ATOM's smart battery is equipped with high-energy cells and utilizes an advanced battery management system. Detailed information is as follows:

Basic Parameters			
Model: DSBT02B			
Cell Qty.	2 series	Battery Capacity	2230 mAh
Rated Voltage	7.7 V	Charge Completion Voltage	8.8 V
Charging Mode	TYPE-C/ Parallel Charging HUB	Max. Charge Current	TYPE-C: 5 V/3 A Parallel Charging HUB: 8 V/2.0 A x 3

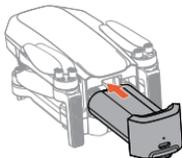
Function	Description
Balance protection	During charging, the voltages of the battery cells are automatically balanced.
Auto-discharging protection	After being fully charged, the battery will start to auto-discharge to 50% ~ 70% of the battery level when it's left idle for 5 days to protect the cells.
Overcharge protection	The battery stops charging automatically once fully charged.
Temperature protection	Charging will stop automatically if the temperature of the battery is below 0°C or above 40°C to prevent damage.
Auto-limit of charging current	The battery will restrict the charging current automatically if an excess current is detected to protect the cells.
Overdischarge protection	Discharging stops automatically to prevent excess discharge when the battery is not in flight use. The battery will enter Hibernation mode and it's recommended to charge the battery.
Short-circuit protection	The power supply will be automatically cut if a short-circuit is detected to protect the drone and the battery.
Battery health monitoring	The BMS will monitor the battery health, and prompt warnings if a damaged battery cell is detected so you can replace the battery in time.
Communication function	Information about charge cycles and remaining battery level is transmitted to the drone and you can view it in the App.

-  • If the battery is not used for a long time, it needs to be charged every three months to ensure its health.
- Please store the battery in a cool and dry place where children cannot reach.

4.4.2 Battery Installation & Removal

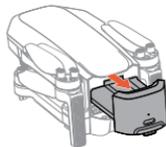
Installation:

Insert the battery in the battery compartment and secure the buckle. You will hear a clicking sound when the battery is fully engaged.

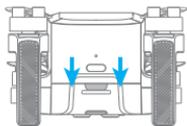


Removal:

Press the battery buckle and detach the battery from the battery compartment to remove it.



- ⚠ • After inserting the battery, please ensure that the battery buckle snaps back into place. This is crucial for flight safety.**



Make sure to power off the product before removing the battery.



Buckle is in position, safe



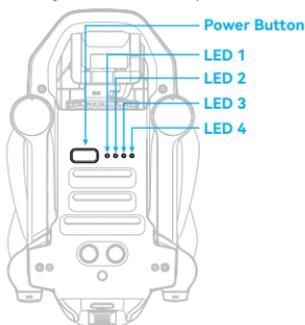
Buckle is not in position, which may result in the battery falling during flight.

4.4.3 Charging

See 3.6 for charging method

4.4.4 View Power Level

Once the battery is inserted in the drone, short press the power button to view the power level of smart battery, as shown in the picture below:



LED 1	LED 2	LED 3	LED 4	Current power level
☀	●	●	●	0% ~ 25%
☀	●	●	●	25% ~ 30%
☀	☀	●	●	30% ~ 50%
☀	☀	●	●	50% ~ 55%
☀	☀	☀	●	55% ~ 75%
☀	☀	☀	●	75% ~ 80%
☀	☀	☀	☀	80% ~ 97%
☀	☀	☀	☀	97% ~ 100%
☀	☀	☀	☀	97% ~ 100%

☀ Indicator is on ☀ Indicator is flashing ● Indicator is off

4.4.5 Operation Instructions of Smart Battery at High/Low Temperature

When the battery temperature is $< 5^{\circ}\text{C}$, the App will prompt a low temperature warning of the battery, and the battery needs to be preheated before flying.

When the battery temperature is $> 70^{\circ}\text{C}$, the App will prompt a high temperature warning of the battery, and the drone will not be able to fly.

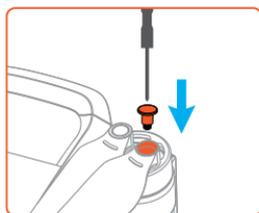
- ⚠ • The discharge capacity will be weakened greatly and flight duration will reduce at a low temperature, which is normal.**
- Avoid long-term running at a low temperature, otherwise, the battery life can be shortened.**

» 4.5 Propellers

There are two types of ATOM propellers, which are designed to spin in different directions. Marks are used to indicate which propellers should be attached to which motors, the two blades attached to one motor are the same.

	Propeller	Installation Instructions	Schematic Diagram of Installation
Marked propeller		Install the marked propeller blades on marked arm	
Unmarked propeller		Install the unmarked propeller blades on unmarked arm	

- Use the the screwdriver from the package to mount the propellers.
- When replacing the propeller blades, it is easier to handle by gripping the motor with your hand.



- ⚠ • Make sure you attach the marked propellers to the motors of the arm with marks and the unmarked propellers to the motors of the arm without marks. Otherwise the drone will be unable to fly.
- If a propeller is broken, remove the two propellers and screws on the corresponding motor and discard them. Use two propellers from the same package. DO NOT mix with propellers in other packages.
- Propeller blades are sharp. Handle with care. DO NOT squeeze or bend the propellers during transportation or storage.
- Purchase the propellers separately if necessary.
- Stay away from the rotating propellers and motors to avoid injuries.
- Please check the propeller blades immediately if there are any jitters or speed loss in flight, and timely replace the propellers if it's damaged or deformed.
- Make sure the motors are mounted securely and rotating smoothly. Land the drone immediately if a motor is stuck and unable to rotate freely. Stop flying the drone and contact support if there is any abnormal sound with the motor.
- Make sure that the propellers are installed securely before each flight. Check to make sure the screws on the propellers are tightened.

- ⊘ • When mount or remove the propellers, do not put the screwdriver or other foreign materials inside the motors, otherwise the motor may be damaged.



» 4.6 Flight Data

ATOM will record automatically the flight data and you can access it in the App.

Flight record displays the basic data for each flight.

Flight log records the detailed data of each flight. If you encounter any issue during the flight, you can report it in the App and upload the flight log if necessary to seek for assistance.

- ⚠️ • All flight data is stored on your mobile device, and the company will not obtain any of your flight data unless you voluntarily upload it to the cloud seeking for assistance.

» 4.7 Gimbal and Camera

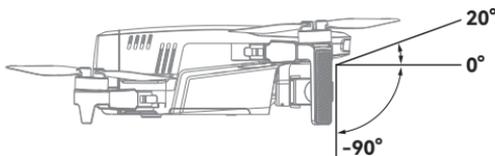
4.7.1 Three-Axis Gimbal

ATOM is equipped with a 3-axis gimbal, allowing you to capture clear and stable images and videos. The

control pitch range is from +20° to -90°, the control roll and yaw range is from +10° to -10°.

The pitch angle of the gimbal can be adjusted by dialing the gimbal dial on the remote controller.

In Video Mode, the control pitch range of the gimbal is +20° to -90°; Otherwise, the control pitch range is 0° to -90°.



- 💡 • Make sure to remove the gimbal protector before powering on the drone.
- After each startup the default tilt angle of the gimbal is 0° (namely the horizontal view).
- ⚠️ • DO NOT collide, tap or apply external force to the gimbal to avoid damaging the precision elements inside.
- Make sure that there are no objects on or around the gimbal and the lens is not dirty before taking off.
- The gimbal is connected to the drone through elastic and shock absorption support, to eliminate camera vibration. Do not pull the gimbal by force. For any damage of shock absorption support, please contact the after-sales team for repairing.
- 🚫 • DO NOT modify the gimbal or stick objects on it, otherwise this will cause the gimbal to shake or lead to permanent gimbal motor damage.

4.7.2 Camera

Basic Parameters	
Sensor brand: SONY	Sensor size: 1/3" CMOS
Effective pixel: 12MP	Aperture: F2.2
FOV: 78°	Focus range: 3 m ~ ∞
ISO range: 100 ~ 6400	Shutter range: 1/24 s ~ 1/25,000 s
Memory: Micro SD card	Picture format: JPG/JPG+RAW (DNG)
Picture size: 12MP (4,608*2,592)	Codec: H.264
Video format: MP4	
Video Resolution: 4K@30/25/24 fps; 2.7K@30/25/24 fps; 1080P@60/50/30/25/24 fps	

-
-  • The gimbal may shake when flying in Sport Mode or strong wind. It is recommended to fly the drone in Video Mode to acquire optimal gimbal stabilization.
 - Do not touch the lens after recording for a long period of time to avoid scald.
 - Do not record video when the drone is not flying; otherwise the drone will trigger overheat protection.
 - The sensor will crop out the edges at 1080P@60/50 fps, it's simply capturing a central section of what the full-frame sensor would capture, and FOV is about 36°.
-

4.7.3 Image Storage

Videos and pictures recorded by ATOM will be stored on the SD card instead of the App or your phone gallery. Make sure to insert the SD card prior to flight. Otherwise, it's unable for ATOM to record videos or capture pictures. (SD card is not included in the pack list.)

User can preview and download the videos and pictures (the drone and the remote controller should be connected) in App.

SD Card Requirements

File format: FAT32, exFAT

Capacity: 4G ~ 256G

Speed requirements: It is suggested to use SD card above U1 (UHS Speed Class 1) or C10 (Class 10)

-
-  • The video downloaded from App is just 720P image used in video transmission. Please read SD card with computer or other device in order to acquire videos of higher definition.
-
-  • The recording can be terminated due to slow write-in when using the U1/C10 SD cards of certain brands.
 - If important data is stored on your SD card, please backup them properly.
 - Do not insert or unplug the SD card when the product is powered on. It may lead to data damage or loss, or even SD card damage when inserting or unplugging SD card during video recording.
 - Potensic does not bear responsibility for any loss due to user's misoperation of SD card.
-

5. Remote Controller

» 5.1 Overview

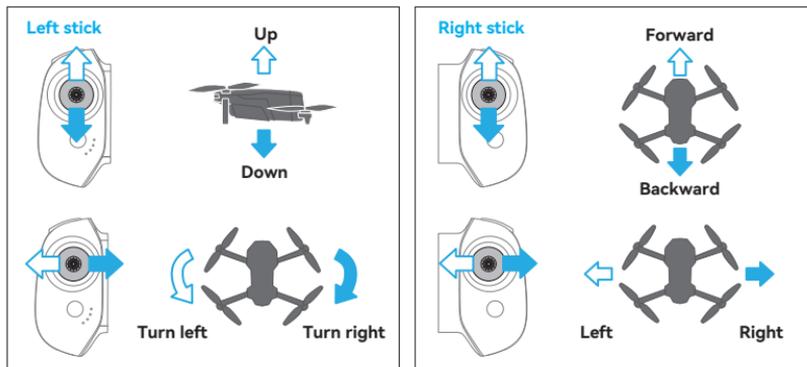
Potensic ATOM is equipped with the DSR02A remote controller, which boasts Potensic long-range PixSync 3.0 video transmission technology, offering a maximum transmission range of 6 km/19,685 ft and 720p when displaying video from the drone to PotensicPro App on your mobile device. Easily control the drone and camera using the onboard buttons. The detachable control sticks make the remote controller easier to store. Thanks to the 2.4Ghz dual band antenna, in a wide-open area with no electromagnetic interference, PixSync 3.0 smoothly transmits video feed at up to 720p at a max altitude of 120 m.

The built-in battery has a capacity of 3000 mAh and a maximum run time of 2.3 hours. There is a Type-C port for device connection. The remote controller charges the mobile device with a charging ability of 500 mA/5 V.

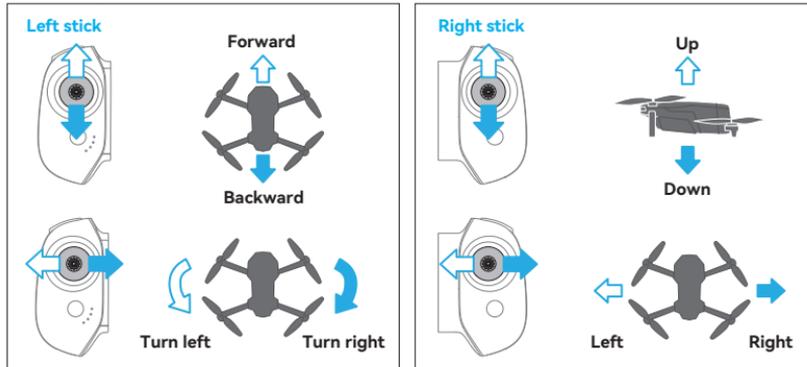
- When used with different drone hardware configurations, the remote controller will automatically select the corresponding firmware version for updating and support the following transmission technologies enabled by the hardware performance of the connected drone models:
a. ATOM SE: PixSync 2.0 b. ATOM: PixSync 3.0

» 5.2 Control Stick Mode

Mode 1 (Left Hand Throttle)

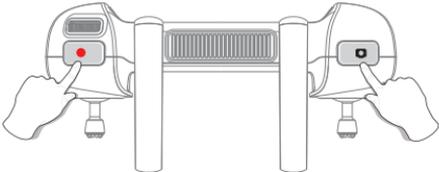
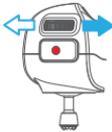


Mode 2 (Right Hand Throttle)



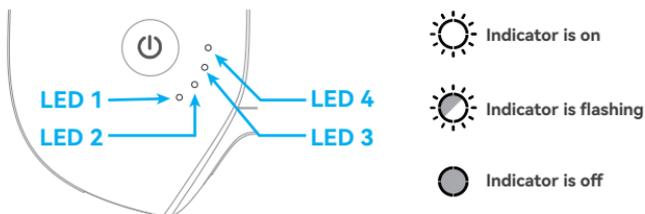
» 5.3 Function

5.3.1 Function List

Charge	<ol style="list-style-type: none"> 1. Connect the USB Charger to the Type-C charging port. 2. The battery is being charged when the LED indicators start flashing. 3. Charging is completed when 4 LED indicators are solid on and data cable can be removed.
Charge mobile phone	When a mobile device is connected, the remote controller automatically charges the device with a charging ability of 500 mA/5 V.
Indicator function	See 5.3.2
Flight control	See 5.2
Low battery prompt	When power level of the remote controller is lower than 10%, the remote controller will emit a beep sound every other second.
Auto shutdown	The remote controller will shut down automatically if it has no connection or operation for 20 mins.
One-key return	See 7.8
Pause	If the drone is performing an Intelligent Flight like Circle Flight or auto landing, press once to make the drone brake and hover in place. Press again to resume the drone flight.
Emergency Propeller Stop Mid-Flight	<p>For any emergency situations during the flight, press "Shoot" and "Record" button for 2 s at the same time till the remote controller beeps, the drone will stop running and fall down.</p> 
Shoot	<p>Short press it to shoot one photo</p> <p>When the camera is in video mode, short press it to switch to photo mode</p> 
Record video	<p>Short press it to start/stop video recording</p> <p>When the camera is in photo mode, short press it to switch to video mode</p> 
Gimbal Dial	<p>Dial it to the right to increase the pitch angle (head up)</p> <p>Dial it to the left to decrease the pitch angle (head down)</p> 
Remote controller frequency pairing	See 5.3.3

5.3.2 Indicator

As shown in the picture below, the remote controller is fitted with 4 white LED indicators to indicate the power level and other status.



Charging indication

LED 1	LED 2	LED 3	LED 4	Current power level of battery
				0% ~ 25%
				25% ~ 50%
				50% ~ 75%
				75% ~ 99%
				99% ~ 100%

Power indication (in use)

LED 1	LED 2	LED 3	LED 4	Current power level of battery
				0% ~ 10%
				10% ~ 25%
				25% ~ 50%
				50% ~ 75%
				75% ~ 100%

Status indication

	LED 1	LED 2	LED 3	LED 4
Frequency pairing				
	Flashing slowly at the same time			
Upgrade mode				
	Turning on sequentially			
Start calibration				
	Flashing slowly at the same time			

5.3.3 Remote Controller Function

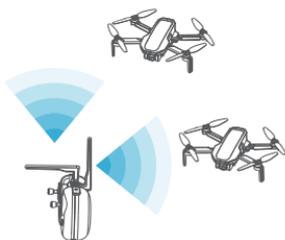
ATOM drone and the remote controller can be used immediately after startup since they have been paired before delivery. Frequency pairing is only required when using a new drone or remote controller for the first time.

Proceed frequency pairing between the drone and the remote controller by tapping "Drone Re-pairing" under Calibration in App Settings. See 8.5 Remote Controller Calibration for the detailed procedures.

» 5.4 Antenna Angle

Adjust the antenna angle along with the changes of drone altitude and distance, to ensure the best communication status of the remote controller.

Wider communication angle is ensured at a close distance in this mode.



Keep both antennas pointing directly towards the drone to acquire a longer transmission distance.



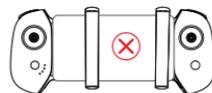
When the drone is directly above the remote controller, the transmission signal is significantly weakened due to the poor antenna angle. To address this, please lower the flight altitude or fly the drone horizontally for some distance, ensuring that the antenna points towards the drone as much as possible, as shown in the picture.



Do not cross the antenna in any case.



Do not press the antenna on your mobile device in any case.



6. PotensicPro App

» 6.1 App Homepage



Tap to view flight records and logs

Tap to choose the corresponding model. The drone model will be matched automatically if user has connected the remote controller to the mobile phone

Display connection status

Tap to enter the flight interface

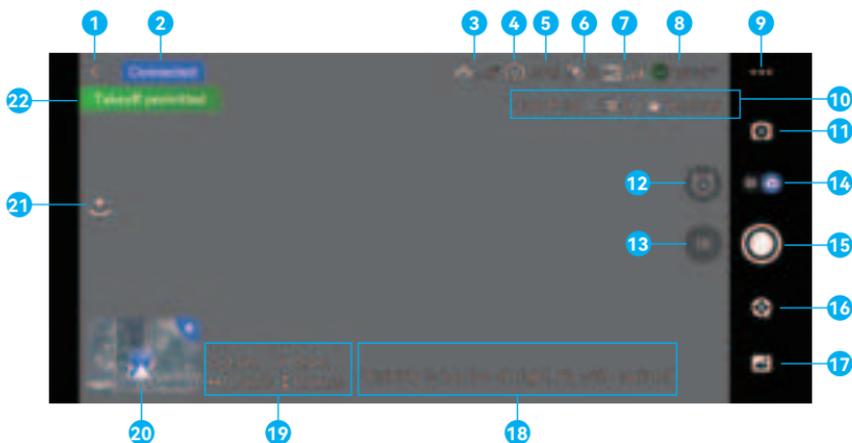
Me: Report a problem, modify account info, browse User Agreement, find the missing drone, close account and other settings

Photo album in App (Connect the drone to see the contents in the drone SD card)

Tap to view the manual, tutorial videos, and FAQs

Homepage of App

>> 6.2 Flight Interface



1. Return button:

Tap to return to the homepage

2. Navigation prompt bar:

Display drone status and flight mode

3. Gimbal angle:

Display current gimbal pitch angle

4. Flight mode:

 Video

 Normal

 Sport

5. Positioning mode:

 GPS GPS positioning

 OPTI Vision positioning

 Atti Attitude mode, no positioning

6. GPS status:

Display GPS signal status and quantity of satellites connected

7. Signal quality of video transmission:

Display the strength of video transmission connection signal between the drone and the remote controller

8. Power level of the smart battery: Estimated Remaining Flight Time

9. Settings

Tap to view information about Safety, Calibration, Control, Camera and About.

Safety

Switch on/off Beginner Mode: If switched on, the drone will be confined to fly in a cylindrical space with a radius of 30 m and a height of 30 m and restricted to fly only in Video Mode. After installing the propeller guards, make sure to enable Beginner Mode.

Set measurement system (Metric or Imperial) and speed (Video/Normal/Sport)

Set drone behavior when signal lost: Return/Land/Hover

Return — the drone will automatically ascend to 120 m and return to the HOME point.

Land — the drone will land on the spot where it loses the signal.

Hover — the drone will hover in place where it loses the signal.

Enable the Silent Return Mode: after enabling, the remote controller will no longer beep when the drone enters RTH mode in the future (To stop the current beeping, simply short press the power button on the remote controller).

Enable/disable Flight Safety Tips

Battery information: check the temperature, current, voltage and others of the smart battery.

Calibration

This sector includes compass calibration, gimbal calibration, gimbal fine-tuning, remote controller calibration and drone re-pairing.

Control

Remote Controller Settings: Tap to switch control stick mode (Mode 1: Left Hand Throttle; Mode 2: Right Hand Throttle)

Gimbal Settings: Tap to set gimbal maximum pitch speed, gimbal angle (0°-90°), and to switch between Gimbal Stable Mode or FPV Mode.

Camera

General Settings: Tap to set white balance, gridlines, segmental recording, etc. Tap to check microSD card capacity and format.

Other Settings: Enable/disable Telemetry Data, and add GPS coordinates in photos.

About

View device information, firmware information, App version, etc.

10. Shooting Information Display/Settings

 **Photo Mode:** displays photo format, EV (exposure value) and the remaining numbers of photos or the available capacity of the current microSD card.

 **Auto Mode:**



Tap  to switch between the display of the remaining numbers of photos or the available capacity of the current microSD card.

Tap  to set EV.

Tap  to set photo format to JPG or RAW+JPG.

 **Manual Mode:**



Tap **WB 5000K** to set white balance.

Tap **SS 1/100** to set camera SS (shutter speed).

Tap **ISO 800** to set ISO (light sensitivity).

 **Video Mode:** displays video resolution, EV (exposure value) and the remaining video recording time or the available capacity of the current microSD card.

 **Auto Mode:**



Tap  to switch between the display of the remaining video recording time or the available capacity of the current microSD card.

Tap  to set EV.

Tap **4K 30** to set video resolution and frame rate.
4K: 30/25/24 fps, 2.7K: 30/25/24 fps, 1080P: 60/50/30/25/24 fps

 **Manual Mode:**



Tap **WB 5000K** to set white balance.

Tap **SS 1/100** to set camera SS (shutter speed).

Tap **ISO 800** to set ISO (light sensitivity).

11. Camera Manual/Auto Mode

 **Auto Mode**

 **Manual Mode:** Tap to manually adjust ISO, shutter time, white balance, and set the parameters by observing the exposure value (EV)

12. Interval Timer Shooting Mode:

In Interval Timer Shooting Mode, the camera will take photos at a selected time interval continuously. Conditions to activate the Interval Timer Shooting Mode: camera set to Photo Mode and the image format to JPG.

Long press the icon to start the timer dial. Choose the time interval then tap  or click the photo button on the remote controller to start taking photos. Tap  to cease shooting, and tap again  to exit Interval Timer Shooting Mode.

13. Digital Zoom Mode:

The icon displays the current zooming setting. Tap to quickly switch between 1x, 2x or 3x to zoom in or out. For a more precise zoom, touch and hold the zoom icon then drag the dial up and down. You can also pinch in or out on the screen with two fingers to zoom in and out.

The camera supports 2x digital zoom in Photo Mode and up to 3x in Video Mode (2x digital zoom in 4K, 3x in 1080P and 2.7K, but no digital zoom in 1080P at 50/60 fps).

14. Shoot/Record switch button:

 to switch from shooting to video recording

 to switch from video recording to shooting

15. Shoot/Record button:

 Video recording mode, tap to start video recording

 Video recording in progress, tap to cancel

 Shooting mode, tap to shoot picture

16. Intelligent Flight Modes:

 **QuickShots shooting modes:** Pull-Away, Rocket, Circle, Spiral and Boomerang. The drone records the target according to the selected shooting mode and automatically generates a short video which will be saved in MicroSD card.

 **Visual Tracking:** The drone tracks automatically the targeted subject to record and generates a short video which will be saved in MicroSD card.

Please watch the tutorial videos for detailed instructions!

17. Album:

Preview or download shot videos or pictures in SD card.

18. Flight Safety Tips:

Users can turn on/off Flight Safety Tips in App Settings → Safety. After turning it on, flight-related tips or suggestions will be displayed on the lower right side of the flight interface.

19. Display flight speed and distance:

 **Horizontal distance from the drone to HOME point**

 **Relative height from the drone to HOME point**

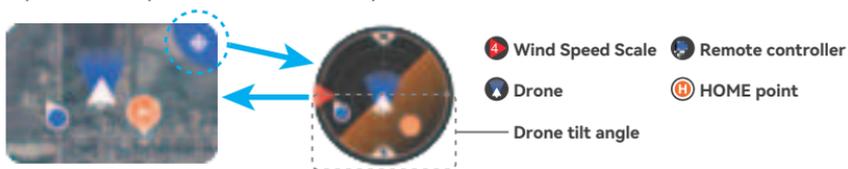
 **Flight speed of the drone**

 **Ascent/descent speed of the drone**

20. Attitude Indicator/Thumbnail map:

Tap the upper right corner to switch to Attitude Indicator Mode

Tap thumbnail map to switch to full-screen map



The attitude indicator displays information of drone direction, tilt angle, remote controller direction, HOME point and more.

The attitude indicator can show the angle and direction of the drone in real time as follows:

Legend				
Tilting direction of the drone	Tilt forward: the horizon line tilts towards the upper half of the attitude indicator	Tilt backward: the horizon line tilts towards the lower half of the attitude indicator	Tilt to the right: the horizon line tilts towards the right side	Tilt to the left: the horizon line tilts towards the left side

Different colors of the attitude indicator:

Legend	Description
	Green indicates that the drone is flying at a relatively small tilt angle, high precision control over the gimbal and optimal video quality can be achieved.
	Yellow indicates that the drone is flying at a relatively large tilt angle, the control precision of the gimbal may be affected, and the video quality may be reduced.
	Red indicates that the drone is flying at a very large tilt angle. If the attitude indicator frequently turns red during flight, the drone may be encountering strong winds and the video quality can be compromised. Please fly the drone back and land it as soon as possible.



- When the icons of the drone and the remote controller both turn green, it indicates that the remote controller is facing the drone which guarantees the optimal communication signal.
- After the drone is powered on and enters GPS mode, the current GPS coordinates will be updated as the HOME point. Pay attention to the update prompt of the HOME point.



- When the drone takes off in OPTI mode and then enters GPS mode, the HOME point might not be the take-off point. Pay attention to the return safety.

21. One-key takeoff, landing/return

The App will display different buttons based on drone status. Tap to initiate one-key takeoff, landing or return.

-  Tap to unlock, take off and hover at a height of 1.2 m
-  Tap to land or auto return.

22. Display important information or status of drone



- Make sure to fully charge the mobile device prior to flight, because the power of the mobile device will be consumed even if it is charged by the remote controller.
- Mobile cellular data is required when using the PotensicPro App. Please contact your wireless carrier for data charges.
- While using the App, make sure to read and master the pop-up prompts and warning information of App to know the current status of the drone.
- It is recommended to replace any outdated mobile device which may have a negative impact on user experience of App and lead to potential dangers. For any poor user experience and safety problems due to the use of an outdated mobile device, Potensic does not bear any liability.

7. Flight

This chapter introduces safe flight practices and requirements.

» 7.1 Requirements of Flight Environment

01. Do not fly in adverse weather conditions such as strong winds, rain, snow, hail, or dense fog.
02. Choose an open area free of tall buildings for your flight. Structures with significant steel reinforcement can interfere with the compass and block GPS signals, leading to poor or failed positioning. Ensure you hear the voice prompt "HOME point updated" before continuing your flight. If flying near tall buildings, HOME point accuracy may be compromised, so closely monitor the drone's position and manually control the landing as it nears the HOME point.
03. Ensure the drone remains within visual line of sight (VLOS) during flight to avoid GPS signal blockage by mountains or trees. For beyond-visual-line-of-sight (BVLOS) flights, ensure the drone is in good condition, you possess the necessary pilot qualifications, and the flight complies with local laws and regulations.
04. Fly away from obstacles, crowds, water surfaces, airports, highways, high-speed train stations, and urban areas unless you have obtained relevant permissions or approvals according to local laws and regulations.
05. Avoid flying near high-voltage power lines, communication base stations, or transmission towers to prevent signal interference with the remote controller.
06. Exercise caution when flying above 3000 m (9842 ft), as battery and propulsion system performance may decrease due to environmental factors. Do not exceed the specified altitude (2000 m/6562 ft when propeller guards are installed).
07. Braking distance increases with altitude. Allow sufficient braking distance for safe flight in high-altitude regions.
08. GPS positioning and Waypoint flights are not available within the polar circles.
09. Fly only in well-lit environments with clear surface textures and minimal glare. Daytime flights only.
10. Avoid flying near flocks of birds.
11. Exercise caution when taking off from moving surfaces (such as cars or boats). Do not take off from uniform or highly reflective surfaces (e.g., car roofs, monochrome tiles, glass).
12. Choose flat, hard surfaces for takeoff. Avoid gravel or bushy areas. Excessive vibration before unlocking the motors may prevent takeoff.
13. Be cautious when taking off from desert or sandy beach surfaces to prevent dust from entering the drone.
14. Do not use the drone in flammable or explosive environments.
15. Avoid flying in extremely cold or hot conditions to prevent hazards.
16. Use the drone, remote controller, smart battery, charging cable, and charging hub only in dry environments.
17. Do not operate the drone, remote controller, smart battery, charging cable, or charging hub in hazardous conditions such as accident sites, fires, explosions, floods, tsunamis, avalanches, landslides, earthquakes, dusty environments, or sandstorms. Avoid salt spray and mold exposure during operation.

» 7.2 Pre-flight Checklist

The following pre-flight checks are required:

1. Ensure the gimbal protector is removed.
2. Ensure the smart battery, remote controller, and mobile device are fully charged.
3. Verify that the smart battery and propellers are correctly installed. Check for any deformation or looseness in the propellers and screws.
4. Ensure the front and rear arms are fully extended.
5. After powering on, check that the camera and gimbal are functioning properly and that the motors start normally.
6. Confirm the App is running correctly. Check that all firmware is updated to the latest version.
7. Ensure the SD card is inserted and the camera lens is clean.

8. Always use original accessories. Using non-original parts may compromise the drone's safety.
9. Check the local weather conditions to ensure they are suitable for flying. Ensure the flight environment is open and free of interference.
10. Power on the drone on a flat, open surface, wait for it to enter GPS mode, and confirm the HOME point location before takeoff.

» 7.3 Connection

Please follow the steps below:

1. Please finish the steps in "3.5 Preparing the Remote Controller" and turn on the remote controller.
2. Please finish the steps in "3.4 Preparing the drone" and turn on the drone.
3. Launch App to view the connection status. Connection is finished when it shows .
4. Tap  to enter the flight interface.

 • **It is advised to tap  and follow the animated guide to operate for first-time users.**

» 7.4 Flight Mode

ATOM has three flight modes—Video/Normal/Sport, which can be switched via the App.

Video Mode

Ascent speed: 2 m/s, descent speed: 2 m/s, flight speed: 6 m/s

The drone enters Beginner Mode by default when being used for the first time. The flight speed will be limited to the same as in Video Mode to allow you to familiarize yourself with the controls of the drone.

Normal Mode

Ascent speed: 4 m/s, descent speed: 3 m/s, flight speed: 10 m/s

You can exit Beginner Mode after you have mastered adequate flight skills, and the drone will switch to Normal Mode by default.

Sport Mode

Ascent speed: 5 m/s, descent speed: 4 m/s, flight speed: 16 m/s

Video mode is recommended for aerial photography. Sport mode is recommended if you would like to get a speedy flight experience.

Please fly with caution in Sport Mode as the responsiveness of the drone significantly increases, which means a small control stick movement on the remote controller translates into the drone moving a large distance.

-
-  • **To ensure flight safety, the Sport Mode is only available when the battery level is greater than 30% and the flight altitude greater than 8 m. During the flight in Sport Mode, if the battery level drops below 30% or the flight altitude is lower than 4 m, the drone will exit Sport Mode automatically.**
- **Be vigilant and maintain adequate maneuvering space during flight, as the responsiveness of the drone significantly increases in Sport mode.**
 - **The maximum speed and braking distance of the drone significantly increase in Sport Mode. A minimum braking distance of 30 m (100 ft) is required in windless conditions to ensure safety.**
 - **When flying in Sport Mode or strong wind, the gimbal may shake, which is normal.**
-

» 7.5 Beginner Mode

The drone is automatically set to Beginner Mode for first-time use. In Beginner Mode:

1. The flight distance and height will be restricted at 0 ~ 30 m
2. The speed level will be restricted to the same as in Video mode
3. Users operating the drone for the first time are suggested to learn and master the drone in Beginner Mode

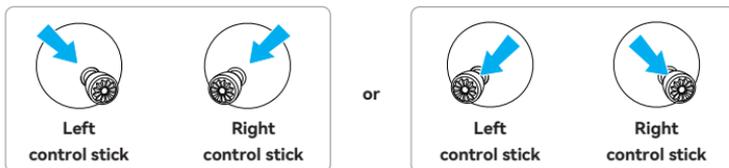
» 7.6 Takeoff/Landing/Hovering

7.6.1 Manual Takeoff/Landing

Takeoff

Step 1: Start the motors

Use a combination stick command to start the motors. Push both sticks to the bottom inner or outer corner depending on your control stick mode to start the motors. Release both sticks simultaneously once the motors are spinning.



Step 2: Push throttle control stick to take off

Push the throttle control stick upwards gently as shown in the picture, release the control stick when the drone leaves ground and it will keep hovering.



Landing

Pull the throttle control stick until the drone lands on ground. Release the throttle control stick when the motors are no longer spinning.

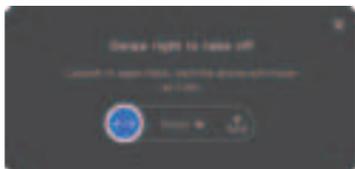
Take off from stable and level plane, do not take off from or land on the palm or by hand.

- ⚠ • When the drone in the non-static state, Push both sticks to the bottom inner or outer corners for 2 s to force unlocking it. Please stay away from the drone for more than 5m before operation for your own safety.**

7.6.2 One-key Takeoff / Landing

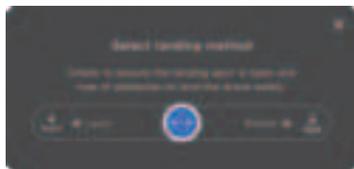
One-key takeoff

Tap one-key takeoff button  in App, then swipe right in the pop-up window to start the drone automatically then ascend to the height of 1.2 m and maintain hovering.



One-key landing

Tap one-key landing button  in App, then swipe left in the pop-up window to land the drone, or swipe right to start returning.



» 7.7 Intelligent Flight Modes

7.7.1 QuickShots

Introduction	QuickShots shooting modes include Pull-Away, Rocket, Circle, Spiral and Boomerang. The drone records the target according to the selected shooting mode and automatically generates a short video which will be saved in MicroSD card.		
How to Start	<ol style="list-style-type: none"> 1. Tap  in the App to start QuickShots. 2. Choose a shooting mode and set the parameters on the right. 3. Tap  or drag-select your target subject (It is recommended to choose a human as a target subject rather than a building), then tap  to begin recording. 		
How to Exit	<ol style="list-style-type: none"> 1. Tap  in the App or move a control stick to finish recording. The drone will hover in place. 2. Tap  on the right to exit QuickShots. 		
Explanation	Mode	Description	Adjustable Parameter
	 Pull-Away	The drone flies backward and ascends with the camera locked on the subject.	Return to the starting point after finishing recording?  Yes  No
	 Rocket	The drone ascends vertically with the camera pointing downward at the subject.	Distance
	 Circle	The drone circles around the subject starting from current position.	Relative altitude
	 Spiral	The drone ascends and spirals around the subject.	Flight direction (clockwise/counterclockwise)  Clockwise  Counterclockwise
 Boomerang	The drone flies around the subject in an oval path, ascending as it flies away from its starting point to the farthest distance and descending as it flies backward.	Number of laps (choose from 1-3)	

• Conditions to activate QuickShots:

1. The drone is airborne with strong GPS signal;
2. MicroSD card is inserted with available storage;
3. Sufficient battery level;
4. The drone is not in auto-flight state (auto return or landing).
5. The drone must be at least 2 m above the ground.
6. When locking the target in QuickShots, the gimbal pitch angle needs to be between -75° ~ -15° .

- ⚠️ Use QuickShots at locations that are clear of buildings and other obstacles. Make sure there are no humans, animals, or other obstacles on the flight path.
- Before getting familiar with the flight path of QuickShots, please try a smaller flight distance first.
- Be ready to take over control of the drone by moving any control stick at any time in emergency and the drone will exit QuickShots and hover in place.
- Pay attention to objects around the drone and use the remote controller to avoid collision with the drone or when the drone is being blocked.
- DO NOT use QuickShots in places that are close to buildings or where the GPS signal is weak. Otherwise, the flight path will be unstable.
- Make sure to follow local privacy laws and regulations when using QuickShots.
- QuickShots is not available in the following situations:
 1. The drone is on the ground.
 2. GPS signal is weak.
 3. MicroSD card is not inserted or no storage available.
 4. The battery level is low.
 5. The current altitude of the drone is insufficient.
 6. The drone reaches the virtual fence.
 7. The gimbal is horizontal or tilted upwards.
- DO NOT use QuickShots in any of the following situations where the Downward Vision System may not work properly:
 1. When the subject is blocked or outside the line of sight for an extended period.
 2. When the subject is more than 50 m away from the drone.
 3. When the subject is similar in color or pattern with the surroundings.
 4. When the subject is in the air.
 5. When the subject is moving fast.
 6. When the ambient lighting is extremely low or high.
- QuickShots does not support video recording in 1080P@60/50 fps.
- After the subject is locked in QuickShots, the gimbal pitch angle can't be adjusted.

7.7.2 Visual Tracking

Description	The drone tracks automatically the tracked subject to record and generates a short video which will be saved in MicroSD card.
How to Start	<ol style="list-style-type: none"> 1. Tap  in App the tap  on the right to start Visual Tracking. 2. Tap  or drag-select your subject, and choose the recording period (1, 3, 5 min or infinite ∞). 3. Tap  to start Visual Tracking.
How to Exit	<ol style="list-style-type: none"> 1. Tap  on the right or move a control stick during recording to stop and exit Visual Tracking and the drone will hover in place. 2. Tap  on the right to exit Visual Tracking.

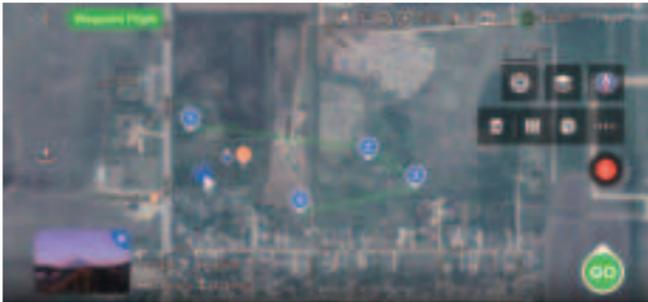


- Visual Tracking is unavailable when the drone is on the ground.
- During Visual Tracking, the gimbal dial will remain unresponsive.
- Once the tracked subject is lost, the drone will hover in place.
- When the tracked subject is approaching the drone, it will hover in place and not move backwards.
- When locking the target in Visual Tracking, the gimbal pitch angle needs to be between -75° ~ -25° .
- The drone must be at least 4 m above the ground to activate Visual Tracking.
- The maximum speed supported by Visual Tracking is 8 m/s.
- When using Visual Tracking, it is recommended to accelerate or decelerate as gently as possible when the target being followed moves, and the average speed should not exceed 4 m/s to ensure the stability of tracking.



- Use Visual Tracking at locations that are clear of buildings and other obstacles. Make sure there are no humans, animals, or other obstacles on the flight path.
 - DO NOT use Visual Tracking in places that are close to buildings or where the GPS signal is weak. Otherwise, the flight path will be unstable.
 - Be ready to take over control of the drone by moving a control stick at any time in emergency and the drone will exit Visual Tracking and hover in place.
 - Visual Tracking is not available when the drone is flying near distance and altitude limits.
 - Make sure to follow local privacy laws and regulations when using Visual Tracking.
 - Be extra vigilant when using Visual Tracking in any of the following situations:
 1. The tracked subject is not moving on a level plane.
 2. The tracked subject changes shape drastically while moving.
 3. The tracked subject is blocked or out of sight for an extended period.
 4. The tracked subject is moving at a fast speed.
 5. The tracked subject has a similar color or pattern to its surrounding environment.
 6. When the ambient lighting is extremely low or high.
 - It's recommended to maintain a distance of 5-10 m and an altitude of 4-10 m when tracking people. It's recommended to maintain a distance of 20-50 m and an altitude of 10-50 m when tracking vehicles or boats. Operate the drone outside of the recommended range and it may not detect well the intended subject.
-

7.7.3 Waypoint Flight

Description	When Waypoint Flight is enabled, you can pin 2 or more waypoint coordinates in App map, and the drone will fly over the corresponding waypoints sequentially.
How to Start	<p>When the GPS signal is strong, tap the map in the lower left corner of the App to switch to map, then tap  on the right to enter Waypoint Flight mode, tap on the map to pin multiple waypoints, after that tap  to start Waypoint Flight.</p>   <p>You can preset 2 to 30 waypoints on the map and the figure in the icon indicates the flight sequence.</p> <p>Meanwhile, you can delete certain waypoint, save the current Waypoint Flight task, or choose from the saved Waypoint Flight tasks.</p>
How to Exit	<ol style="list-style-type: none">1. Tap  on the right or move a control stick (except throttle control stick) to stop and exit the current Waypoint Flight task and the drone will hover in place.2. Tap  on the right to exit Waypoint Flight.

 • During Waypoint Flight, you can adjust the flight altitude via the throttle control stick and the gimbal tilt via gimbal dial.

 • During Waypoint Flight, the drone will exit the current flight task and hover in place if it reaches the virtual fence.

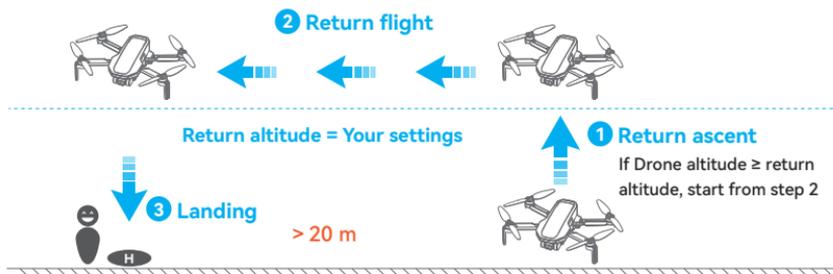
» 7.8 Return (RTH)

7.8.1 Regular Return

The regular return consists of three steps, as follows:

1. **Ascent:** The drone ascends to the preset return altitude (this step is skipped if the drone's altitude is already higher than the return altitude).
2. **Level flight:** The drone maintains a straight flight at the set altitude towards the HOME point.
3. **Landing:** Once it reaches the HOME point, the drone will automatically land and stop its motors.

Return to Home (RTH) The drone must be in GPS mode



How to Start RTH

One key RTH: Press and hold the RTH button on the remote controller for 1 s or tap  in the App to pop up the menu, then swipe right to start the return.

Auto RTH: When either the drone battery level is low, the signal between the drone and the remote controller is lost or the drone is experiencing other abnormalities, Auto RTH will be triggered.

-  • If there are obstacles in the surrounding environment and it's not suitable to return, it is recommended to keep the drone hovering or land the drone after losing signal in Settings to avoid colliding with the obstacles during RTH.

How to exit RTH

Method 1: Tap  on the left of App to exit RTH.

Method 2: Briefly press the return button on the remote controller to exit RTH.

RTH Requirements

The drone must take off in GPS mode and successfully record the HOME point.

If the drone takes off in OPTI mode and switches to GPS mode mid-flight, it will not be able to return to the takeoff point.

Please pay attention to the location of the HOME point on the map and the prompts in PotensicPro App.



- To ensure the safety of the return flight, please set the appropriate return altitude in the app according to the flight environment.
- During the return course, users can still adjust the flight altitude by toggling the throttle control stick.
- When the drone is within 20 m of the HOME point and RTH is initiated, a pop-up window will appear in the App for the user to select between landing and return. If return is selected, the minimum return altitude is 5 m. The drone will land automatically if no action is taken after a countdown of 10 seconds. Please pay attention to flight safety.
- Tall buildings or obstacles can block the transmission signal and cause signal loss. Do not fly behind buildings beyond the return altitude, otherwise the drone will collide with obstacles and crash during the return. If the drone enters ATTI mode due to GPS failure or GPS signal interference, it will not be able to return. During the return process, strong headwinds may be encountered. Lowering the flight altitude Appropriately can help reduce power consumption. If the power is insufficient, the drone will perform a forced landing in place. Please pay attention to the prompts in PotensicPro App. Do not initiate the return when there are obstacles overhead, such as tall trees, otherwise the drone may crash during the climb.



- Please pay attention to return safety, because the drone does not support obstacle avoidance and may crash when colliding with obstacles during the return course.
- If the drone loses connection during the RTH process and the GNSS signal is disrupted due to interference or other environmental factors, the drone will terminate the return task and automatically enter attitude mode (ATTI). At this point, issues such as loss of positioning or drift may occur. The flight status "ATTI" will be displayed in the top left corner of the flight interface, along with a warning prompt. Please take manual control immediately. When the video transmission signal is lost, the drone will continuously search for the remote controller and GNSS signals.
 1. Once the GNSS signal is restored, the drone will reposition and automatically return to the HOME point.
 2. If the remote controller and GNSS signals cannot be restored and the battery is too low, the drone will automatically trigger the low battery emergency landing function.
- If the drone is set to return on signal loss, and the remote controller signal is lost during the flight, the drone will automatically enter RTH mode. When the video transmission signal is disconnected, the drone and remote controller will continuously attempt to reconnect. Once the remote controller and video transmission are restored, you can regain the control of the drone.

7.8.2 Descending Return

How to Activate

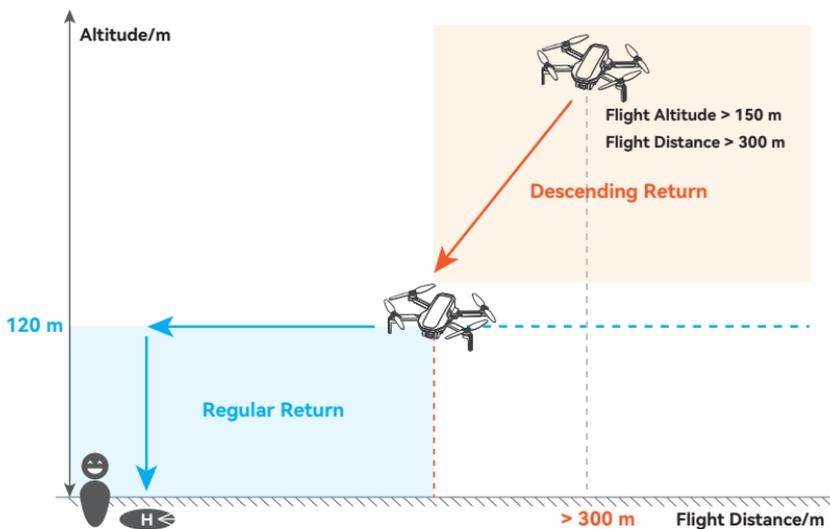
After 10 seconds into the RTH course, if the flight altitude is greater than 150 m and the flight distance greater than 300 m, the App will prompt a message for you to confirm whether to initiate the descending return. Once confirmed, the drone will start the descending return (the drone will descend its altitude while approaching the HOME point). When its altitude descends to 120 m, the drone will switch to the regular return maintaining its current altitude till it reaches the HOME point and lands automatically.

How to Exit

Tap  on the left of the App interface or keep pushing the throttle control stick up for 2 seconds to exit the descending return. The drone will switch to the regular return maintaining the current altitude.

1. When encountering strong winds, the descending return can save power consumption and guarantee a more successful return.
2. If the drone is disconnected from the remote controller during the descending return, it will switch to the regular return.

- ⚠️ This product does not have an obstacle avoidance function. Please pay attention to flight safety during the return process.
- This feature is only available for countries or regions where drones are legally allowed to fly over 120 m.



» 7.9 Emergency Propeller Stop Mid-Flight

In case of an emergency during flight where the drone needs to be stopped immediately, you can use the Emergency Propeller Stop Mid-Flight feature. Stopping the motors mid-flight will cause the drone to crash. Use this function with caution.

How to enable:

The Emergency Propeller Stop feature is disabled by default. To enable it, go to PotensicPro App > Settings > Safety > Emergency Propeller Stop Mid-Flight. After enabling, in an emergency, press and hold the Photo and Video buttons simultaneously for 2 seconds. The motors will be stopped immediately. When using this feature, ensure the area below the drone is clear. See 5.3.1 Emergency Propeller Stop Mid-Flight for the detailed operation method.

- ⚠️ The Emergency Propeller Stop Mid-Flight feature is designed for situations where the drone is out of control or in other emergencies. By immediately stopping the motors, this feature reduces the risk of the propellers causing injury to people or damage to valuable objects. The drone may be damaged upon crashing, please use this feature with caution.

8. Calibration

This chapter mainly introduces the calibration-related functions in Settings, including compass calibration, gimbal calibration, gimbal fine-tuning, remote controller calibration, and drone re-pairing.

» 8.1 Compass Calibration

8.1.1 When to perform compass calibration

1. Compass calibration is required for first-time use.
2. Flying the drone at a location more than 500 km (310 miles) away from its last flight.

- **Do not calibrate the compass in locations where magnetic interference may occur, such as close to magnetic deposits or large metallic structures such as parking structures, steel reinforced basements, bridges, cars, or scaffolding.**
- **DO not carry objects that contain ferromagnetic materials such as mobile phones near the aircraft during calibration**
- **Make sure the drone is at least 1.5 m (4.92 ft) above the ground when calibrating.**
- **It's not necessary to calibrate the compass when flying indoors.**

8.1.2 Calibration Procedure

1. When calibration is required, the App will pop up the calibration interface automatically, tap "Start Calibration", and the drone status indicator will alternatively flash red and green.
2. Hold the drone horizontally and rotate it 360° till the App shows vertical calibration, and the drone status indicator will alternatively flash blue and green.
3. Hold the drone vertically and rotate it 360° around a vertical axis till the App prompts the calibration completed.

You can also trigger compass calibration manually in the App: Settings - Calibration - Compass Calibration.



- ⚠ • **When you get the prompt "Calibration failed" in the App repeatedly, change the location and try the calibration procedure again.**
- 🚫 • **Do not calibrate compass while arms are folded.**

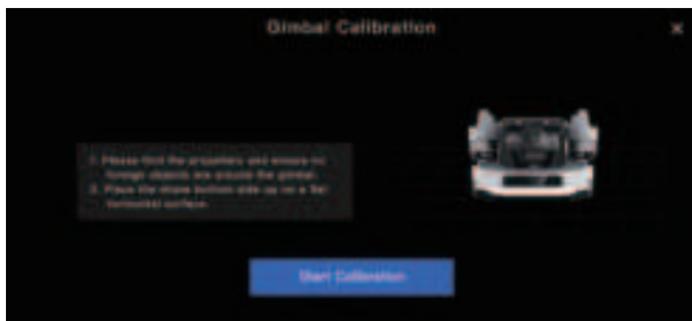
» 8.2 Gimbal Calibration

8.2.1 When to perform gimbal calibration

1. When the gimbal is not working or obviously unlevel after powering on and before take-off, please calibrate the gimbal.
2. When the gimbal is unstable or unable to stay level in flight, please land the drone and calibrate the gimbal.

8.2.2 Calibration Procedure

1. Tap Settings in the App, select "Gimbal Calibration", then place the drone on a level table with the bottom facing up.
2. Tap "Start Calibration", then calibrate, the live transmission view will appear on the calibration interface.
3. When the progress bar is fully loaded and the App prompts "Calibration Succeeded", the calibration is completed.



-
-  • Do not move the drone significantly during the calibration process, otherwise the calibration may fail.
-

» 8.3 Gimbal Fine-tuning

The gimbal fine-tuning is for manually calibrating the gimbal, and adjusting the roll and yaw offset angle of the gimbal. You can tune the angle with reference to the status of the live transmission view on the App interface.

8.3.1 When to perform gimbal fine-tuning

When the gimbal is unable to stay level or slightly tilting on level ground.

8.3.2 How to use the Gimbal Fine-Tuning

1. Tap Settings in the App, select "Gimbal Fine-Tuning", then tune the roll and yaw angles of the gimbal with a range of $\pm 10^\circ$, you can tap "+/-" to adjust the gimbal angles or set the angle value directly, tap once means "+0.1°/-0.1°".
2. Gimbal Roll Adjustment: Tap "+" to roll to the right, and tap "-" to roll to the left.
Gimbal Yaw Adjustment: Tap "+" to yaw to the right, and tap "-" to yaw to the left.
3. Tap "Default Value" to restore the default angles (0°)



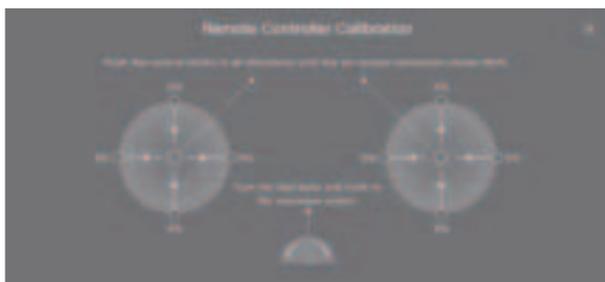
» 8.4 Remote Controller Calibration

8.4.1 When to perform remote controller calibration

1. When the drone drifts automatically in one direction without any toggling of the control sticks.
2. When the drone auto-rotating sideways continuously.
3. When the control sticks are over-sensitive or lack sensitivity.

8.4.2 Calibration Procedure

1. Turn on the remote controller, and connect the mobile device, tap Settings in the App, select "Remote Controller Calibration".
2. Make sure the control sticks are in the middle position and do not operate it before tapping to start the calibration.
3. Tap "Start Calibration", then follow the on-screen instructions and toggle the sticks in all directions until the App displays 100%, and rotate the dial back and forth to its maximum extent.
4. When App prompts "Calibration Succeeded", the remote controller calibration is completed.



» 8.5 Drone Re-pairing

8.5.1 When to perform drone re-pairing

Drone re-pairing is required if you replace the drone or remote controller.

8.5.2 Drone Re-pairing Procedure

1. Turn on the remote controller, and connect the mobile device, tap Settings in the App, select "Calibration", tap "Re-pairing the drone" to re-pair.
2. Power on the drone and long press the power button till the drone status indicators flash green, the drone is ready to pairing.
3. Wait for about 7 s, the pairing succeeds when the controller beeps "Di", then you can view the live transmission on the App interface.

-
- ⚠ • **Make sure the distance between the remote controller and the drone is within 1 m (3.3 ft) and away from other 2.4G frequency interference during the frequency pairing process.**
 - **If the pairing has failed, please check if there is any interference from the current location, if any other drones are under pairing, or if the distance is too far between the remote controller and the drone or any blocks between them. If none of the above, please try the pairing procedures again.**
 - **Do not move or operate the drone and controller during the frequency pairing process.**
-



» 9.1 Specification & Parameters

Drone

Model: DSDR04C

Takeoff Weight: 242 g (the takeoff weight includes battery and propeller blades)

Folded Size: 88x143x58 mm

Unfolded Size (propeller blades included): 300x242x58 mm

Unfolded Size (propeller blades excluded): 210x152x58 mm

Diagonal Distance: 219 mm

Max Speed (Sport Mode): Ascent speed: 5 m/s; Descent speed: 4 m/s; Flight speed: 16 m/s

Max Wind Speed Resistance: 38 km/h (Level 5)

Maximum Flight Altitude: 120 m/393.7 ft

GNSS: GPS+GLONASS+Galileo+BeiDou

Operating Temperature: 0°C ~ 40°C

Operating Frequency: 2.400 ~ 2.4835 GHz

Transmission Power: 2.4 GHz: < 20 dBm

Hovering Accuracy Range: Vertical: ± 0.1 m (with Vision Positioning),

± 0.5 m (with GPS Positioning)

Horizontal Flight: ± 0.3 m (with Vision Positioning),

± 1.5 m (with GPS Positioning)

Extra Payload: Not supported

Max Flight Time: 32 min (measured at breezeless condition and even speed of 5 m/s)

Max Hover Time: 29 min (measured in indoor hovering)

Max Takeoff Altitude: 4000 m

Downward Vision System

Hovering range: 0.3 m ~ 5 m (ideal environment); Available at 0.3 m ~ 10 m.

Unavailable scenarios of vision positioning:

1. Pure-color surface
2. Surface with strong reflection, such as smooth metal surface
3. Transparent object surface, such as water surface and glass
4. Moving texture, such as running pets
5. Scenarios with drastic change of light; for example, the drone flies to outdoor space with strong light from indoor space
6. The places with weak or strong light
7. The surface with repeating identical patterns or textures, such as floor tile with the same texture and size
8. The surface with highly consistent strip pattern

Camera

Lens Tilt Range: +20° ~ -90°

CMOS: 1/3"

Effective Pixel: 12MP

ISO Range: 100 ~ 6400

Electronic Shutter Speed: 1/24 s ~ 1/25000 s

FOV: 78°

Aperture: F2.2

Photo Resolution: 4608*2592

Image Format: JPG/JPG+RAW (DNG)

Video Resolution: 4K@30/25/24 fps; 2.7K@30/25/24 fps; 1080P@60/50/30/25/24 fps

Video Format: MP4 (H.264)

Max Video Bitrate: 50 Mbps

Supported File System: FAT32, exFAT

Type Of Supported Storage Card: MicroSD card; 4 ~ 256 GB SD card transmission speed ≥ class 10 or U1 standard

Remote Controller

Model: DSRC02A

Operation Frequency: 2.402 ~ 2.483 GHz

Max Transmission Distance (unobstructed, free of interference): 6 km

Operating Temperature: 0°C ~ 40°C

Battery: 3000 mAh, lithium battery, 1 S

Transmitter Power (EIRP): 2.4 GHz: ≤20 dBm

Charging Interface: TYPE-C

Charging Specification: 5 V/1 A

Video Transmission System: PixSync 3.0

Video Transmission Quality: 720P

Latency (depending on environment and mobile device): 200 ms

Supported Mobile Device Size: Length: 170 mm, Width: 100 mm, Thickness: 6.5 mm ~ 8.5 mm

Smart Battery

Model: DSBT02B

Capacity: 2230 mAh

Voltage: 7.7 V

Battery Type: Li-Po 2 S

Energy: 17.18 Wh

Battery Weight: 84 g

Working Temperature: 0°C ~ 40°C

» 9.2 Post-Flight Checklist

- Make sure to perform a visual inspection so that the drone, remote controller, gimbal camera, flight batteries, and propellers are in good condition. Contact Potensic support if any damage is noticed.
- Make sure that the camera lens and vision system sensors are clean.
- Make sure to store the drone correctly before transporting it.

» 9.3 Maintenance Instructions

To avoid serious injury to children and animals, observe the following rule:

1. Small parts, such as cables and straps, are dangerous if swallowed. Keep all parts out of reach of children and animals.
2. Store the Smart Battery and remote controller in a cool, dry place away from direct sunlight to ensure the built-in LiPo battery does NOT overheat. Recommended storage temperature: between 22°C and 28°C (71°F and 82°F) for storage periods of more than three months. Never store in environments outside the temperature range of -10°C to 45°C (14°F to 113°F)
3. DO NOT allow the camera to come into contact with or become immersed in water or other liquids. If it gets wet, wipe dry with a soft, absorbent cloth. Turning on a drone that has fallen in water may cause permanent component damage. DO NOT use substances containing alcohol, benzene, thinners, or other flammable substances to clean or maintain the camera. DO NOT store the camera in humid or dusty areas.
4. Check every drone part after any crash or serious impact. If there are any problems or questions, contact Potensic support.
5. Regularly check the Battery Level Indicators to see the current battery level and overall battery life. The battery is rated for 250 cycles. It is not recommended to continue use afterward.
6. Make sure to transport the drone with the arms folded when powered off.
7. Make sure to transport the remote controller with antennas folded when powered off.
8. The battery will enter sleep mode after long-term storage. Charge the battery to exit from sleep mode.
9. Store the drone, remote controller, battery, and charger in a dry environment.
10. Remove the battery before servicing the drone (e.g., cleaning or attaching and detaching the propellers). Make sure that the drone and the propellers are clean by removing any dirt or dust with a soft cloth. Do not clean the drone with a wet cloth or use a cleanser that contains alcohol. Liquids can penetrate the drone housing, which can cause a short circuit and destroy the electronics.
11. Make sure to turn off the battery to replace or to check the propellers.

» 9.4 Troubleshooting Procedures

1. Why can the battery not be used before the first flight?

The battery must be activated by charging before using it for the first time.

2. No function

Check if the smart battery and the remote controller are activated by charging. If the problem persists, contact Potensic support.

3. Power-on and start-up problems

Check if the battery has power. If yes, contact Potensic support if it cannot be started normally.

4. SW update issues

Follow the instructions in the user manual to update the firmware. If the firmware update fails, restart all the devices and try again. If the problem persists, contact Potensic support.

5. Shutdown and power-off problems

Contact Potensic support.

6. How to detect careless handling or storage in unsafe conditions

Contact Potensic support.

» 9.5 Risk and Warnings

When the drone detects a risk after powering on, there will be a warning prompt on PotensicPro. Pay attention to the list of situations below.

1. If the drone status is not suitable for takeoff.
2. If the compass experiences interference and needs to be calibrated.
3. Follow the on-screen instructions when prompted.

» 9.6 Disposal



Observe the local regulations related to electronic devices when disposing of the drone and remote controller.

Battery Disposal

Dispose of the batteries in specific recycling containers only after a complete discharge. DO NOT dispose of the batteries in regular trash containers. Strictly follow the local regulations regarding the disposal and recycling of batteries.

Dispose of a battery immediately if it cannot be powered on after over-discharging.

If the Smart Battery cannot be fully discharged, contact a professional battery disposal/recycling agency for further assistance.

» 9.7 C0 Certification

ATOM (DSDR04C) is compliant with C0 certification requirements.

Model:	DSDR04C
UAS Class:	C0
Maximum Take-Off Mass (MTOM):	242 g
Maximum Propeller speed:	18000 RPM

MTOM Statement

The MTOM of ATOM (Model DSDR04C), including the Smart Battery, Propellers, and a microSD card, is 242 g to comply with C0 requirements.

Users must follow the instructions below to comply with the MTOM requirements for each model:

1. DO NOT add any payload to the drone except the items listed in the List of Items including qualified accessories section.
2. DO NOT use any non-qualified replacement parts, such as intelligent flight batteries or propellers, etc.
3. DO NOT retrofit the drone.

List of Items, including qualified accessories

For C0

Item	Model Number	Dimensions	Weight
Propellers	DSDR04C-PPS	119.4×63.8 mm (Diameter×Thread Pitch)	0.65 g (each piece)
Smart Battery	DSBT02B	83.6×42.5×34.6 mm	Approx. 84 g
microSD Card*	N/A	15×11×1.0 mm	Approx. 0.3 g

List of Spare and Replacement Parts

For C0

1. ATOM Propellers
2. ATOM Smart Battery

Remote Controller Warnings

Model: DSRC02A

If the remote controller is disconnected from the drone, the PotensicPro App will prompt an on-screen note, and the drone will perform the preset behavior when the remote controller signal is lost. The remote controller will shut down automatically after 20 minutes of no operation.

- Avoid interference between the remote controller and other wireless equipment. Make sure to turn off the Wi-Fi on nearby mobile devices. Land the drone as soon as possible if there is interference.
- DO NOT operate the drone if lighting conditions are too bright or dark when using a mobile phone to monitor the flight. Users are responsible for correctly adjusting the display brightness when using the monitor in direct sunlight during flight operation.
- Release the control sticks or press the flight pause button if an unexpected operation occurs.

EASA Notice

Make sure to read the Drone Information Notices document included in the package before use.

Visit the link below for more EASA notice information on traceability.

<https://www.easa.europa.eu/en/document-library/general-publications/drones-information-notices>

Original instructions

This manual is provided by Shenzhen Potensic Intelligent Co., Ltd and the content is subject to change.

Address: 7/F, Building A5, Nanshan Intelligent Park, Nanshan District, Shenzhen, CN

» 9.8 EU Compliance Notice

EU Compliance Statement: Shenzhen Potensic Intelligent Co., Ltd. declares that the device ATOM complies with the essential requirements and other relevant provisions of Directive 2014/53/EU and Regulation (EU) 2019/945.

The EU Declaration of Conformity (DoC) is available for download on our official website:

<https://www.potensic.com/downloads.html> (Go to the Download Center, select "ATOM", and download the EU Declaration of Conformity from the ATOM DoC file list.)

EU Representative Address: Ocean Trading GmbH, Anhalter Str.10, 10963, Berlin, Germany

E-mail: ear@oceantrading.de

Tel/Mobile: 0049-30/25758899

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 cm between the radiator & your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

IC Statement:

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

(1) This device may not cause interference.

(2) This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

(1) L'appareil ne doit pas produire de brouillage;

(2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

ISED Radio Frequency Exposure Statement:

The device has been evaluated to meet general RF exposure requirements. The device can be used in mobile exposure conditions. The min separation distance is 20 cm.

ISED Déclaration d'exposition aux radiofréquences:

L'appareil a été évalué pour répondre aux exigences générales en matière d'exposition aux RF. L'appareil peut être utilisé dans des conditions d'exposition mobiles. La distance de séparation minimale est de 20 cm.

Operation of this device is restricted to indoor use only. (5150-5250MHz)

Le fonctionnement de cet appareil est limité à une utilisation en intérieur uniquement. (5150-5250MHz)

For Canada: The frequency stability of all transmission frequencies of U-NII-1, U-NII-3 meets the requirements of RSS-Gen Issue 5, Section 6.11, and the manufacturer states that their transmissions remain within the U-NII-1, U-NII-3 bands.

Pour le Canada: La stabilité de fréquence de toutes les fréquences de transmission U-NII-1, U-NII-3 répond aux exigences de la norme CNR-Gen, édition 5, section 6.11, et le fabricant déclare que leurs transmissions restent dans les bandes U-NII-1, U-NII-3.

EU Conformity Statement:



This product and - if applicable - the supplied accessories too are marked with "CE" and comply therefore with the applicable harmonized European standards listed under the RED Directive 2014/53/EU, the RoHS Directive 2011/65/EU and Amendment (EU)2015/863.



2012/19/EU (WEEE directive): Products marked with this symbol cannot be disposed of as unsorted municipal waste in the European Union. For proper recycling, return this product to your local supplier upon the purchase of equivalent new equipment, or dispose of it at designated collection points. For more information see: www.recyclethis.info



2023/1542/EU (battery directive): This product contains a battery that cannot be disposed of as unsorted municipal waste in the European Union. See the product documentation for specific battery information. The battery is marked with this symbol, which may include lettering to indicate cadmium (Cd), lead (Pb), or mercury (Hg). For proper recycling, return the battery to your supplier or to a designated collection point. For more information see: www.recyclethis.info

Potensic ATOM Drone/飞行器

Model/型号: DSDR04C

FCC ID: 2AYUO-DSDR04B

IC ID: 29543-DSDR04C

CMIIT ID: 25Z449G8G613

Nominal Voltage/标称电压: 7.7 V

Max Charge Voltage/充电限制电压: 8.8 V

Rated Capacity/额定容量: 2230 mAh

Rated Energy/额定能量: 17.18 Wh

Input/输入: 5 V $\overline{\text{m}}$ 3 A



R 214-113197



R-R-SPIc-DSDR04C

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.



Ocean Trading GmbH Anhalter Str.10, 10963,
Berlin, Germany
E-mail: ear@oceantesting.de
Tel/Mobile: 0049-30/25758899



OCEAN SUPPORT LTD Amber, Office 119,
Luminous House 300 South Row, Milton keynes,
MK9 2FR
E-mail: info@topoxun.com

Importer: Potensic SAS

EU contact address: 7 Place de l'Hôtel de Ville, 93600, Aulnay-sous-Bois Email: eu@potensic.com

Manufacturer/制造商: Shenzhen Potensic Intelligent Co., Ltd./深圳市博坦智能科技有限公司

Address/地址: 7/F, Building A5, Nanshan Intelligent Park, Nanshan District, Shenzhen, CN/深圳市南山区南山智园 A5 栋 7 层

Web: <https://www.potensic.com>

Email: support@potensic.com

MADE IN CHINA

Potensic Remote Controller/遥控器

Model/型号: DSRC02A

FCC ID: 2AYUO-DSRC02A

IC ID: 29543-DSRC02A

CMIIT ID: 25Z449G8P108

Nominal Voltage/标称电压: 3.7 V

Max Charge Voltage/充电限制电压: 4.2 V

Rated Capacity/额定容量: 3000 mAh

Rated Energy/额定能量: 11.1 Wh

Input/输入: 5 V $\overline{\text{m}}$ 1 A



R 215-JRA026



R-C-SPIc-DSRC02A



Points de collecte sur www.quefairemesdechets.fr
Privilégiez la réparation ou le don de votre appareil !



DANGER! Only suitable for ages 16+

GEFAHR! Nur für Personen ab 16 Jahren geeignet

PERICOLO! Adatto solo a persone di età superiore ai 16 anni

DANGER! Convient uniquement aux personnes âgées de plus de 16 ans

PERIGRISO! Solo apto para mayores de 16 años

GEVAAR! Alleen geschikt voor personen van 16 jaar en ouder

VARNING! Endast lämpligt för personer på 16 år eller äldre

PERIGRISO! Adequado apenas para maiores de 16 anos

警告! 本产品仅供 16 岁及以上人士使用

警告! 本产品仅供 16 歲及以上人士使用

警告! この製品の対象年齢は 16 歳以上です

警告! 본 제품은 16세 미만 사용 금지



Warning! High-speed spinning propellers can cause serious injury!

Warnung! Schnell drehende Propeller können schwere Verletzungen verursachen!

ATTENZIONE! Le eliche che girano ad alta velocità possono causare gravi lesioni!

ATTENTION! Les hélices tournant à grande vitesse peuvent provoquer des blessures graves!

¡ADVERTENCIA! ¡Las hélices girando a alta velocidad pueden causar lesiones graves!

WAARSCHUWING! Snel ronddraaiende propellers kunnen ernstig letsel veroorzaken!

VARNING! Högfärdiga snurrande propeller kan orsaka allvarliga skador!

ATENÇÃO! Hélices girando em alta velocidade podem causar ferimentos graves!

警告! 高速运转的螺旋桨可能造成严重伤害!

警告! 高速運轉的螺旋槳可能造成嚴重傷害!

警告! 高速で回転しているプロペラを触ると重大な傷害を引き起こすリスクがあります!

경고! 고속으로 회전하는 프로펠러는 심각한 부상을 초래할 수 있습니다!



CAUTION! Please read the User Manual and relevant flight safety guidelines carefully before using the drone.

ACHTUNG! Bitte lesen Sie vor der Verwendung der Drohne sorgfältig das Benutzerhandbuch sowie die entsprechenden Flugsicherheitsrichtlinien.

ATTENZIONE! Prima di utilizzare il drone, leggere attentamente il Manuale d'uso e le linee guida sulla sicurezza del volo.

ATTENTION! Veuillez lire attentivement le manuel de l'utilisateur et les consignes de sécurité relatives au vol avant d'utiliser le drone.

¡PRECAUCIÓN! Lea atentamente el Manual de Usuario y las pautas de seguridad de vuelo antes de usar el drone.

LET OP! Lees de Gebruikershandleiding en de relevante veiligheidsrichtlijnen voor vluchten grondig door voordat u de drone gebruikt.

VARNING! Läs användarhandboken och relevanta flygsäkerhetsriktlinjer noggrant innan du använder drönaren.

CUIDADO! Leia atentamente o Manual do Usuário e as diretrizes de segurança de voo relevantes antes de usar o drone.

注意! 使用飞行器之前, 请熟读用户手册及相关飞行安全指南。

注意! 使用飞行器之前, 請熟讀使用者手冊及相關飛行安全指南。

注意! ドローンを使用する前に、取扱説明書および関連する飛行安全ガイドをよくお読みください。

주의! 드론을 사용하기 전에 사용자 설명서와 관련 비행 안전 지침을 숙독하시기 바랍니다.

If you have any questions or suggestions about this document, please contact Potensic by sending a message to support@potensic.com.

Potensic is a trademark of Shenzhen Potensic Intelligent Co., Ltd.

Copyright © 2025 Potensic