ANTIGRAVITY A1

User Manual





V1.0

Reading Notes

Legend

Safety Precautions

Tips

Reference and glossary

Read Before Your First Flight

Read the following documents before the first flight for your safety:

1. Safety Guidelines
2. Quick Start Guide
3. User Manual

It is strongly recommended to read the above-mentioned documents and watch the video tutorial before using our product for the first time. Follow the instructions provided in the quick start guide.

Video Tutorials

Scan the QR code to watch video tutorials for the safe and proper use of the product.

https://www.antigravity.tech/guide/followme

Download the Antigravity App

Download the Antigravity App and follow the prompted instruction to activate your drone and other devices before first use. Scan the QR code above to download the Antigravity App.

Note that the flight altitude of the drone is restricted to 30 m (98.4 ft) and a range of 50 m (164 ft), if the drone has not been linked to the Antigravity App upon the first use.

Disclaimer

This document is subject to change without prior notice as products and firmware are updated. The figures referenced in the manual are for illustrative purposes only and may not reflect the actual product. Users should refer to the physical product.

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Contents

Product Overview 1
Introduction 1
Key Feature Highlights 1
Product Overview 2
A1 Drone 2
Front (Nose) View 2
Rear (Tail) View 3
Watch Remote and Ring Remote 3
Watch Remote 3
Ring Remote 4
Prepairing for Flight 4
Prepairing the A1 Drone 4
Preparing the Watch Remote 6
Preparing the Ring Remote 8
Activating the Drone 9
Firmware Update 10
Connecting Watch Remote and Ring Remote 10
Connect A1 Drone to Watch Remote 10
Takeoff and Landing 11
Pre-flight Checklist 11
Takeoff 12
Landing 15
Smart RTH 15
Landing Protection 16
Precision Landing 16
Manual Landing 18
Post-Flight Checklist 18
Flight Safety and Control 19
Flight Environment Guidelines 19
Flight Protection 20
Flight Altitude and Distance Limits 20
Flight Safety Operating Rules 21
RTH and Obstacle Avoidance Guidelines 22
Flight Control 23
Manual Mode 23
Horizontal Flight 23
Adjusting the Drone's Heading 25
Ascend or Descend 25
Emergency Braking 26
Drag-to-Fly 27
How to Enable Drag-to-Fly 27
Changing Orientation by Dragging 28
Pull In and Push Out 28
How to Disable Drag-to-Fly 29

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Drone 29
Flight Mode 29
Flight Indicators 30
Before Taking Off 30
After Take-off 31
RTH (RTH) 32
Introduction to RTH 32
Home Point 32
Refreshing the Home Point 33
RTH Procedure 34
Optimal RTH Flight Path 35
Manually Triggering RTH 35
RTH Safety Strategies 37
RTH Safety Risk Notices 37
Obstacle Avoidance 38
Obstacle Avoidance Overview 38
Obstacle Avoidance Safety 38
Disabling Obstacle Avoidance 39
The obstacle avoidance is enabled by default. And it can only be disabled in Manual mode. If you need to disable it, turn it off in the “Flight & Safety Setting“ from the Watch Remote menu. 39
Obstacle Avoidance Behavior 40
Full-Coverage Propeller Guards 41
How to Install 41
Propellers 43
How to Replace Propellers 43
Flight Battery 45
Flight Battery Safety Information 45
Activating the Flight Battery 46
Using the Flight Battery 46
Charging the Flight Battery 48
Battery Level Indicators 48
Transferring Footage 49
Quick Reader 49
Transfer Footage from Antigravity App 50
Vision and Infrared Sensing System 50
Main Features 50
Vision Sensing System Limitations 51
Vision and Infrared Sensing System Detection Range 51
Omnidirectional Obstacle Avoidance Detection Range 52
Flight Recorder 53
Watch Remote 53
Buttons and Ports 53
Watch Remote 53
Power Button 54
Multi-Function Button 54
Status LED 55
Connecting the Drone 55
Linking the Watch Remote to the Drone 55

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Controlling the Drone 56
Live View Page 56
Video Shooting Settings 58
Camera 3A Parameter Settings 58
Photo and Video Capture 58
Screen Lock 58
Settings 58
Watch Remote Firmware Update 58
Before You Begin 59
Watch Remote Firmware Update Instructions 59
Troubleshooting 59
Watch Remote Usage Precautions 60
Ring Remote 60
Charging and Battery Indicator 60
Charging 60
Indicator Light 61
How to Wear 61
Wearing the Ring Remote on Your Finger 61
Mounting on a Selfie Stick or Handlebar 62
How to Use the Ring Remote 62
Power On / Off 62
Connecting the Drone 62
Controlling the Drone 62
Video Recording 63
Ring Remote Firmware Update 63
Ring Remote Usage Precautions 64
Antigravity App 64
Intelligent Flight 65
Deep Track 65
Tracking Modes 65
Using Deep Track 66
Wave-to-Track 68
RTH During Tracking 69
Precautions 70
Sky Genie 72
Introduction to Sky Genie 72
Using Sky Genie 73
Connection Loss Behaviors 75
Product Specifications 76
A1 Drone 76
Watch Remote 80
Ring Remote 81

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Product Overview

Introduction

Antigravity A1 is a revolutionary consumer drone that combines advanced hand-eye coordinated control technology with an immersive flight experience. Paired with the Antigravity Watch Remote and Antigravity Ring Remote, users can enjoy FreeMotion flying, perceive flight attitude in real time, and achieve precise control and panoramic-view aerial cinematography.

Key Feature Highlights

- **One-Tap Takeoff from the Watch:**

  No additional remote controller is required — simply raise your wrist and tap the watch face to wake the drone and launch with a single tap. Quick landing, Return to Home (RTH), and other core commands are also supported.

- **Ring Remote Control:**

  Wave your hand to control ascent, descent, and orbiting — reduces the traditional joystick learning curve. The Ring Remote features a lightweight design with one-tap capture control.

- **Precise GPS Tracking:**

  Once Deep Track is enabled, the drone automatically locks onto the user wearing the Watch Remote, maintaining a stable following distance and framing angle whether biking, skiing, or hiking.

- **Live Preview:**

  The drone's video feed is streamed in real time to the Antigravity Watch Remote over a low-latency wireless link, with key flight parameters displayed synchronously on the watch screen.

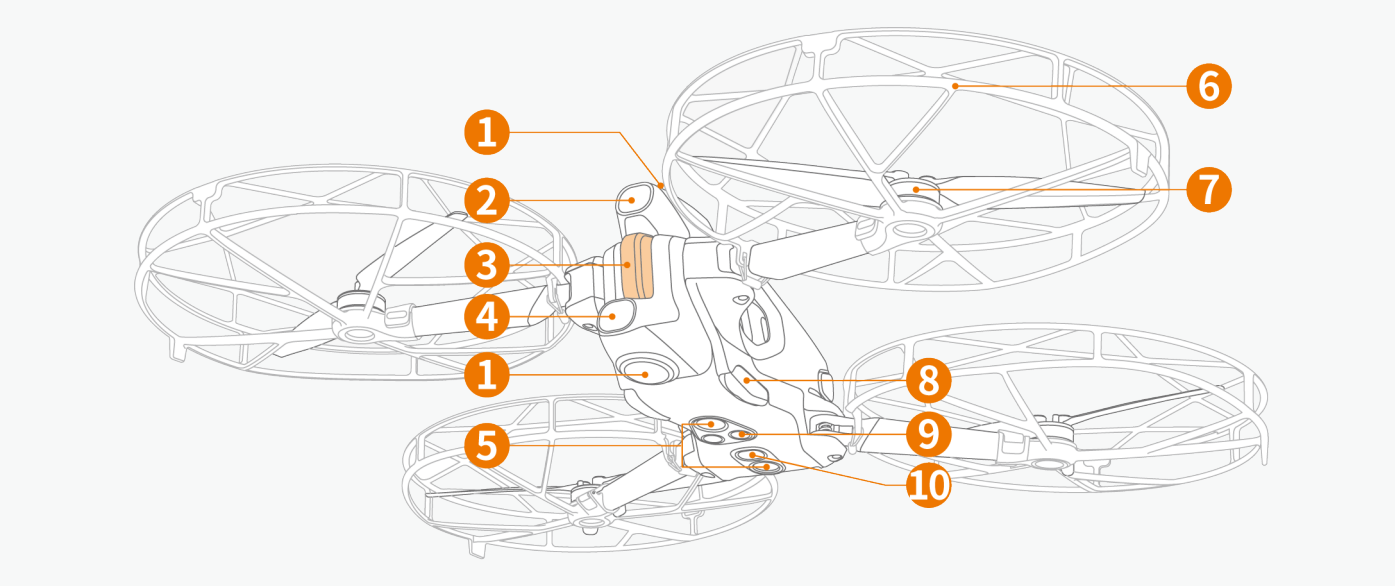
- The drone's maximum flight speed is measured near sea level in windless conditions. The maximum flight time is measured when flying at constant speed in windless conditions.
- Some countries and regions do not support the 5.8 GHz band; in these areas the drone will automatically disable that band. Please understand local laws and regulations before use. The 5.1 GHz band is only available in countries and regions where local laws and regulations permit.
- The high capacity flight battery is not available in all countries and regions. Please visit the official store for more information.
- When used with the Full-Coverage Propeller guard, the takeoff weight will exceed 249 g. Please comply with local laws and regulations regarding takeoff weight.

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Product Overview

A1 Drone

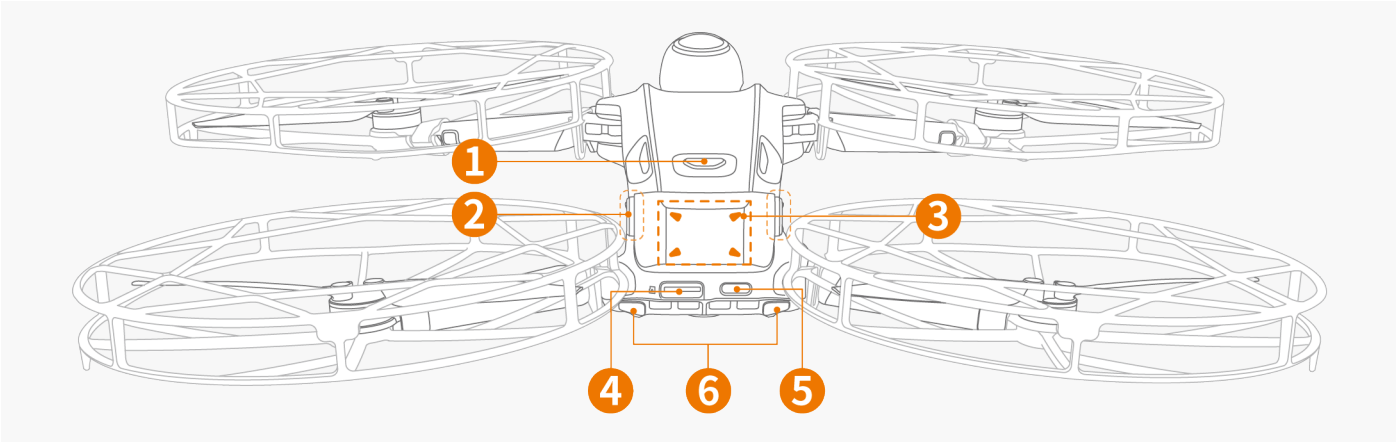
Front (Nose) View



No.	Description	No.	Description
1	360° panoramic camera lens	6	Full-Coverage Propeller Guards
2	Forward sensing lens	7	Motor
3	Nose indicator light	8	Landing gear
4	Vision sensing lens	9	Downward infrared sensor
5	Downward sensing camera lens	10	Fill light

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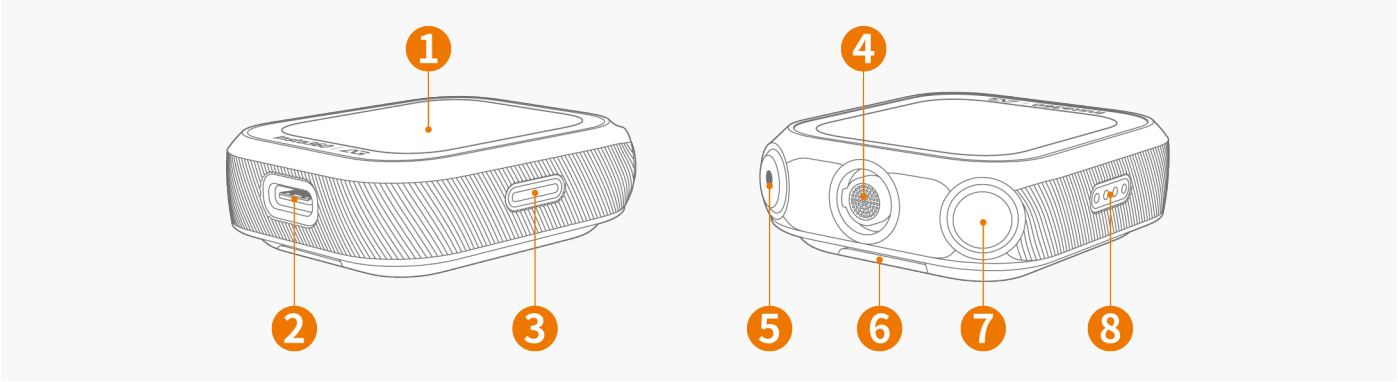
Rear (Tail) View



No.	Description	No.	Description
1	Power button	4	Memory card slot
2	Battery latch	5	Type-C port
3	Flight battery level indicator	6	Flight status indicator light

Watch Remote and Ring Remote

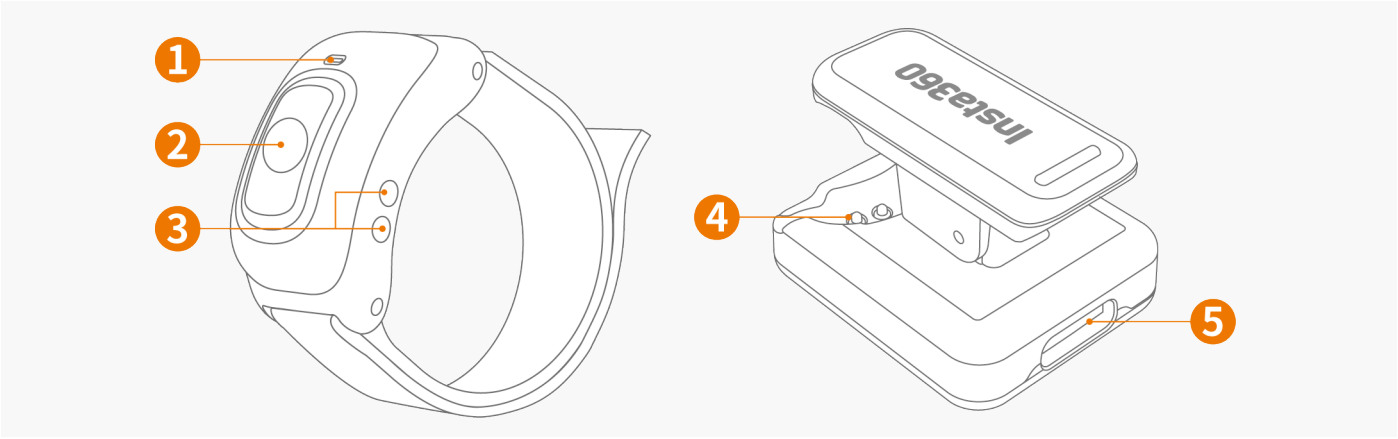
Watch Remote



No.	Description	No.	Description
1	Touchscreen	5	Shutter / Emergency Brake Button
2	Type-C port	6	Buckle
3	Status indicator	7	Power button
4	Microphone*	8	Speaker

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Ring Remote



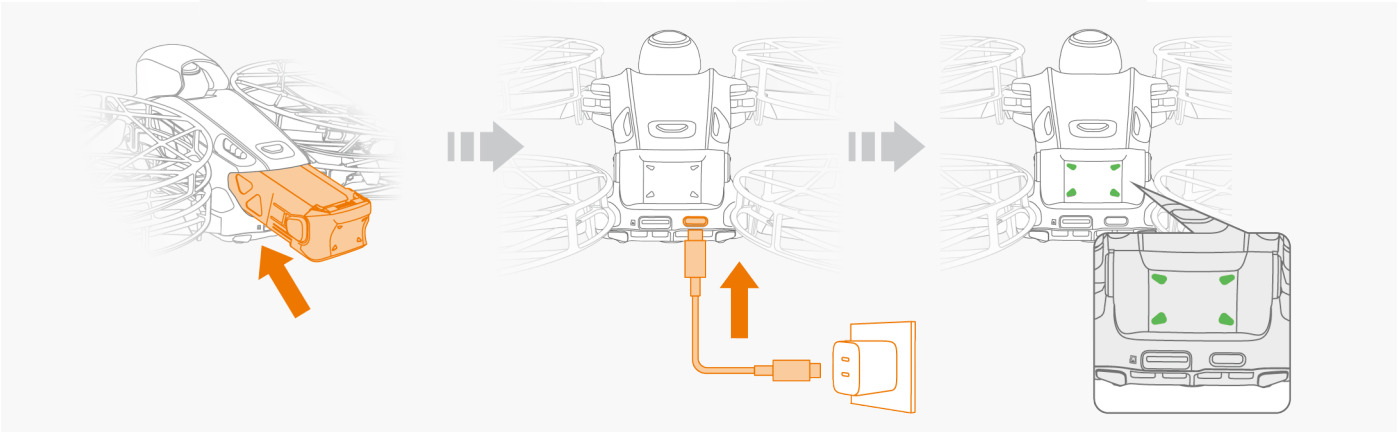
No.	Description	No.	Description
1	Indicator light	4	Ring charger clip contacts
2	Shutter	5	Ring charger USB-C port
3	Ring charging contacts		

Prepairing for Flight

Prepairing the A1 Drone

The drone ships in a ready state. Follow the steps below to prepare for your first flight.

1. The flight battery in the drone is in a dormant state upon delivery. You must activate the battery before using it for the first time. Insert the flight battery into the battery compartment, and then connect it to the drone's USB-C charging port using a charging cable. The battery indicator light will blink green when the battery is activated.

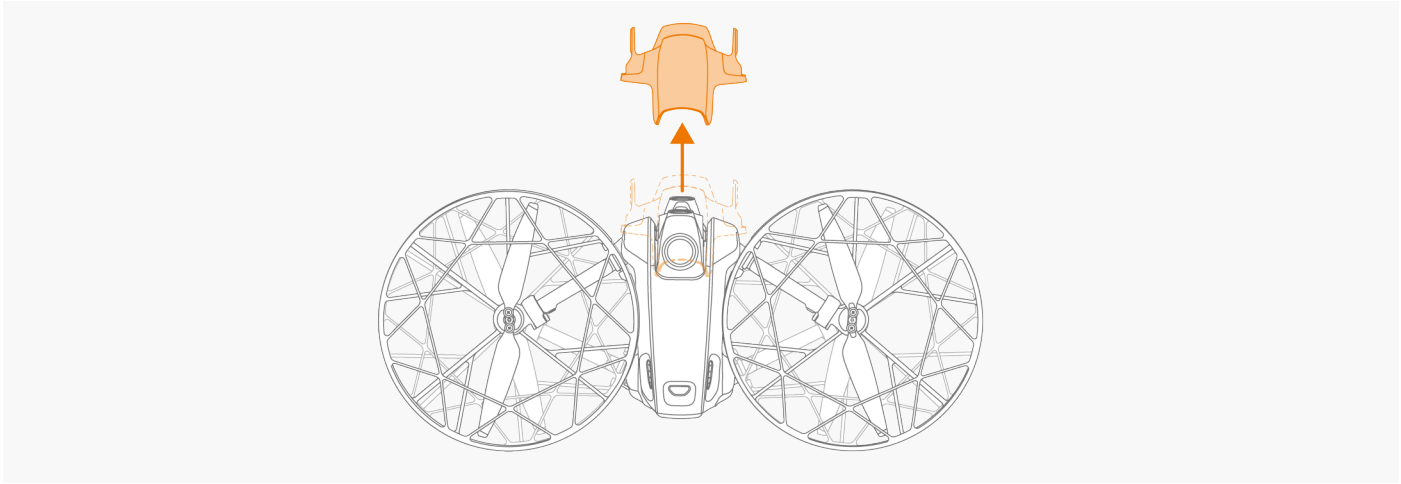


Note: Before first use, ensure the battery level is at 3 bars or above.

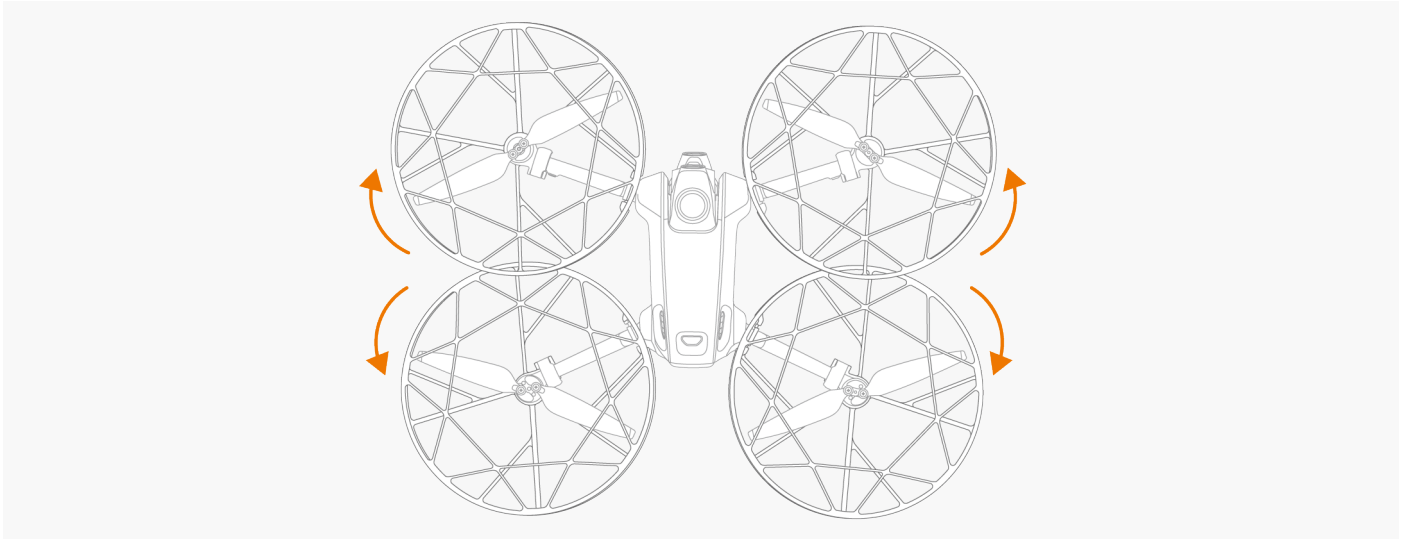
Tip: Before removing or inserting the flight battery, fold the drone's arms first.

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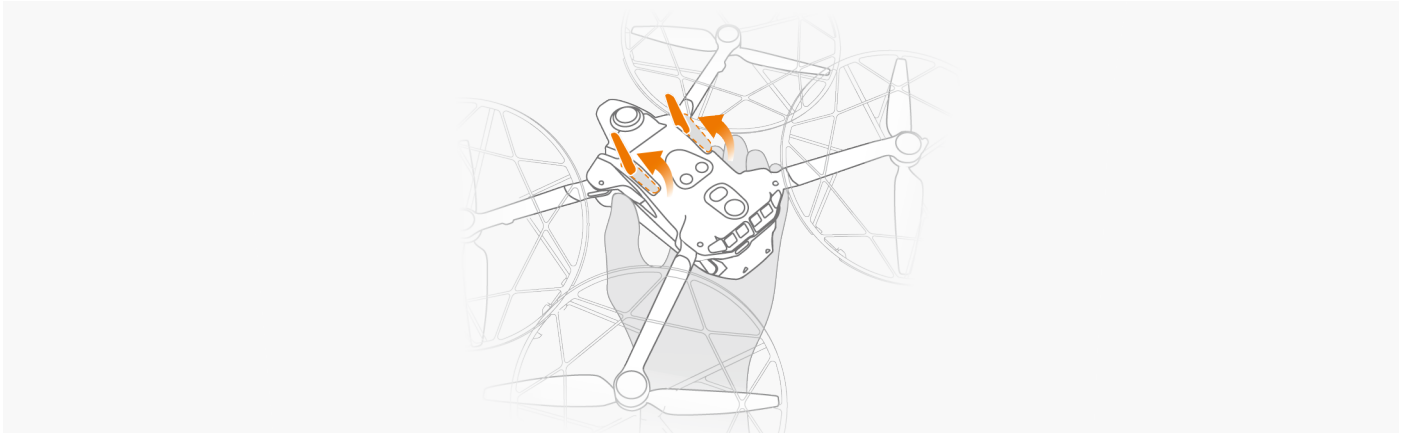
2. Remove the lens cover located at the front of the drone.



3. Unfold the drone's rear arms first, then unfold the front arms, and make sure the propellers are fully extended.

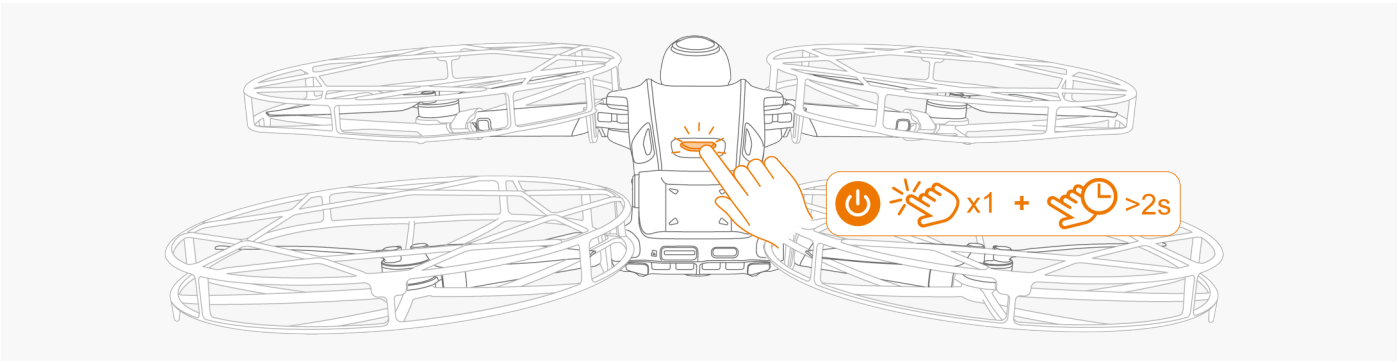


4. Flip the drone over and manually unfold the landing gear located on the bottom of the drone.



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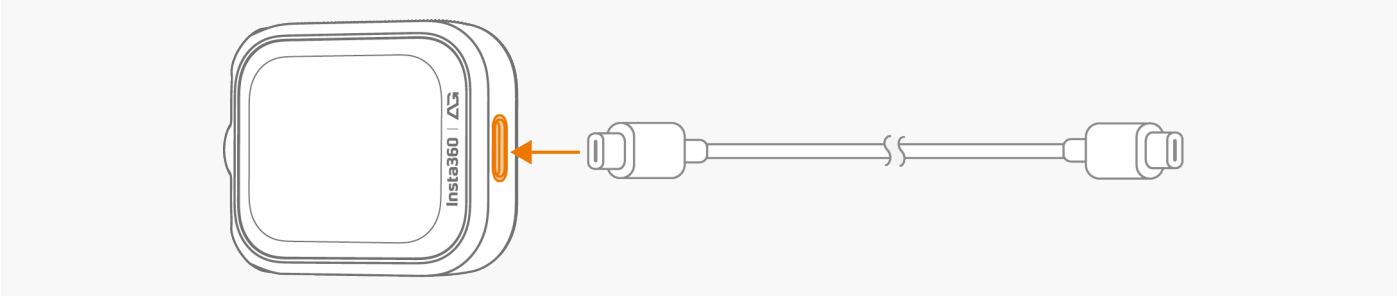
5. Press once and then press and hold the power button to power on the drone.



- For the best charging experience, we recommend the Antigravity A1 series USB-C charger or another charger that supports the USB PD fast-charging protocol.
- For the best charging performance, use a high-power charger (65W or above).
- The drone charging port has a maximum input voltage of 12 V.
- Before powering on the drone, make sure all stickers are removed from the body, both front and rear arms are unfolded, and the landing gear is deployed.

Preparing the Watch Remote

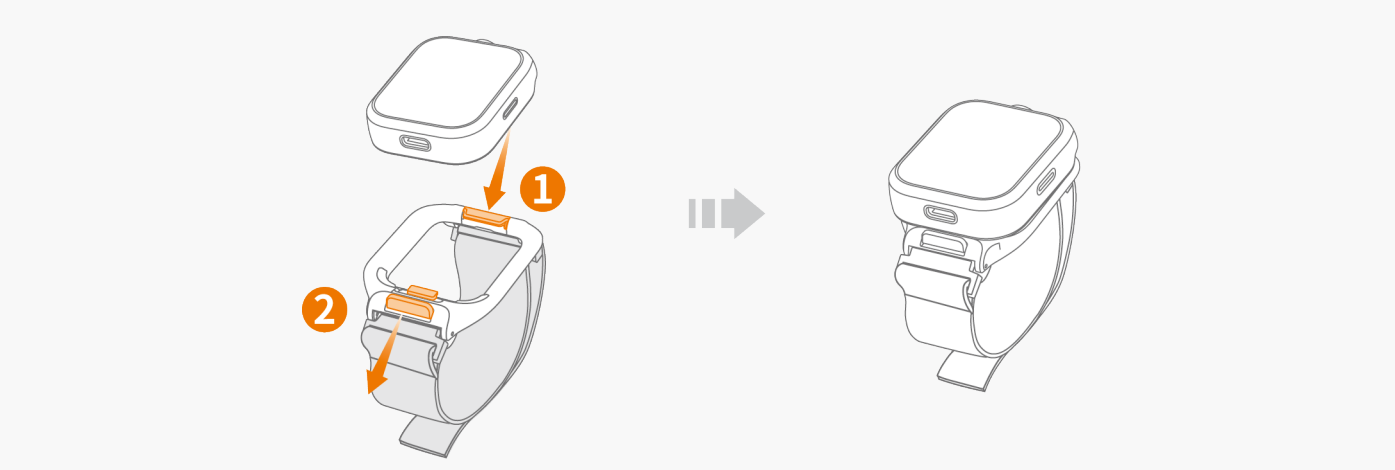
1. Connect the Watch Remote to a charger via the USB-C port to charge. The touchscreen will display a charging-level indicator.



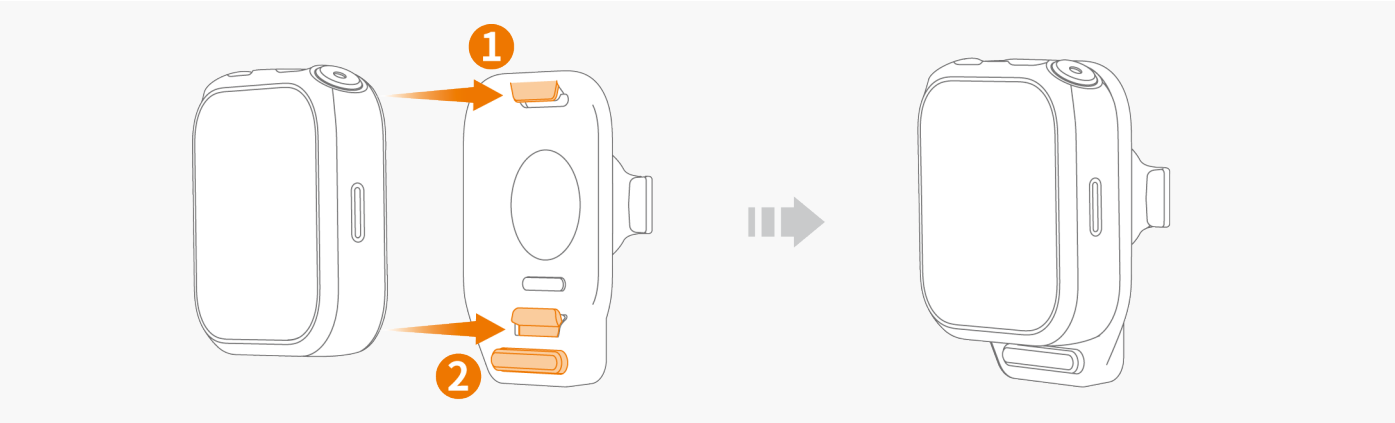
- We recommend using a 5V/2A power adapter to charge the watch.
- Keep the port dry throughout the charging process.

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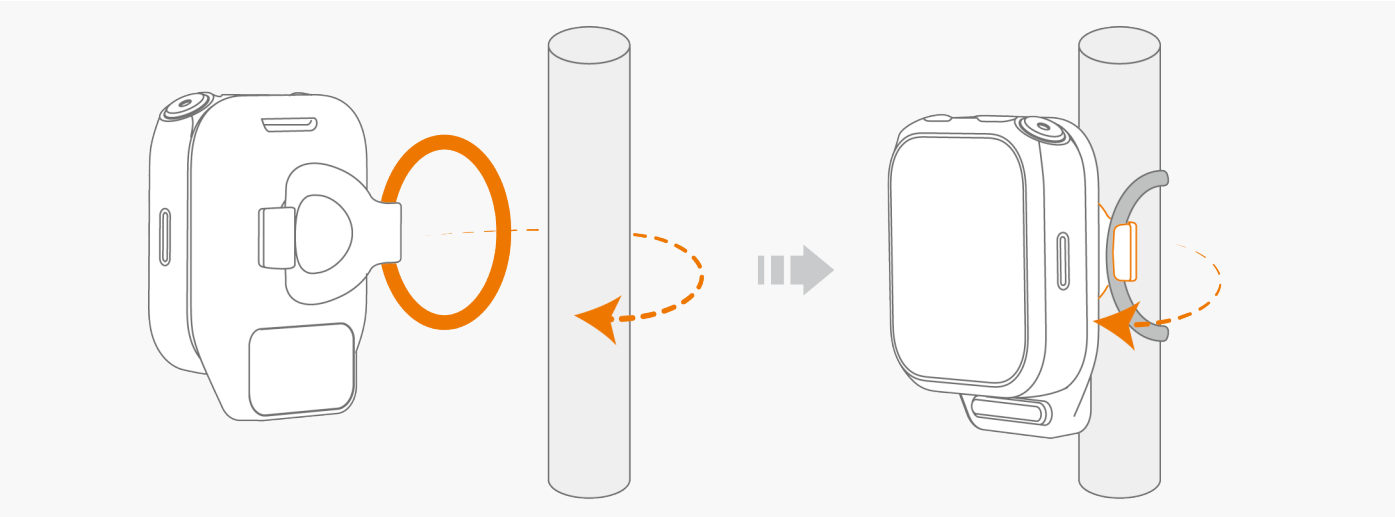
2. First insert buckle ① on the wristband into the quick-release slot on one end of the Watch Remote, then pull out buckle ② and insert it into the slot on the other end. Finally, wear it on your wrist. To remove, pull buckle ② outward to detach the Watch Remote.



3. To mount the Watch Remote on a selfie stick, bicycle, motorcycle, or similar accessory: press the button on the Watch Remote base, then insert buckles ① and ② on each end into the quick-release slots on the Watch Remote. To remove, press the button to release it.



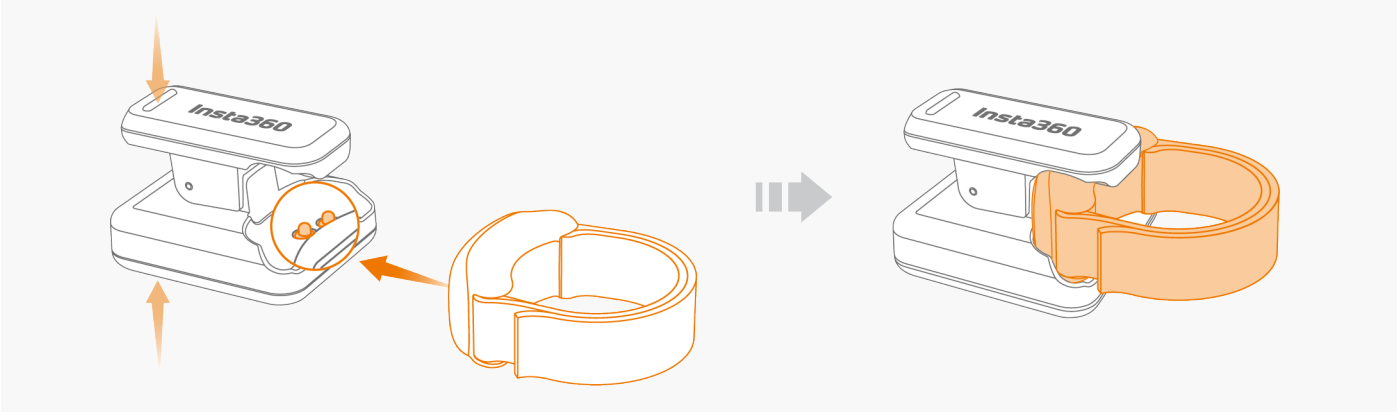
After clipping the Watch Remote into the base, choose an appropriate strap to attach it to a selfie stick, bicycle handlebar, or motorcycle handlebar.



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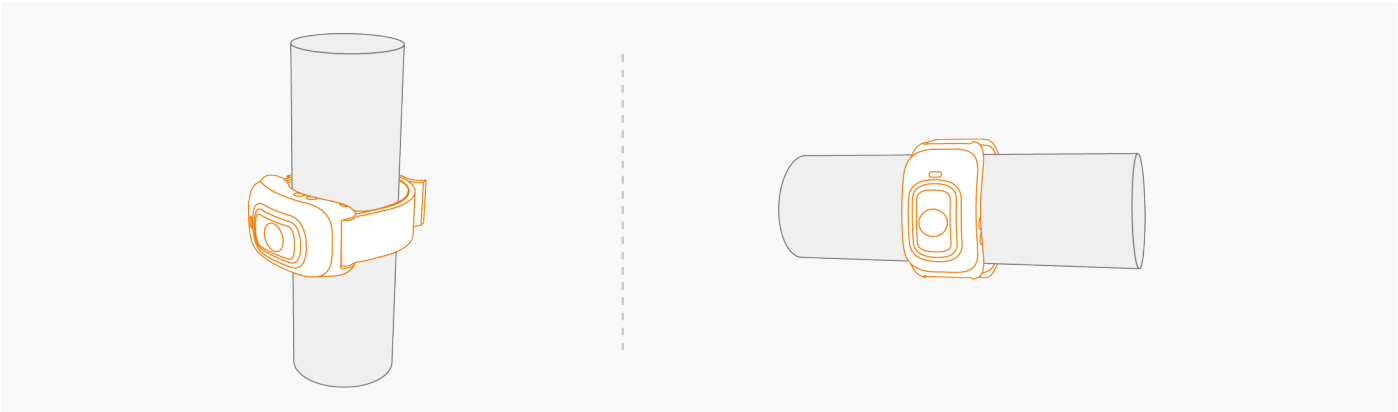
Preparing the Ring Remote

1. Place the Ring Remote into the charging clip and make sure the charging contacts are fully in contact. Connect a 5V=1A power adapter to the charging clip's USB-C port. A full charge takes about 1.5 hours and provides about 5 hours of operating time.



Note: If you press a button on the Ring Remote out of the box and the indicator light does not turn on, charge it for a while before using it.

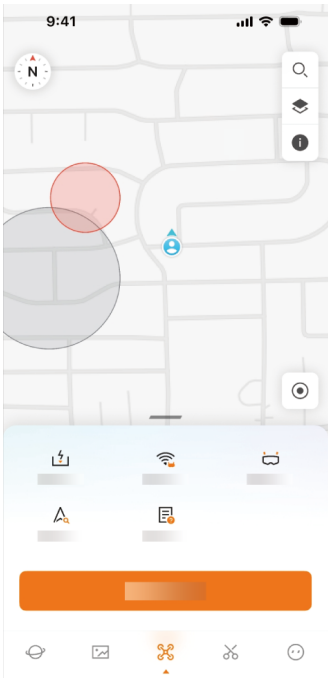
2. To mount the Ring Remote on a selfie stick or bicycle handlebar, first undo the hook-and-loop strap on the Ring Remote, then wrap the strap around the selfie stick or handlebar and fasten the hook-and-loop closure.



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Activating the Drone

To comply with drone regulations in various countries and regions, you must activate the A1 drone and the Watch Remote through the Antigravity App before using them for the first time. Power on the A1 drone and the Watch Remote, download the Antigravity App, and make sure Wi-Fi and Bluetooth are enabled on your phone. Open the Antigravity App and follow the on-screen instructions to complete activation.



- Perform activation in an environment with a stable network connection; otherwise, activation may fail.
- Have your personal information ready before activating.
- After activation, you can purchase product insurance services within 48 hours.
- If activation is not completed, flight performance will be limited.

- Users operating drones in Mainland China must comply with national laws and regulations on civil drone Real-Name Registration. Real-Name Registration must be completed before any flight. Relevant regulations include:
  - Article 10 of Chapter 2 of the Interim Regulations on the Administration of Unmanned Aircraft Flights
  - Article 92.205 of the Operating Rules for Civil Unmanned Aircraft
- Operating a drone without completing Real-Name Registration is a violation. Those responsible will be subject to administrative penalties under the law, including but not limited to orders to rectify immediately, fines, and confiscation of the drone. In serious cases, further legal liability may also be pursued.
- Users operating drones in Mainland China must first download the UOM App via the phone's built-in app market (App Store or major Android app markets), or visit https://uas.caac.gov.cn, to complete user registration, identity verification, and entry of the drone information (e.g., serial number) into the system. Additionally, activate the device and complete Real-Name Registration in the Antigravity App.
- When ownership of the drone changes (including sale, transfer, or gift) or the drone is no longer in long-term use, the original owner should promptly unlink it via the UOM App. Otherwise, in the event of violations or infringements, the original owner may face civil liability or administrative investigation risk; in serious cases involving subjective intent, the owner may also bear corresponding legal liability.

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Firmware Update

It is important to keep your firmware up to date to ensure optimal performance and compatibility with any new features or improvements.

Make sure to regularly check for any firmware update by launching the Antigravity App, check the notifications and follow the on-screen instructions from the App or the menu of the Watch Remote to perform the firmware update.

For more information about how to update the firmware, refer to the corresponding section in the Appendix.

Connecting Watch Remote and Ring Remote

All devices in the flight kit are paired at the factory and normally require no connection setup. If a device fails to connect properly or if you have purchased a new device, follow the steps below to connect.

Connect A1 Drone to Watch Remote

1. Ensure all devices are powered on.
2. Press and hold the power button on the A1 drone to power it on.
3. Press and hold the power button on the Watch Remote to power it on. From the main screen, tap Connect.



4. Once pairing is successful, you can view the live preview from the drone on the Watch Remote. The Watch Remote will also vibrate to indicate successful pairing.



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5. After the drone and Watch Remote are paired, the Watch Remote will prompt you to connect the Ring Remote. Follow the on-screen instructions on the watch to connect your Ring Remote.



6. Once the Ring Remote is successfully connected to the Watch Remote, the Ring's indicator will turn solid blue and emit a brief vibration.



Tip: Before pairing, make sure there are no other wireless control devices nearby (such as Vision Goggles or a remote controller); otherwise, the drone will not be able to connect to the watch.

Takeoff and Landing

This chapter explains how to perform basic takeoff and landing operations.

Pre-flight Checklist

Pre-flight inspection of the drone is essential for ensuring flight safety and reducing the risk of accidents. Always complete the pre-flight checklist before every takeoff to ensure safe operation.

1. Check that the flight battery, propellers, and Full-Coverage Propeller Guards are properly installed. For instructions on installing the battery correctly, refer to the Using the Flight Battery section.
2. Check that the memory card is installed in the drone.
3. Check that the remote controllers, flight battery, and mobile device are sufficiently charged.
4. Check that the drone's arms are fully unfolded, and all the propeller guards are attached firmly on the arms.
5. Check that the landing gear deploys properly.
6. Check that the motors start properly after being unlocked.
7. Check that the Antigravity App is running properly.
8. Ensure the drone and remote controllers are updated to the latest firmware versions.
9. Ensure that all cameras and sensors on the drone are clean.
10. Always use original accessories. Using non-original accessories may pose a safety hazard to the drone.

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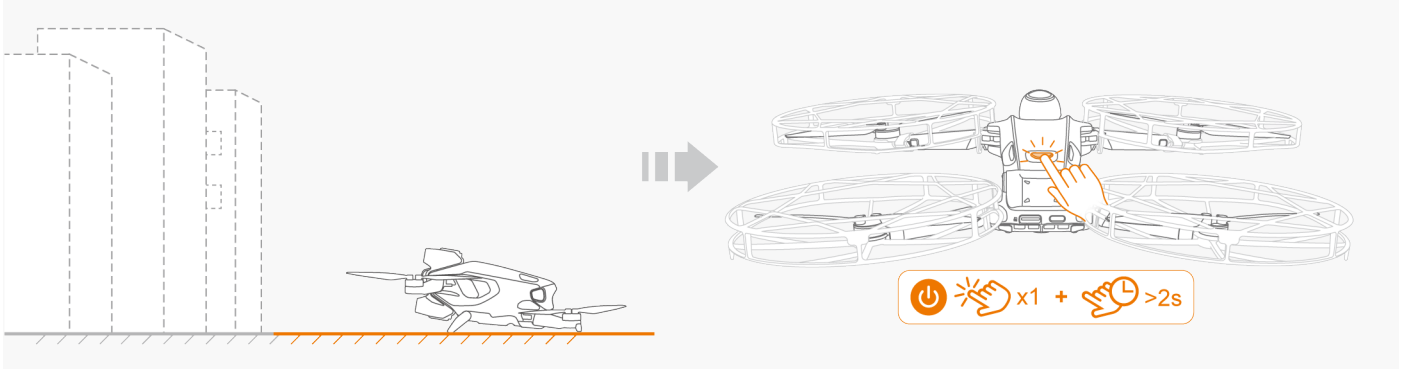
11. Configure the obstacle avoidance parameters in the Watch Remote menu.

- Every item on the pre-flight checklist is critical to flight safety. You must strictly follow the checklist to inspect your equipment and address any issues to ensure safe operation.
- When using the Watch Remote, before each flight always check whether it is set for right-hand or left-hand wear. If this is not set correctly, you may be unable to guide the drone to the intended location, creating a potential flight safety issue.

Takeoff

Before takeoff, complete the pre-flight checklist. Once everything checks out, follow the steps below to take off.

1. Place the drone in an open, flat area with its tail facing you, then power on the drone.



2. Wear the Watch Remote correctly. It is recommended to wear it on your dominant hand for the best experience. Wearing the Ring Remote is also recommended for easier subsequent operation.



If you change the hand on which you wear the watch, you must reset the wearing position in the Watch Remote. Otherwise, the drone may not respond properly to your commands.

You can also mount the watch on the official remote dock to suit different tracking scenarios.

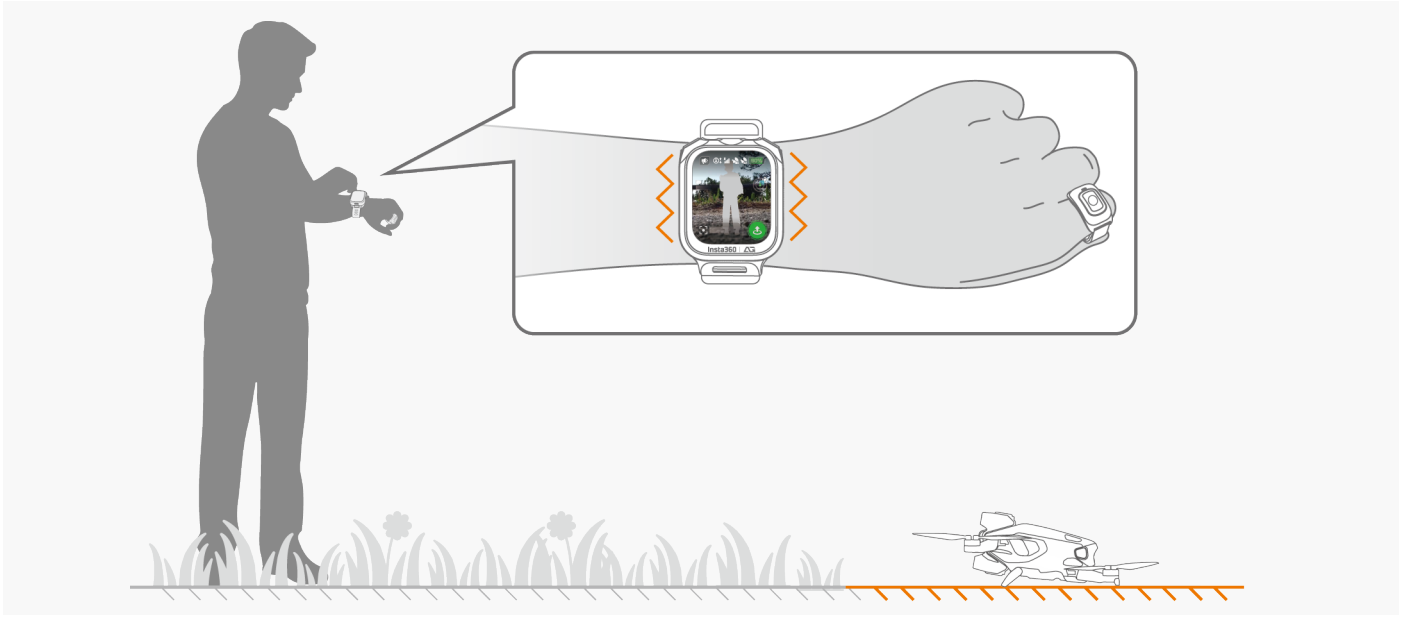
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3. Press and hold the power button on the Watch Remote to turn it on.



4. Once the Watch Remote powers on normally, it will automatically connect to the drone and the Ring Remote. After successfully connecting to the drone, the Watch Remote will vibrate and display the live video feed from the drone.

Before takeoff, for optimal tracking performance, you are advised to move to the front of the drone and remain at least two meters away from it.



5. In the Watch Remote's "Safety Settings", configure appropriate RTH and obstacle avoidance parameters. Set "Signal Loss Behavior" to RTH and "Obstacle Avoidance Behavior" to Brake.

Before flying, it is recommended to familiarize yourself with the button positions on the Watch Remote interface and the location of the emergency brake button by reviewing the official documentation or tutorial videos to ensure flight safety.

6. Wait for the drone to complete its self-check. If no warnings appear on the Watch Remote, you can unlock the motors.
7. Check that the Bluetooth signal, remote GPS signal, and drone GPS signal at the top of the Watch

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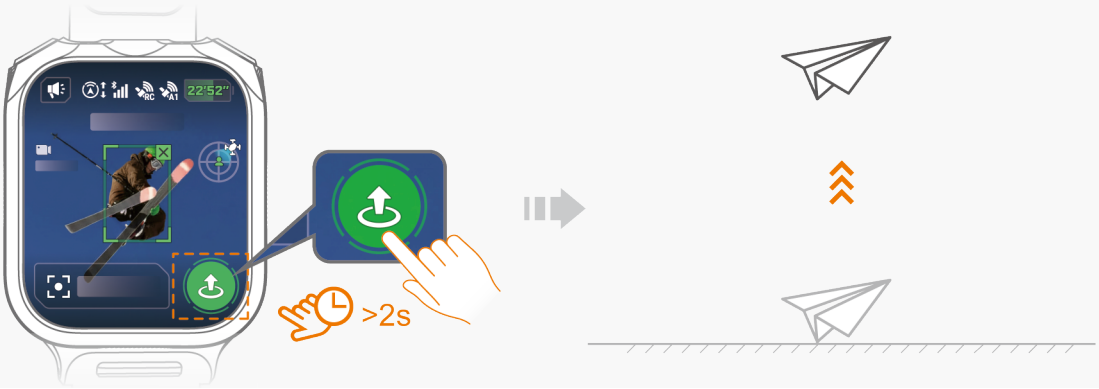
Remote menu are all at normal levels (at least 3 bars).



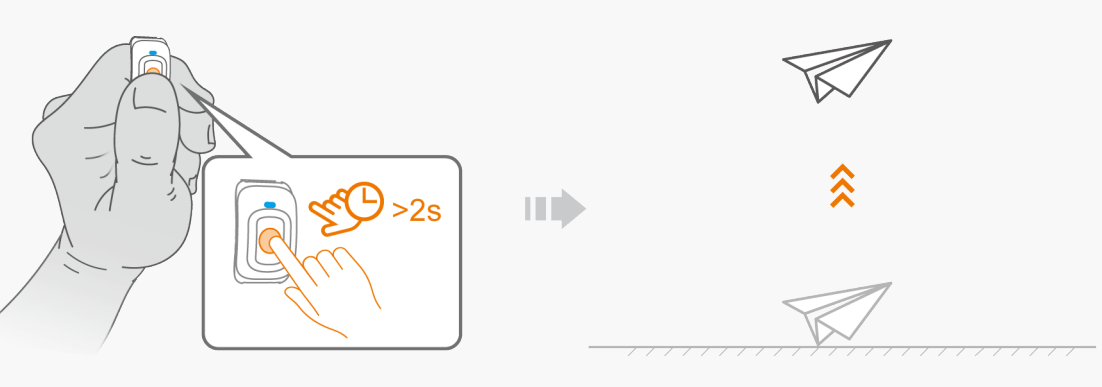
- When the Bluetooth signal is weak, the drone may not be able to return home properly.
- When the GPS signal is weak, the drone's tracking performance may be affected.

8. You can take off the drone using either of the following methods:

· Press and hold the green takeoff button at the bottom right of the Watch Remote. When the progress bar fills, the drone will automatically unlock its motors, take off, and climb to a hover at 1.2 m (3.9 ft). Releasing button to abort takeoff.



· In addition to using the Watch Remote, you can also take off by pressing and holding the shutter button on the Ring Remote.



Tip: After you confirm takeoff, the Watch Remote will play a spoken countdown; when the countdown ends, the drone will take off.

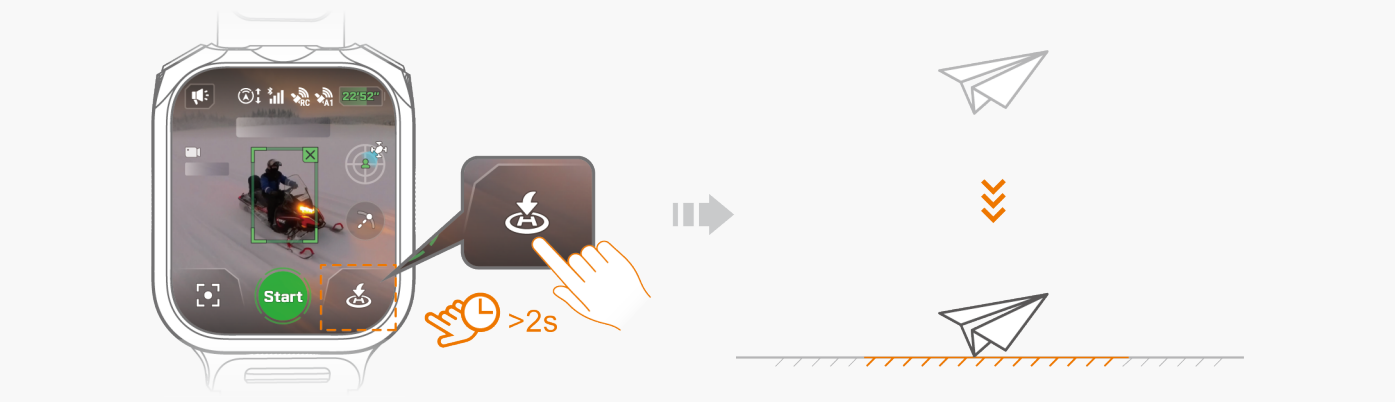
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Landing

You can return the drone to its home point using Smart RTH or by manually controlling it with the virtual joystick on the Watch Remote. This section describes both methods.

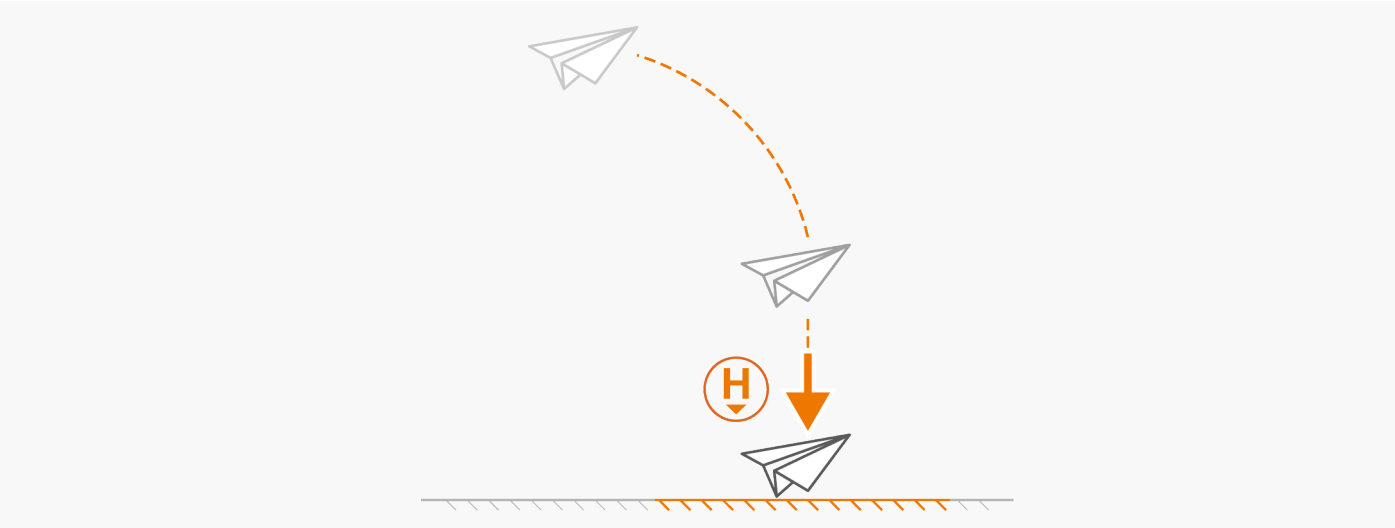
Smart RTH

1. Press and hold the RTH button on the Watch Remote for 2 seconds or longer to initiate Smart RTH.



Before enabling Smart RTH, always confirm the home point has been refreshed correctly. Do not use Smart RTH if the home point is set in an unsuitable area (e.g., over water).

2. The drone will fly to the home point at the preset return altitude and land automatically.



Home Point: When the drone has not yet locked onto a visual target after takeoff, the home point is the drone's takeoff location. When the drone has locked onto a visual target or is tracking one, the home point is the location of the last or current visual target.

3. After landing, the drone will automatically stop its propellers.

After landing, it is recommended to power off the drone first, then the remote controllers and the Ring Remote. Otherwise, a signal-loss alert may be triggered.

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Landing Protection

To ensure safe and proper landing, Landing Protection is automatically activated during Smart RTH descent. The process is as follows:

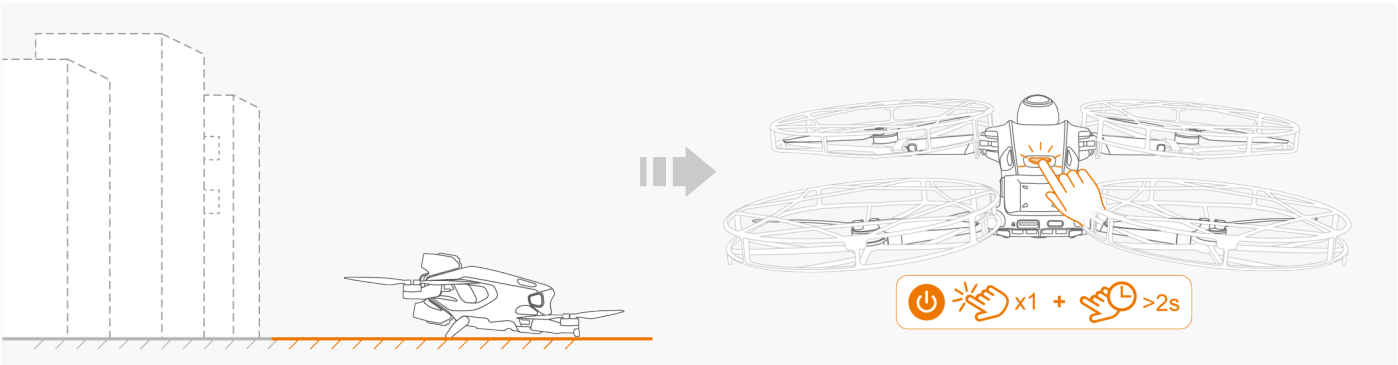
1. If lighting conditions are good and Landing Protection detects that the ground at the home point is safe for landing, the drone will land directly.
2. If Landing Protection is working normally but the vision system determines the area is unsuitable for landing (e.g., uneven ground or water below), the drone will hover and wait for user input.

- Landing Protection is only an aid for assessing the landing environment. Always observe the surroundings during landing to ensure safe operation.
- In emergency scenarios defined by the flight control system (such as critical low battery, battery fault, or takeoff failure), Landing Protection will not engage and the drone will land regardless.
- Due to vision system limitations, Landing Protection may not engage in the following scenarios and the drone will land directly:
  a. The area below the drone has solid color, large weakly-textured surfaces, dynamic textures, reflections, or low light, such as smooth tile floors, dimly lit garage floors, or wind-blown grass.
  b. Obstacles below the drone have weak texture, reflective surfaces, or solid colors, such as reefs or raised tiles.
  c. Small obstacles below the drone, such as wires or thin branches.
  d. Surfaces that resemble flat ground, such as neatly trimmed shrubs, even tree canopies, or hemispherical shapes.
- In the following scenarios, Landing Protection may engage incorrectly and the remote device will indicate that landing is not possible:
  a. The area below the drone resembles a water surface (e.g., wet or flooded ground).
  b. The flat area below the drone is surrounded by strongly-textured non-flat surfaces (slopes, steps, etc.), such as solid-colored car roofs or small tables.

Precision Landing

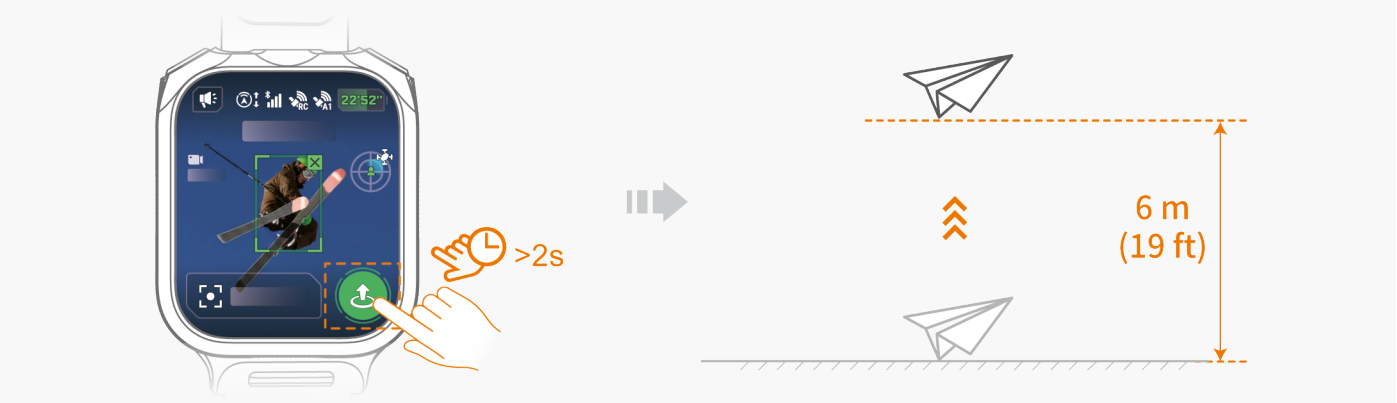
During RTH, the drone automatically scans and attempts to match the terrain features below. When the drone detects that the current terrain matches the takeoff point, it will land. The following steps are recommended for using Precision Landing.

1. Find a suitable takeoff and landing area (such as an open, flat, and unobstructed area). Place the drone on the ground, then power it on to acquire satellite signals.

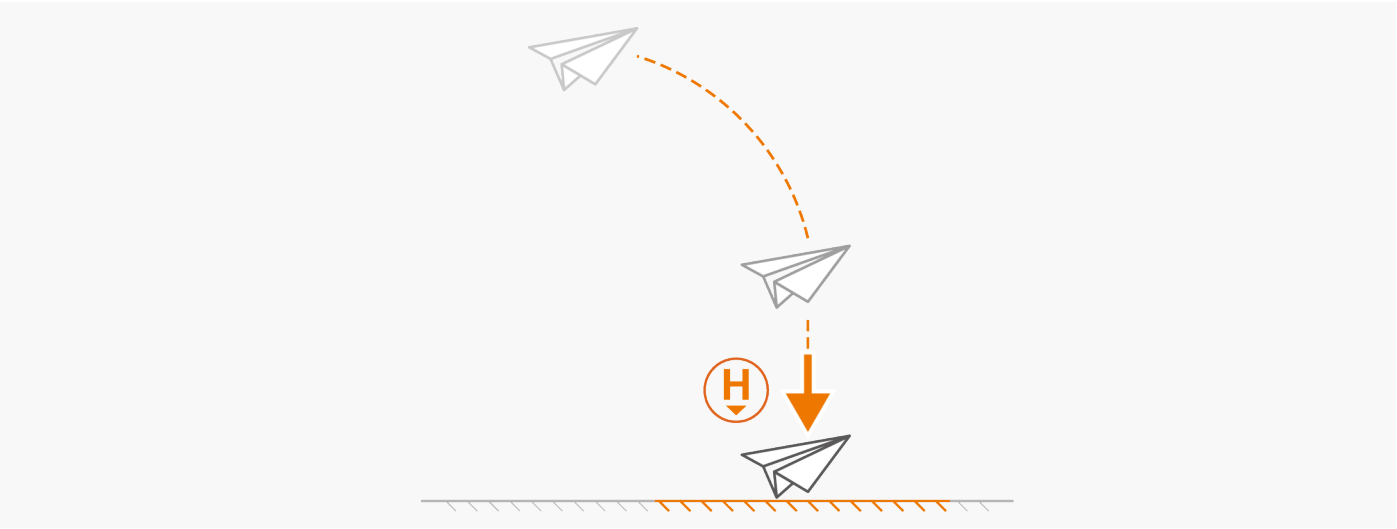


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2. After the drone completes its self-check, take off. During takeoff, you must ascend vertically at least 6 meters above the ground before flying horizontally.



3. Activate Smart RTH. The drone will return and land precisely at the home point.



⚠ • Precision Landing performance is subject to the following limitations:

a. The home point must have been successfully recorded at takeoff and must not be updated during flight. Otherwise, the drone will be unable to record updated terrain features for the home point, affecting Precision Landing accuracy.

b. During takeoff, the drone must ascend vertically at least 6 meters before flying horizontally.

c. The terrain features at the home point must remain essentially unchanged.

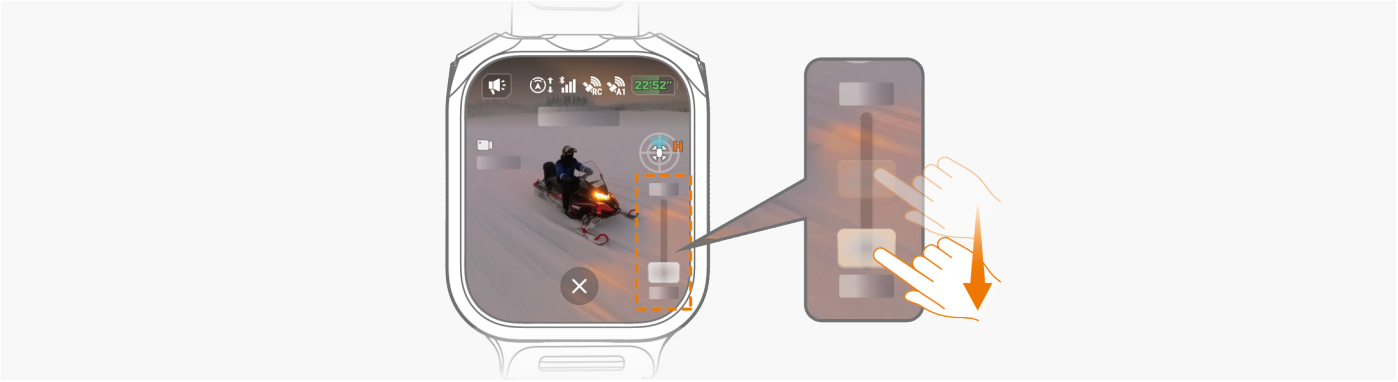
d. The terrain features at the home point must be sufficiently distinct. Precision Landing performance may be affected when flying over snow-covered terrain.

e. Lighting conditions around the home point must not be too bright or too dim.

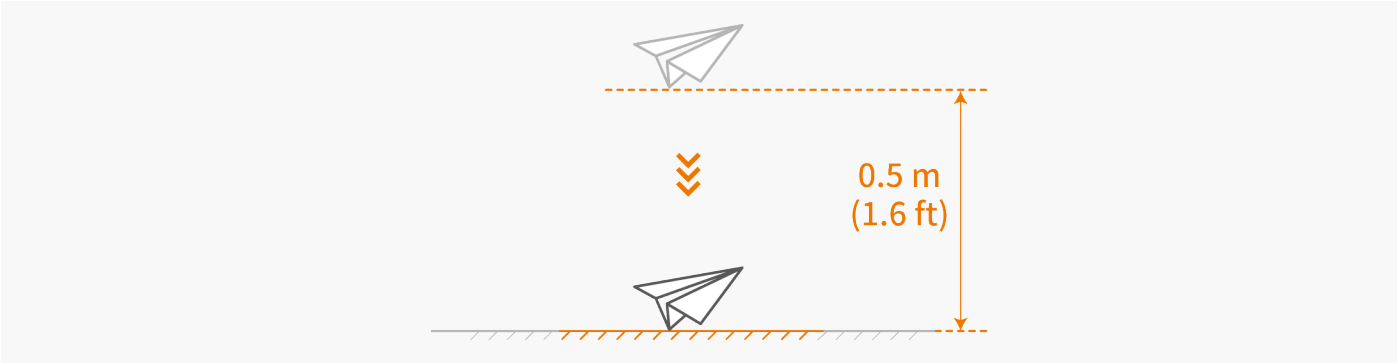
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Manual Landing

1. If GNSS signal is poor, you can use the virtual joystick on the Watch Remote to fly the drone near the home point.
2. When the drone reaches an open, level area suitable for landing, release the forward slider on the Watch Remote. The drone will hover above the landing point.
3. Drag the throttle slider downward and the drone will begin to descend.

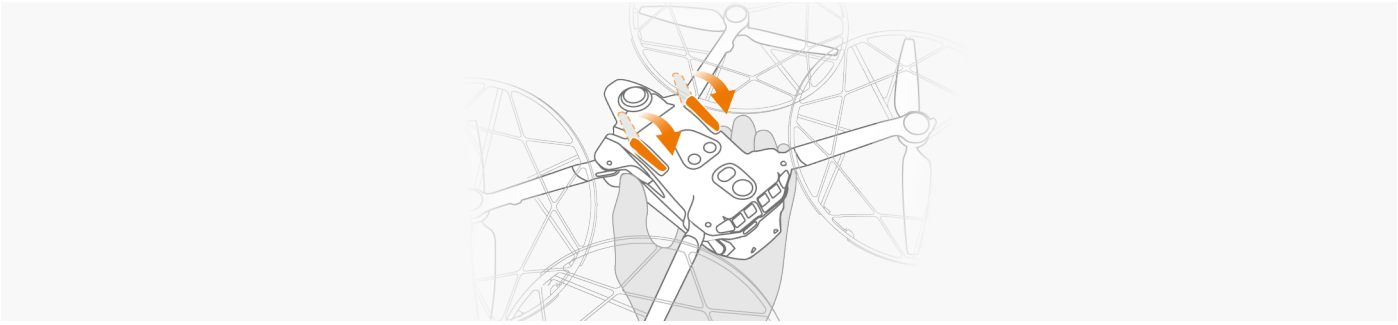


4. When the drone reaches 0.5 meters above the ground, continue holding the slider down. The drone enters the landing phase and the landing gear will automatically deploy to prevent the lens from being scratched during landing.



Post-Flight Checklist

1. Inspect the flight battery and propellers for any visible damage.
2. Ensure the camera lens and vision system sensors are clean. Clean them according to the official instructions.
3. After powering off the drone, ensure that the landing gear is retracted.



The landing gear must be retracted, otherwise the drone will not fit in the storage case.

4. After powering off, ensure that the drone's arms are folded.

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5. Batteries enter sleep mode after long-term storage. Charge them periodically to bring them out of sleep mode.
6. Store the drone, remote controllers, batteries, and charger in a dry environment. It is recommended to store and transport the product in an environment with a temperature of 15°C to 25°C and humidity of approximately 40%. No specific altitude requirements apply for transport or storage.

> If you operate the drone in humid, rainy, or condensation-prone environments, allow it to dry out or use low-temperature drying before storing it. Otherwise, moisture may accumulate on the lens and affect its function.

7. Before servicing the drone (such as cleaning or installing/removing propellers), remove the battery. Use a soft cloth and the official lens cleaning cloth to remove any dirt or dust and keep the drone and propellers clean. Do not clean the drone with a wet cloth or with cleaners containing alcohol. Liquid may seep into the drone's housing, causing short circuits and damaging the electronics.
8. When replacing or inspecting propellers, always power off the drone using the method described in ***"Power On and Off"***.

Flight Safety and Control

Flight Environment Guidelines

1. Do not fly in severe weather, including strong wind (refer to ***"Product Specifications"*** for the wind speed limit), snow, rain, fog, sandstorms, and similar conditions.
2. Flying the drone through clouds is dangerous and creates unpredictable risks for flight safety. Do not perform this kind of operation.
3. Do not use the drone in high-temperature, flammable, or explosive environments.
4. Choose an open area free of tall buildings as your flight site. Buildings with significant amounts of steel rebar can interfere with the compass and block GNSS signals, degrading the drone's positioning or preventing it from locking on at all. For this reason, do not take off from a balcony or within 10 m of buildings, and keep the drone at least 10 m away from buildings during flight. After takeoff, make sure the Home Point has been refreshed before continuing to fly. If you take off near buildings, Home Point accuracy cannot be guaranteed, so during automatic RTH, monitor the drone's position closely; when it approaches the Home Point, we recommend aborting RTH and manually landing the drone in a suitable spot.
5. At high altitudes, environmental factors degrade the performance of the drone's battery and propulsion system, which affects flight performance — fly with caution. With the Full-Coverage Propeller Guards installed, the maximum takeoff altitude is 2,000 m. On the other hand, when flying without the Full-Coverage Propeller Guards, the maximum take altitude increased to 4,000 m. Adding payload such as a propeller guard may further compromise flight performance.
6. The drone's emergency braking distance is affected by altitude — the higher the altitude, the longer the braking distance. When flying above 2000 m, reserve at least 25 m of horizontal emergency braking distance to ensure flight safety.
7. Always keep the drone within visual line of sight and away from obstacles, crowds, and water surfaces (we recommend staying at least 3 m above water).
8. When flying the drone, maintain sufficient altitude above the water or ground to ensure flight safety.
9. Do not fly near high-voltage power lines, cellular base stations, broadcast towers, or other strong interference sources, which can disrupt the remote-control link.

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10. Inside the Arctic and Antarctic Circles, the drone cannot fly with GNSS but can still fly using its visual system.
11. Do not take off from the surface of a moving object (such as the roof of a moving car, the deck of a boat, etc.) or from a sloped surface. Always take off from a stationary, level platform.
12. Do not take off from surfaces that are a single solid color or highly reflective (such as a car roof).
13. Operate and use the drone, remote controller, batteries, battery charger, and charging hub in a dry environment.
14. In force-majeure events (such as GNSS satellite failure, storms, lightning, or electromagnetic interference) or other emergencies, the drone may not be able to perform its flight mission normally.

Flight Protection

Flight Protection Area

The flight protection system designates safe flying locations, provides flight risk assessment and safety tips for your flights, and offers information on controlled airspace. Drone cannot take off from or fly into the protection area, hence, it is important to survey the area before you attempt to operate your drone. Users can check if their locations are near the flight protection zones using the Antigravity app. The system restricts takeoff and flight in areas that may pose safety or security risk to others. For the policy regarding flight protection areas, visit the official website (https://www.antigravity.tech).

Flight Protection Map

The geographic information is available in the Antigravity app. View this information from the built-in map of the Antigravity app before each flight. You should confirm that the planned take-off spot is not within or adjacent to a flight protection area. Otherwise, you will not be able to fly your drone near the planned take-off spot.

Flight Altitude and Distance Limits

Flight Limits

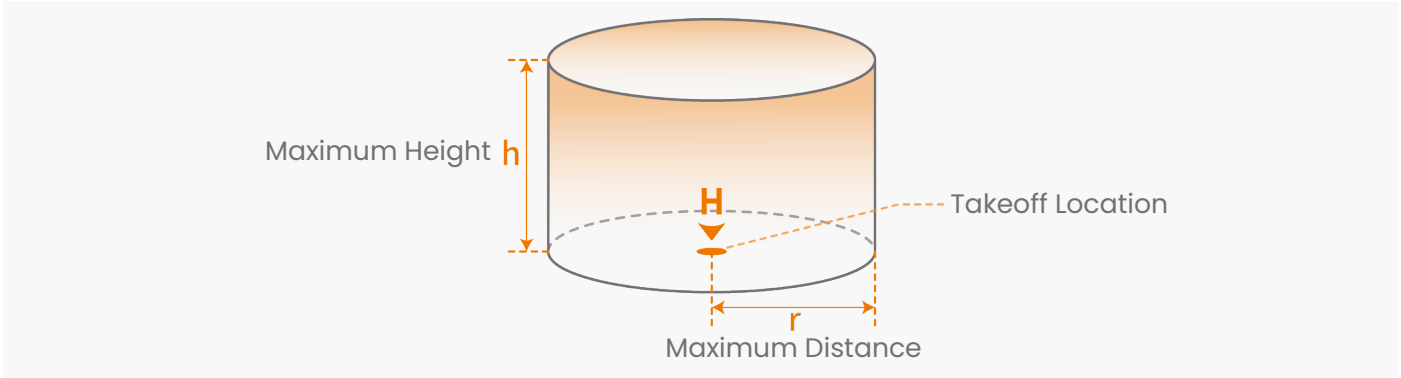
Flight limits are enabled by default for safety reasons to help you operate the drone safely.

You can set altitude and distance limits for flight. When the Global Navigation Satellite System (GNSS) is available, altitude limits, distance limits, and flight protection area work together to manage flight safety. When GNSS is unavailable, only altitude limits apply.

Flight Altitude and Distance Limits

- **Strong GNSS Signal**

  The drone's maximum flight altitude is limited by the maximum altitude relative to the takeoff point, and the maximum distance determines the farthest distance the drone can fly. You can set both parameters in the flight goggles*.



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*The Follow Me bundle does not include flight goggles. You cannot directly modify the altitude and distance limits through the Watch Remote.

· Weak GNSS Signal

In this case, the drone's maximum altitude is limited by environmental factors such as lighting conditions.

- Under normal lighting conditions, the maximum flight altitude is approximately 30 m relative to the takeoff point. If the GNSS signal recovers (), the maximum altitude limit is lifted.
- In low-light conditions, the maximum flight altitude is approximately 2 m relative to the takeoff point. If the GNSS signal recovers ( ), the maximum altitude limit is lifted.

· Altitude and Distance Limits of Follow Me Bundle

When you install the Full-Coverage Propeller Guards and connect the drone with the Ring Remote, the drone system will impose further restricts the maximum flight altitude and distance to ensure safety. The specific limits are as follows:

Flight Limit Type	Distance
Maximum Altitude (h)	50 m
Maximum Distance (r)	200 m

Even if the drone flies beyond the limit area due to inertia, you can still control it. In this case, you should return the drone to the Home Point as quickly as possible.

Flight Safety Operating Rules

To avoid serious personal injury and property damage, follow the rules below:

1. Make sure you are not under the influence of anesthetics, alcohol, or drugs, and are not experiencing dizziness, fatigue, nausea, or any other condition that could impair your ability to operate the drone safely.
2. After landing, power off the drone first, then power off the remote controller.
3. Do not drop, launch, or otherwise project any hazardous payload toward buildings, people, or animals, to prevent personal injury or property damage.
4. Do not use a drone that has been in a collision, has been accidentally damaged, or is in poor condition.
5. Ensure you have received adequate training and have a contingency plan in place for emergencies or accidents.
6. Always have a flight plan in place. Do not fly the drone recklessly.
7. When using the camera, respect the privacy of others and comply with local privacy laws, regulations, and ethical standards.
8. Do not use this product for any purpose other than ordinary personal use.
9. Do not use this product for illegal or improper purposes such as espionage, military operations, or unauthorized investigations.

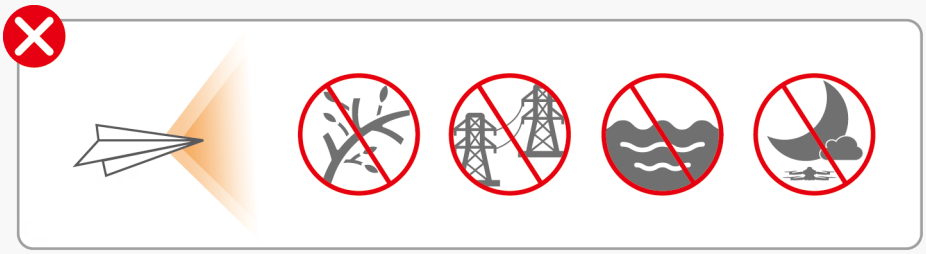
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10. Do not use this product to defame, abuse, harass, stalk, threaten, or otherwise infringe on the privacy rights, publicity rights, or other legal rights of others.
11. Do not use the drone to enter another person's private property without permission.

- Never approach a spinning propeller or motor. Do not attempt to touch a hovering drone with your bare hands, and do not attempt to take off or land while holding the drone or with the drone in the palm of your hand.
- Before takeoff, make sure all devices have sufficient battery and the propellers are undamaged.
- Users should ensure they are familiar with each flight mode and, by reading official user documentation or watching videos, become familiar with the drone RTH process under RTH mode.
- When a low-battery warning appears, RTH as soon as possible.
- During Smart RTH, control the drone's speed carefully to ensure a safe return.

RTH and Obstacle Avoidance Guidelines

When using automatic obstacle avoidance, pay close attention to the flight environment. The visual system and infrared sensing system only work in certain scenarios and cannot replace manual control and judgment. While flying, stay aware of your surroundings and the warning messages from the remote control device, and be ready to take control of the drone at any moment. The illustrations below show common high-risk scenarios — do not rely too heavily on automatic obstacle avoidance in environments like these (forests, high-voltage power lines, water, nighttime, etc.).



For more safety notes about automatic obstacle avoidance, please refer to the ***"Obstacle Avoidance Safety"*** section.

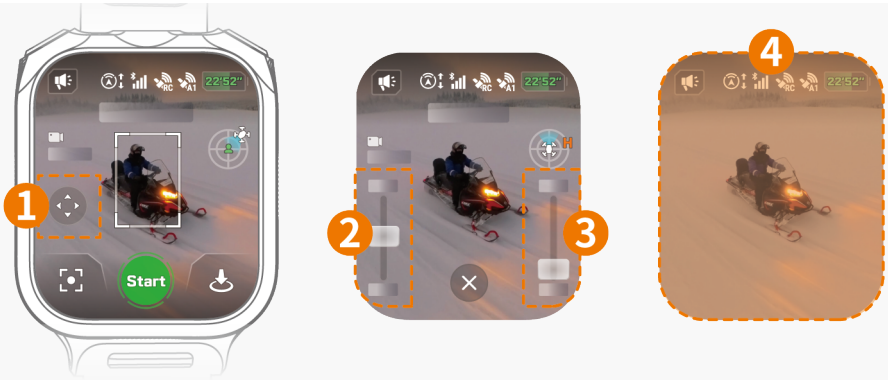
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Flight Control

Manual Mode

You can enter Manual mode by tapping the flight mode bar in the Watch Remote live view. Alternatively, you can press the power button on the Watch Remote once to enable Manual mode. The icon for this mode is shown below: 

After selecting Manual mode, you can now adjust the drone's flight altitude and heading using the following controls on the Watch Remote interface: ❶the touch control, ❷the forward-and-backward slider, ❸the ascent-and-descent slider, and ❹the viewing adjustment area.



Horizontal Flight

Use the forward-and-backward slider on the Watch Remote to move the drone forward or backward. Follow the instructions below to use this feature.

1. The drone will remain hovering at its current altitude until the user taps the touch control on the Watch Remote.

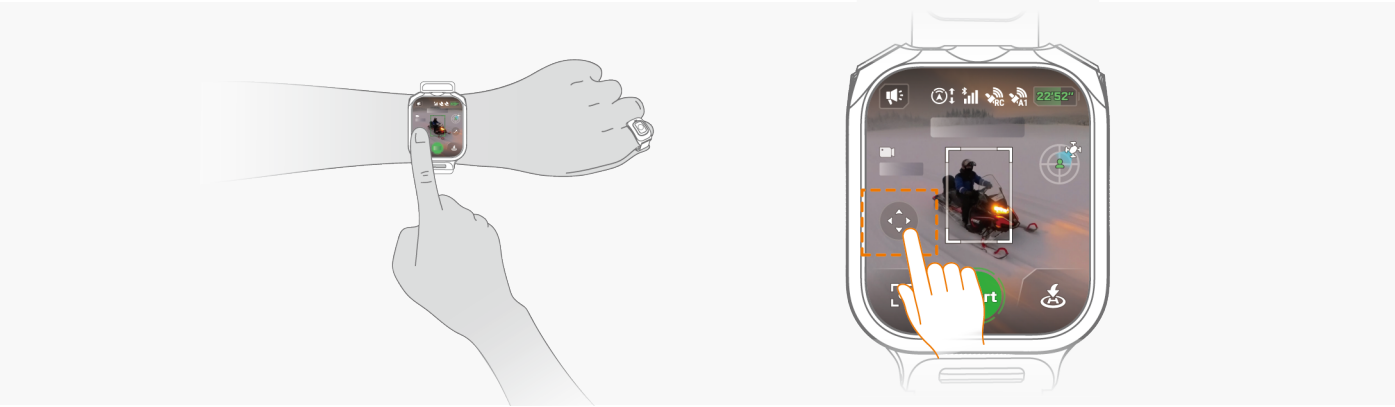


Cautions:
The drone will hover at the takeoff altitude if it has not yet entered Tracking mode or if no tracking target has been selected.

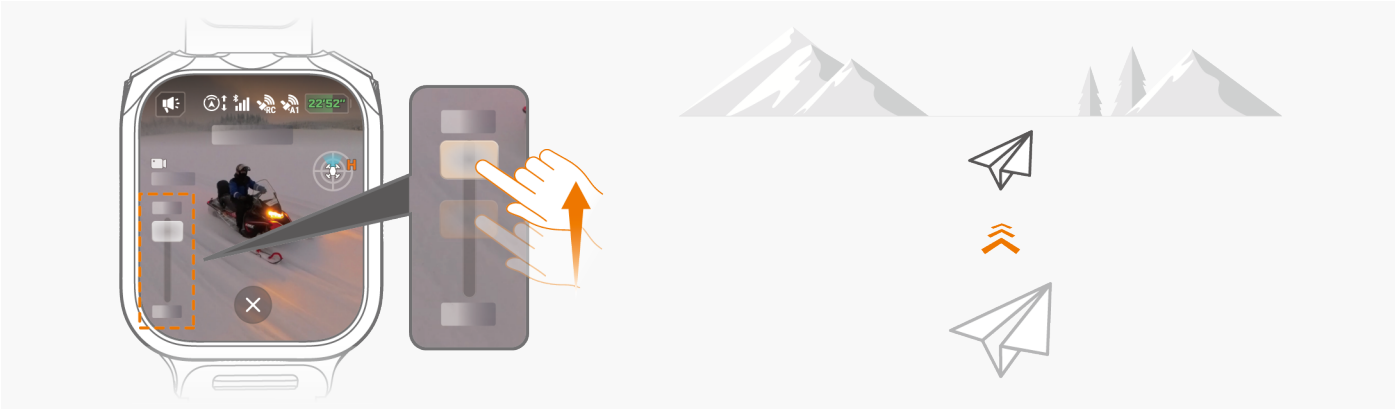
If the drone has entered Tracking mode, it will move horizontally regardless of whether Manual mode is selected.

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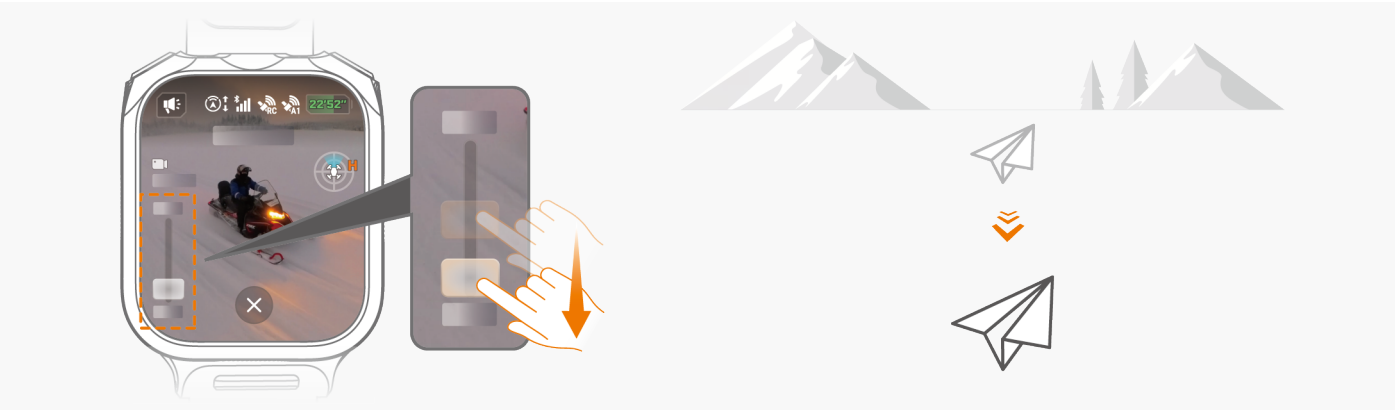
2. Tap the touch control on the Watch Remote to start using Manual mode controls to maneuver the drone.



3. Drag the forward-and-backward slider upward to allow the drone to fly forward at its current altitude.



4. Drag the forward-and-backward slider downward to allow the drone to fly backward at its current altitude.



Tips:

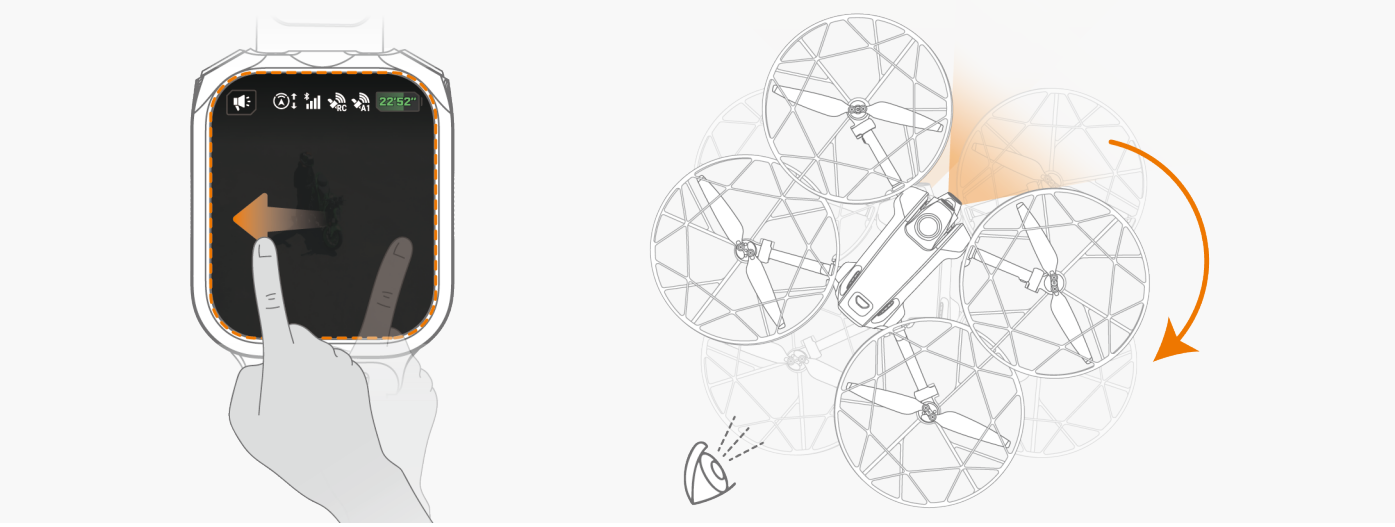
- The drone cruises at a fixed speed, which does not change based on how quickly you move the slider.
- Once connected to the Watch Remote, the Antigravity A1 drone is able to fly backward. Keep a safe distance from the drone.

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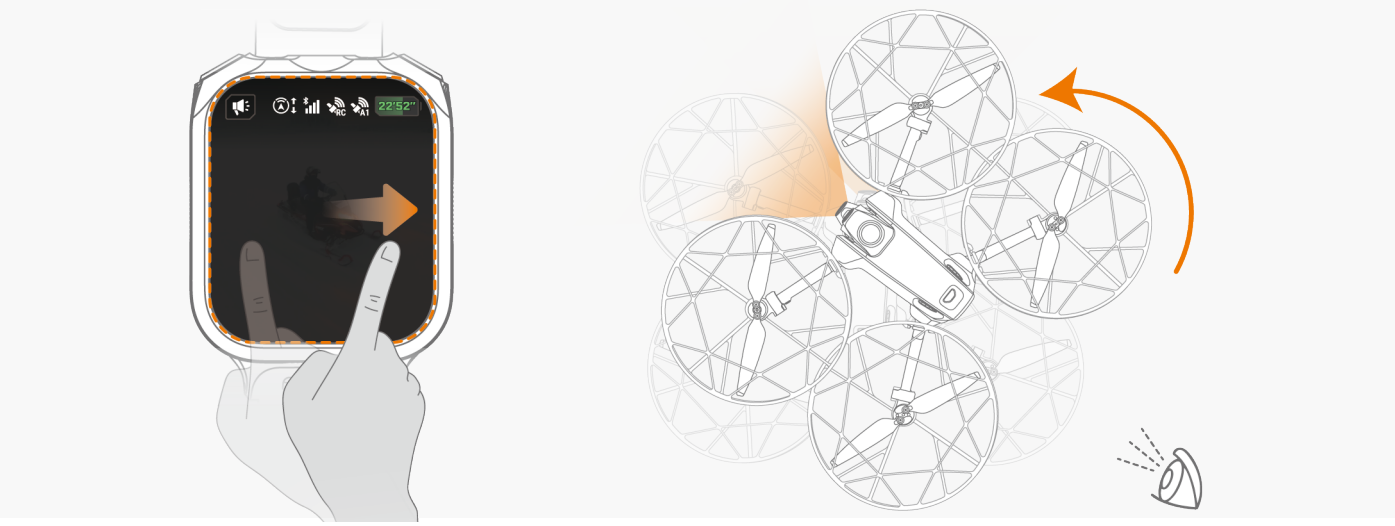
Adjusting the Drone's Heading

When the drone is hovering, you can adjust the drone's heading in the following ways.

· Swipe left on the touch screen in the live view area, and the drone will rotate counterclockwise.

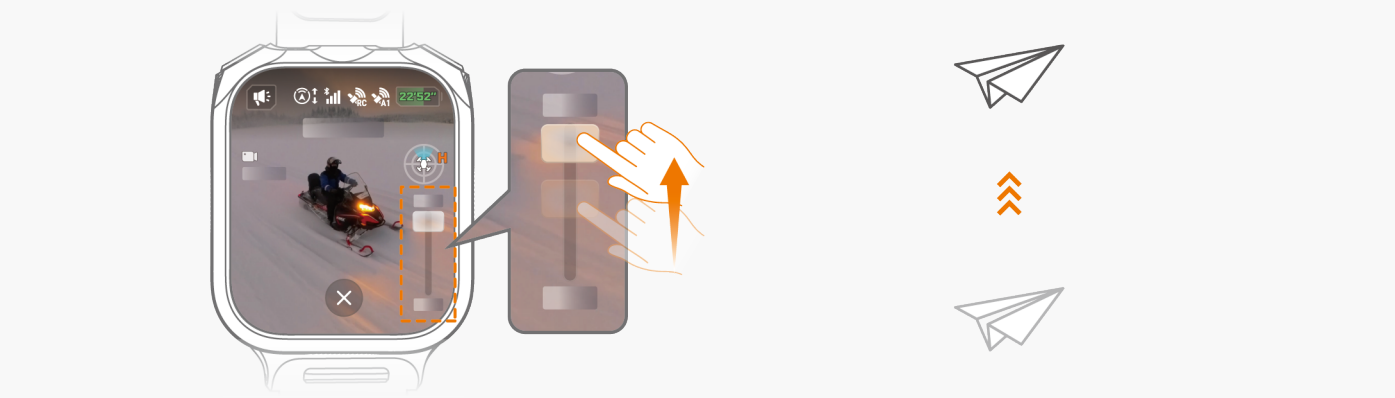


· Swipe right on the touch screen the live view area, and the drone will rotate clockwise.



Ascend or Descend

· Drag the slider upward and the drone will slowly ascend until it reaches the altitude limit.



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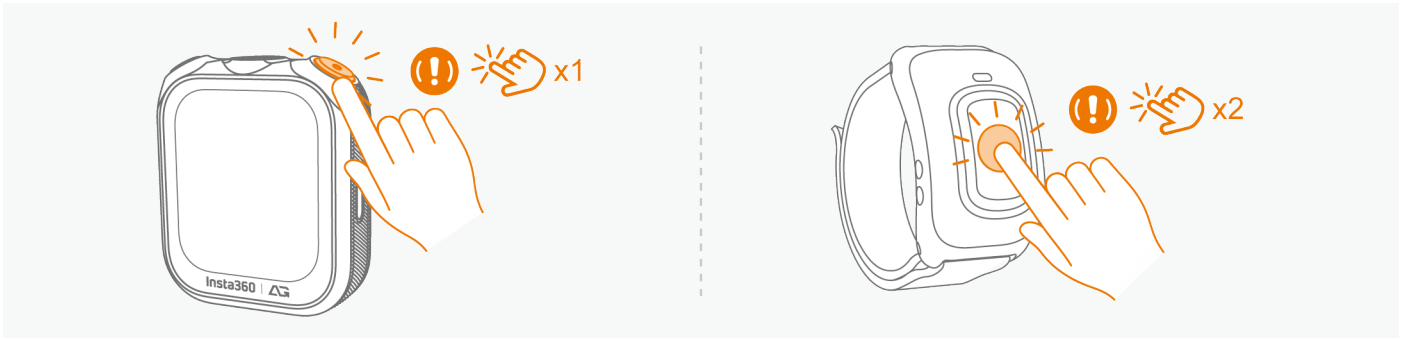
· Drag the slider downward, and the drone will slowly descend until Landing Protection is activated. For more details on Landing Protection, refer to the ***"Landing"***section.



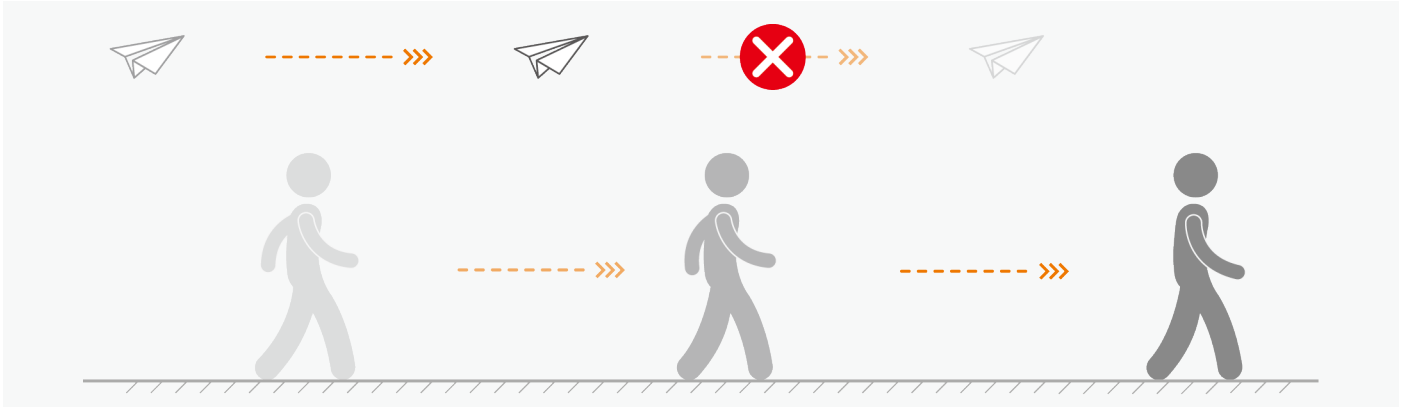
Emergency Braking

If an emergency occurs during flight (for example, if the drone becomes unresponsive), you can stop the drone immediately as follows:

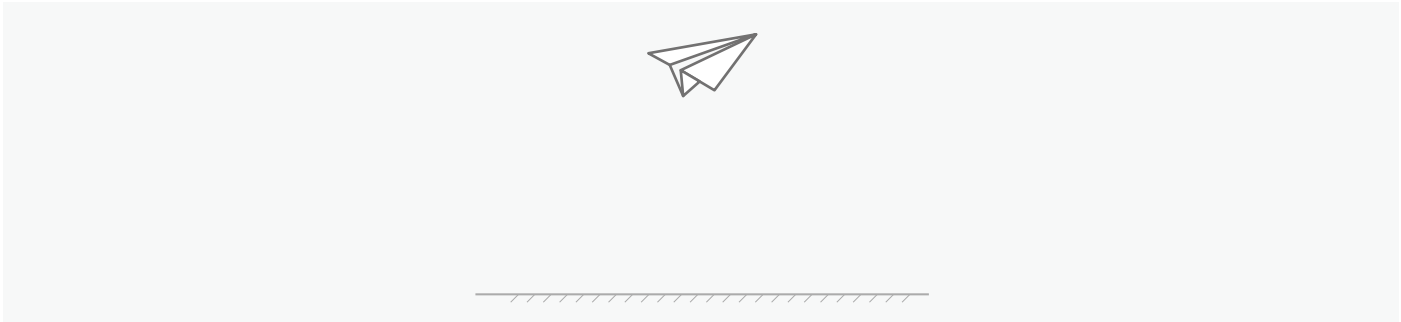
1. Press once the multifunction button on the Watch Remote or double-tap the button on the Ring Remote.



2. The drone brakes immediately, aborting its current flight task and stopping recording.



3. The drone will then hover and await flight commands.



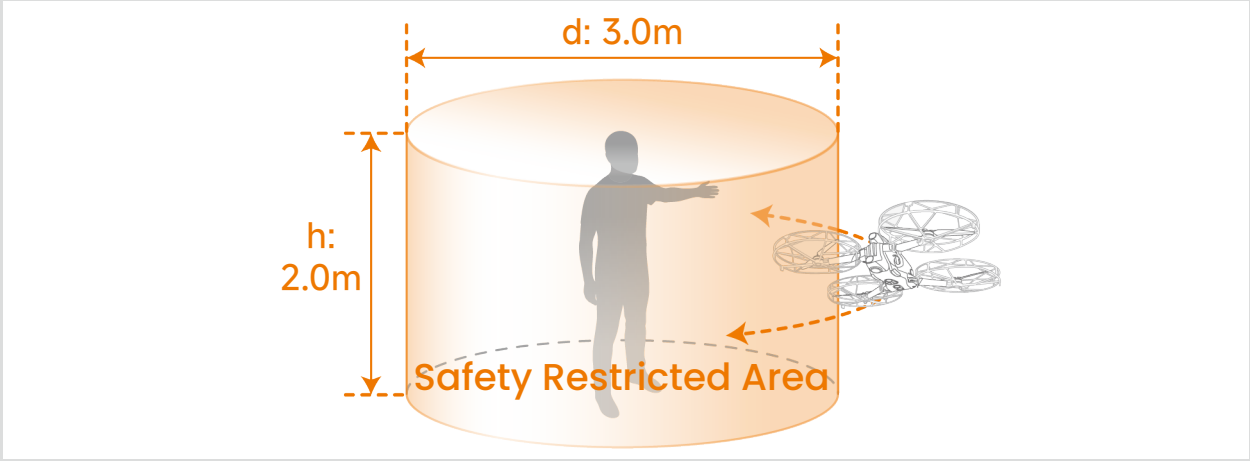
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Drag-to-Fly

With Drag-to-Fly, you can change the drone's position in real time by waving your arm. The drone moves in sync with your hand movements along a spherical surface centered on the subject being recorded.

Cautions:

- A visual tracking subject must already be selected before you can enable Drag-to-Fly. The drone will not respond to the Drag-to-Fly movement pattern in Manual mode or when no subject is locked.
- When the tracking of visual subject is lost or briefly obstructed, Drag-to-Fly cannot be enabled or will not respond to your commands.
- To safeguard your safety, the drone system establishes a virtual safe zone while Drag-to-Fly is in action. This zone is a virtual cylinder centered on the operator, with a diameter of 3.0 m and a height of 2.0 m measured upward from the ground. The drone cannot pass through this cylinder. If it attempts to enter the area, it will move along the surface of the cylinder instead.



How to Enable Drag-to-Fly

First, select a visual tracking subject on the Watch Remote interface, then choose the control method. You can control the drone with either the Watch Remote or the Ring Remote, however these two are mutually exclusive.

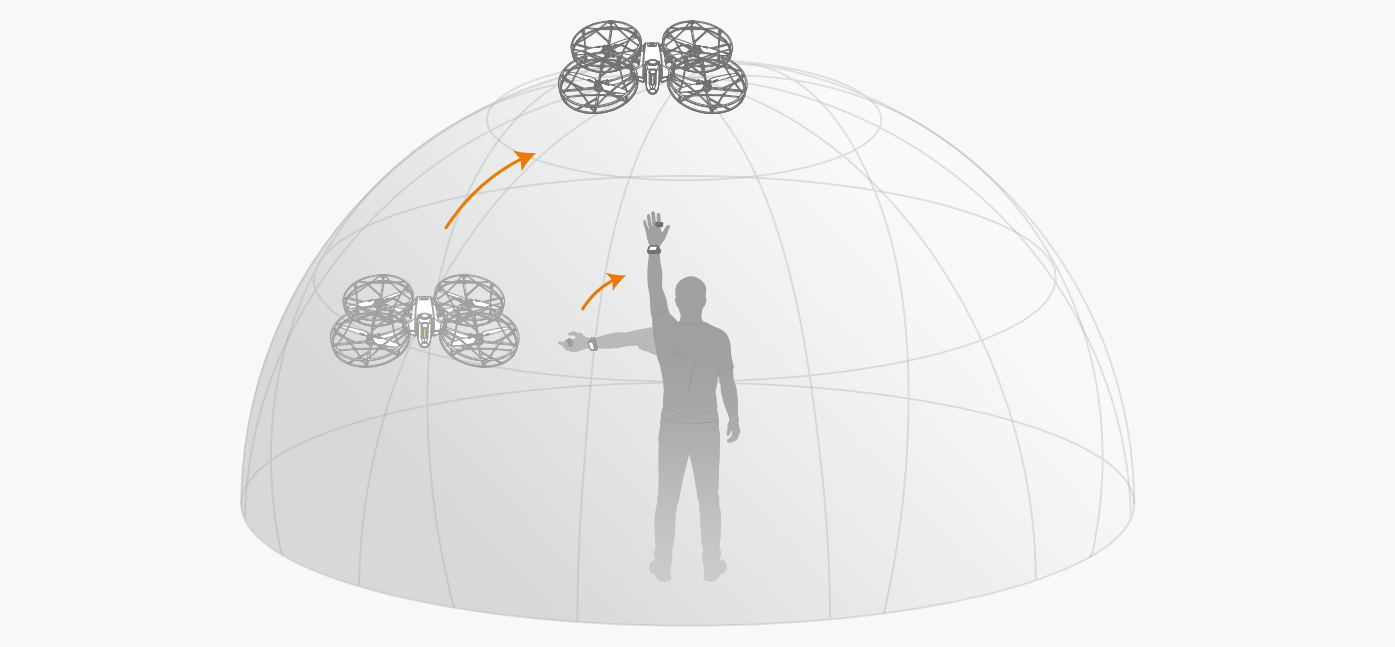
1. **Watch control:** Enabled by a watch gesture. It enters "Distance Mode" by default, and the watch prompts "Point the watch at the drone." Use the bottom bar to switch between "Orientation" and "Distance." While the watch is enabled, ring control will not respond.
2. **Ring control:** Enabled by pressing and holding the Ring Remote button. The recognized gesture determines which control screen you enter (distance gesture → Distance Mode; orientation gesture → Orientation Mode); release to exit automatically. While the ring is enabled, watch control will not respond.

Tip: Ring control is a mutually exclusive operation: when Orientation Mode is enabled, you cannot adjust the distance between the drone and the operator at the same time; when the distance-adjustment mode is enabled, you cannot control the orientation at the same time.

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Changing Orientation by Dragging

1. Following the prompts on the watch interface, raise your arm and point it toward the nose of the drone.
2. Wave your arm left and right to change the drone's orientation. The drone will smoothly change its orientation along a spherical surface, following the direction of your arm's movement.



Pull In and Push Out

When wearing the Watch Remote, you can adjust the distance between the drone and yourself by twisting your wrist.

1. Take off the drone and adjust the drone's viewing angle.
2. Tap the live view area on the Watch Remote and select the tracking visual subject, which is usually the drone operator.
3. Check that the drone's nose is facing towards you, and extend the arm wearing the Watch Remote horizontally. Then:
   a. Twist your wrist inwards to pull the drone closer to you.



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b. Twist your wrist sideways to push the drone away from you.



Cautions:

- Be sure to set the watch-wearing hand correctly, otherwise the drone may not respond to your gesture control properly.
- While using Drag-to-Fly, the live preview feed will temporarily stop syncing to the watch.

How to Disable Drag-to-Fly

After adjusting the position of the drone, you may disable the Drag-to-Fly control and return to the live view by one of these two methods:

1. Watch Remote GUI

Tap the Off button on the Watch Remote to exit the Drag-to-FLy menu.



Drone

Flight Mode

Toggling between flight modes is not available when the drone is connected to the Watch Remote. The flight modes such as Normal, Sport and Cine is no longer available for selection when you are controlling the drone via the Watch Remote.

For information on the maximum speed in each of the flight modes, refer to the ***"Product Specifications"*** section in the appendix.

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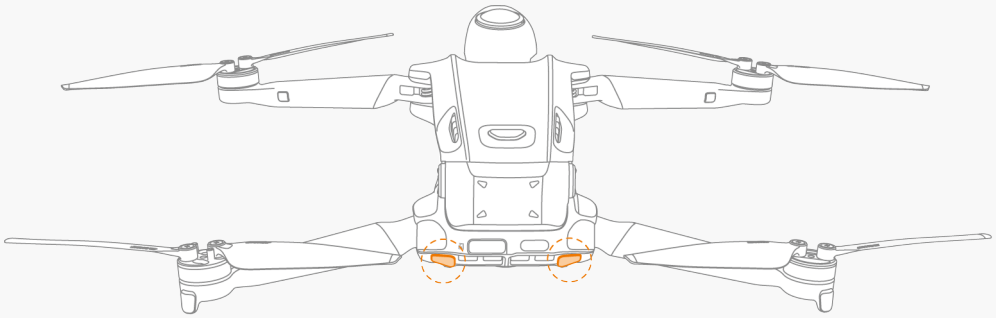
Cautions:

- Allow a minimum braking distance of 10 m (32.8 ft) for safety when flying in Sport or Normal mode in a windless environment.
- In Sport mode, the drone's speed increases significantly compared to Normal mode, requiring a vertical braking distance of at least 20 m (65 ft) in windless conditions for safety.
- The braking distance of your drone is affected by the flight altitude. When operating in high altitude areas, allow for ample braking distance.
- In Sport mode, the drone's control sensitivity increases, so users should allow ample space for executing any maneuvers.
- In Sport mode, the obstacle avoidance system is turned off automatically due to the increased speed. Caution is advised.

When the vision system is unavailable or disabled, and the Global Navigation Satellite System (GNSS) signal is weak or the compass is interfered with, the drone will automatically switch to Attitude (ATTI) mode. In Attitude (ATTI) mode, the drone may be more susceptible to the influence of the surrounding environment. In this scenario, even a mild wind may cause the drone to drift, which is dangerous when flying indoors or in narrow spaces. It is recommended to land the drone immediately to avoid accidents when the drone is in this mode.

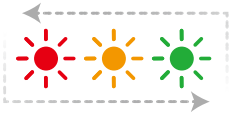
Flight Indicators

The flight indicators locate the rear of the A1 drone. Refer to the figure below:

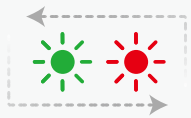
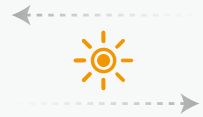


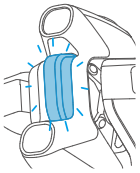
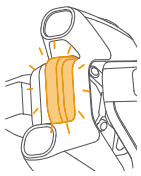
Before Taking Off

After the drone's power is turned on and the motors are not yet started, the blinking flight indicator LED will show the current system status. Refer to the table below for details.

General Status		
	Alternating blinking of red, yellow, and green LEDs	Drone self-check.
	Slow blinking of green LEDs	GNSS signals are strong. The drone is ready for takeoff.
	Slow burst of blinking green LEDs	No GNSS signal is available, but only the Vision sensing system is available. The drone is ready to take off.

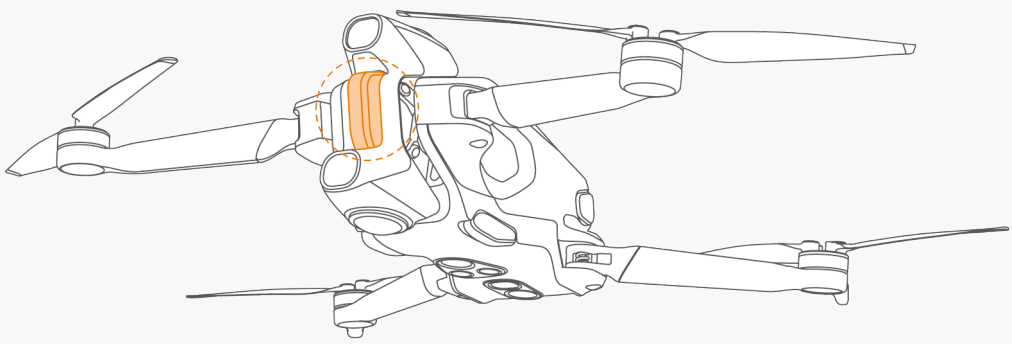
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	Alternating green and red flashing	Motors are unlocked and the propellers start rotating. The drone is ready to take off.
	Rapid blinking of yellow	Connection lost between the drone and the Vision Goggles or other remote control devices.
	Short burst of blinking yellow	Battery level is low.
Critical Status		
	Blinking red LEDs	· System error detected. · The drone is in ATTI mode. (no GNSS signal detected and vision system is not available)
	Blink twice in red over a short burst.	Critical low battery level. Land the drone immediately.
	Solid red LEDs	Critical system error detected. Power on and off your drone.

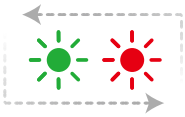
Front Indicator	Pattern	Drone status
	Blinking blue LED	Firmware update in progress.
	Blinking yellow LED	The drone is disconnected from the remote controllers.

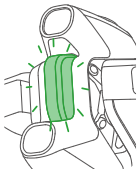
After Take-off

After the motors start and the drone takes off, the nose status indicator light flashes green.



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Flight Indicators at Rear	Pattern	Drone status
	Alternating blinking of red and green LEDs	Normal. The drone is in flight.

Front Indicator	Pattern	Drone status
	Slow blinking of green LED	Normal. Drone is in flight.

⚠ The blinking pattern of the flight indicator may vary by country or region. Please comply with local laws and regulations.

RTH (RTH)

Introduction to RTH

The RTH function allows the drone to return to the last recorded home point on its own. There are three ways to initiate RTH: manual activation, low battery, or loss of control signal. If the drone has successfully recorded the home point and the GNSS is working properly, the drone will automatically return and land at the home point.

Home Point

Home point is defined as the location where a strong to medium GNSS signal strength (represented by a white icon) is received. So long as the signal strength remains stable before takeoff, the Home point can be refreshed. However, if the signal is weak, the Home point will not be updated.

GNSS Signal		The white icon denotes strong GNSS signal, the Home point is recorded and can be updated.
		The red icon denotes weak GNSS signal, the Home point cannot be recorded or updated.

⚠ **Note:** If the drone is already near or has entered a Flight Protection Area, the Home Point cannot be refreshed or recorded even with strong GNSS signals.

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Refreshing the Home Point

When both the drone and the Watch Remote have a good satellite signal, the Home Point GPS information refreshes automatically without user intervention. You can use the icon on the Watch Remote below to confirm that the Home Point has been refreshed. When the Home Point is refreshed successfully, an orange "H" appears on the watch screen and the Watch Remote prompts **"Home Point Updated"**.

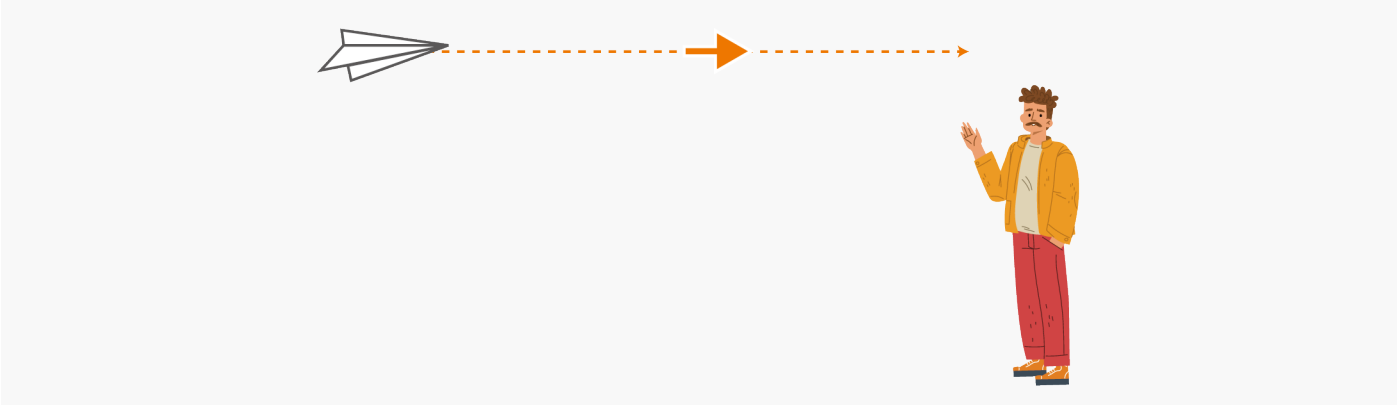


Refreshing the Home Point in Follow Mode

When the drone starts tracking visual objects automatically, the bounding box on the Watch Remote turns from white to green.



At this point, the Home Point is positioned inside the green bounding box. If you start RTH now, the drone flies toward the person or object inside the green bounding box and enters the RTH state.



Note: While the drone is tracking a visual target, if the target is temporarily lost due to obstruction by an obstacle, the drone continues to use the last known position within the bounding box as the Home Point and flies toward that location.

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Refreshing the Home Point in Free Flight

If the drone has not entered Follow state, it uses its own coordinates as the Home Point. If RTH is triggered at that moment, the drone slowly descends in place.

RTH Procedure

1. The drone records Home Point.
2. RTH is triggered.

- RTH is triggered in one of three ways:
  - The user manually triggers RTH.
  - Loss of control signal triggers Smart RTH. Note: Smart RTH only happens if you have set the signal-loss behavior to Smart RTH in the Watch Remote menu. Otherwise, the drone will not perform Smart RTH.
  - A low flight battery triggers RTH.
- The drone's loss of control behavior can be set to RTH or Hover. Upon connecting the Watch Remote to the drone for the first time, you must select your preferred option.

3. The RTH altitude is critical for safely guiding the drone home, so the drone selects different RTH altitude strategies based on its distance from the current Home Point.

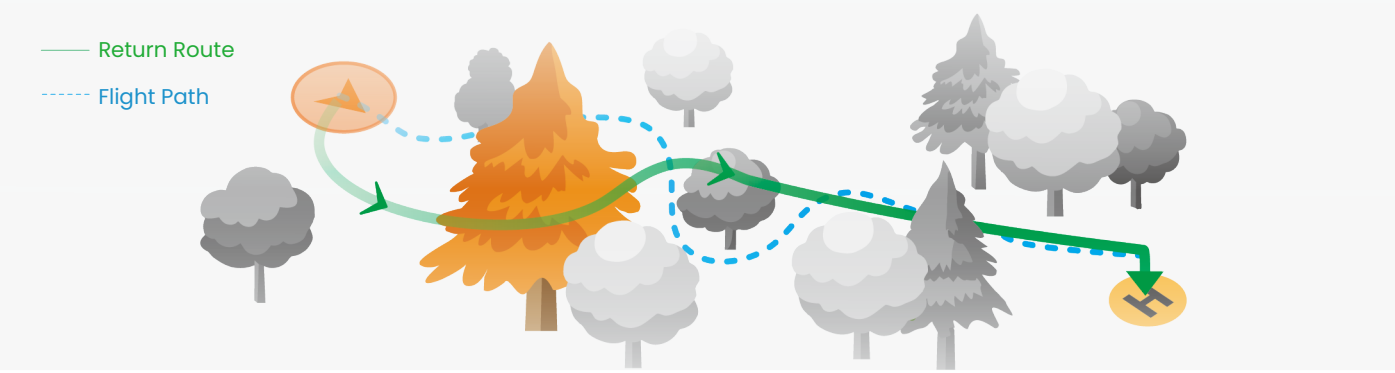
- When the drone is less than 5 m from the Home Point, it lands in place.
- When the drone is between 5 m and 50 m from the Home Point, it performs RTH at its current flight altitude. If the current altitude is below 3 m, the drone first climbs to 3 m and then flies to the Home Point.
- When the drone is more than 50 m from the Home Point, if its current altitude is below the preset RTH altitude, it climbs to the preset RTH altitude and then flies to the Home Point. If its current altitude is already above the preset RTH altitude, it flies to the Home Point at its current altitude.
- When automatic obstacle avoidance is active, the drone continuously collects environmental data during RTH, intelligently chooses the safest flight path, dynamically adjusts its attitude and heading, and actively steers around detected obstacles for a safer, more reliable return.

4. Once above the Home Point, the drone lands by itself until the motors stop.

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Optimal RTH Flight Path

By default the drone will employ the optimal RTH to plan the flight route back to the Home Point. Rather than flying horizontally toward the home point at a fixed altitude, the drone will generate an optimized RTH flight path that connects its current position to the home point along the shortest feasible distance while minimizing battery consumption, thereby increasing the likelihood of a safe return. During the RTH process, the drone also fuses real-time sensing data to detect and bypass obstacles on its path, provided lighting conditions are optimal. This strategy is suitable for moderately complex urban environments.



Manually Triggering RTH

1. During flight, tap the RTH and landing button to enter the menu.

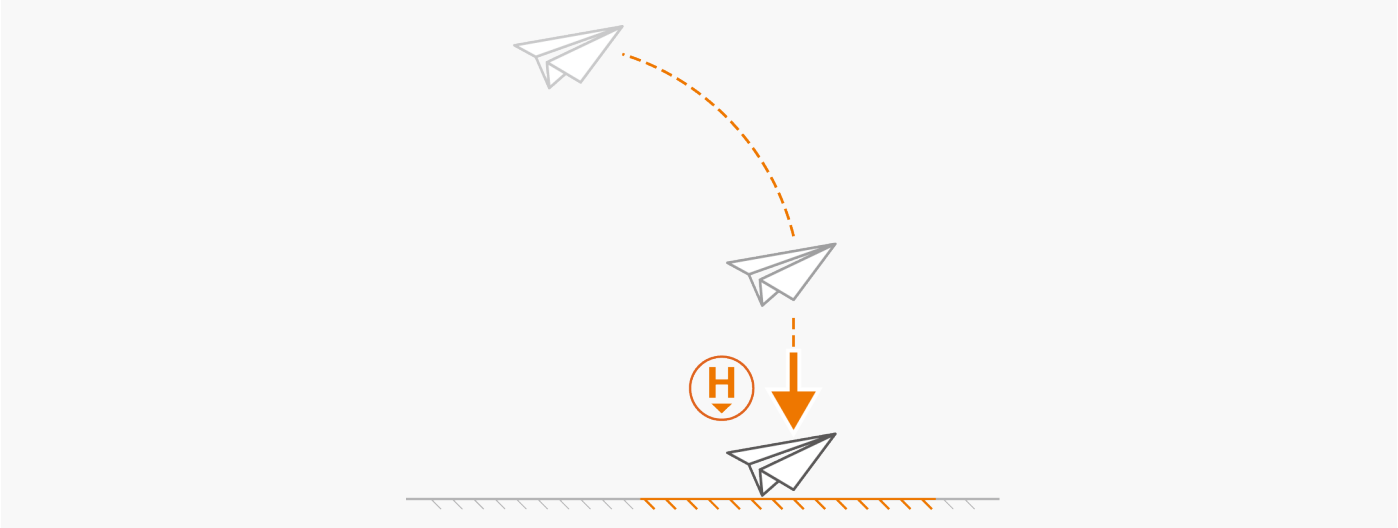


2. In the submenu, press and hold the “RTH” button.



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3. The drone will then return to the Home Point along the optimal RTH path.



Low-Battery RTH

1. During flight, the drone continuously estimates remaining flight range based on its current position, battery level, and environmental information. When the battery reaches a warning level, the drone notifies the user.
2. When the drone detects that the remaining range is only enough to return to the Home Point, it issues a low-battery countdown alert and starts a 10-second countdown. If you take no action within 10 seconds, the drone performs Smart RTH.
3. When the drone detects that the remaining range is only enough to land, it issues a countdown alert "Drone battery critically low; landing in place." After the 10-second countdown ends, the drone lands on its own.

- Strong wind can affect the remaining range estimate. Return the drone as soon as possible.
- If the drone's current state does not support remaining-range estimation (no Home Point, battery communication error, no GNSS signal, etc.), the remaining-range estimate is invalid; monitor your flight distance and battery level carefully.
- During automatic low-battery landing, you can still use the Watch Remote to steer the drone toward a safer landing spot.
- If the drone is performing a subject-tracking task, it will continue the task even after a critical low-battery warning is issued, and will automatically land once the battery is depleted.

Lost Connection Behavior Setting

If the connection signal between the drone and the Watch Remote is lost and a Home Point has been recorded, the drone performs one of the following actions for safety measure:

- **Hover:** If you have set the signal-loss behavior to "Hover," and the drone hovers long enough to enter a low-battery state,it stops hovering and switches into Low-Battery RTH, starting to fly toward the Home Point. Take control promptly to ensure flight safety.
- **RTH:** The drone will automatically adjust its heading and fly back to the last recorded Home Point at the preset flight altitude. After reaching Home Point, the drone will descend and land on its own.

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RTH Safety Strategies

To maximize the likelihood of a safe return, the flight controller implements the following safety strategies to help the drone effectively avoid obstacles and return home safely.

- Active Extrication

  After Smart RTH is triggered, the drone uses its sensing system to recognize the surroundings. If it detects that it is in a confined space, it adjusts its attitude and heading to fly to an open area before beginning RTH.

- Path Retracing

  If RTH is triggered by loss of control signal, the drone adjusts its heading and flies back along its path for a stretch in an attempt to re-establish a connection with the remote control device.

- Adaptive RTH Altitude

  During RTH, the drone automatically avoids obstacles. If an obstacle appears ahead on the return path, the drone climbs to fly over it and then continues RTH. If the drone detects an obstacle below it during RTH, it also automatically adjusts its RTH altitude.

The obstacle-avoidance safety strategies above only function in adequate lighting. Smart RTH triggered at night cannot reliably execute these strategies safely or effectively.

- RTH Near Flight Protection Areas

  If the drone's return path crosses a Flight Protection Area, the drone routes around the Flight Protection Area on its return.

If the drone's return path crosses a Flight Protection Area, it automatically routes around the zone; however, if the Flight Protection Area has a complex shape, the detour may significantly increase the return distance and reduce the chance of a safe return. Always fly well clear of Flight Protection Areas.

RTH Safety Risk Notices

- Strong winds can affect the drone's remaining range and prevent accurate battery calculations. Monitor your battery level and proactively initiate RTH early.
- If the drone's current system state does not support remaining-range estimation (for example, while refreshing or recording the Home Point, GNSS signal anomalies, flight-battery communication errors, etc.), the drone cannot tell you the precise remaining range. Monitor your flight distance and remaining battery carefully; otherwise the drone may not return safely.
- During RTH in low-light environments, the automatic obstacle-avoidance system cannot function fully, and the drone may not properly avoid obstacles along its return path. Monitor the flight state continuously and take control of the drone as needed.

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Obstacle Avoidance

Obstacle Avoidance Overview

The drone features an omnidirectional vision sensing system with dual-camera modules and infrared sensors, providing comprehensive obstacle avoidance during flight.

- **Sensing Directions:**

  The drone supports obstacle avoidance in upward, downward, and horizontal directions. Its forward-facing system detects obstacles ahead for safe forward flight, while the downward-facing system senses objects below. Using real-time analysis of panoramic camera imagery, the drone also identifies obstacles above and beneath it, helping avoid collisions during takeoff, landing, and low-altitude flight.

- **Forward Sensing Range:**

  The effective forward obstacle avoidance range varies by scene and conditions. In general, the forward measurement range is 0.5 m to 18 m.

- **Downward Sensing Range:**

  The downward measurement range is 0.3 m to 7.5 m. Within this range, downward obstacles are detected effectively, ensuring low-altitude flight safety.

Obstacle Avoidance Safety

The obstacle avoidance feature relies on multiple systems such as the vision system and infrared sensing system on the drone. You must understand safety precautions when using this function. Observe the following practice when using the obstacle avoidance feature.

- Be aware of the surroundings of the flight site at all times. Since the performance of the obstacle avoidance system is affected by ambient lights and other factors and cannot replace manual control and judgment, stay alert to the drone's movements during the flight.
- When the Global Navigation Satellite System (GNSS) signal is weak, the downward vision system performs best when the drone is between 0.3 m and 7.5 m above the ground. If the drone flies above 10 m, visual positioning performance degrades, so extra attention and careful operation are required.
- In low-light environments, the vision system may not perform optimally even with the fill light on. Fly with caution.
- When flying near the water surface, the downward vision sensor system may not work properly. This could make it challenging to avoid the water surface during landing. It is important to maintain control of the drone, assess the surroundings, and not rely too much on the vision system for stabilization.
- The vision sensors cannot identify large structures with frames and wires, such as tower cranes, high-voltage transmission towers, high-voltage power lines, cable-stayed bridges, and suspension bridges. Do not operate near these structures.

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- The vision sensors may not work effectively near surfaces with no distinct patterns, or in areas with low or high lighting. Exercise caution when operating your drone in the following scenarios:
  a. Flying near monochromatic surfaces.
  b. Flying near highly reflective surfaces (e.g., mirrors).
  c. Flying near water or transparent surfaces.
  d. Flying near moving surfaces or objects, especially in scenes with dense crowds or heavy traffic.
  e. Flying in areas where lighting changes frequently and dramatically.
  f. Flying near extremely dark or extremely bright surfaces.
  g. Flying near surfaces that strongly reflect or absorb infrared waves (e.g., mirrors).
  h. Flying near surfaces without distinct patterns or textures.
  i. Flying near surfaces with repeating identical patterns or textures (e.g., uniformly designed tiles).
  j. Flying near obstacles with small reflective surfaces (e.g., tree branches and wires).
- Keep the vision lenses clean at all times. Do not scratch or modify the vision lenses. Do not operate the drone in dusty or humid environments.
- Do not fly in rain, fog, haze, or other low-visibility weather conditions.
- Before each takeoff, check the following:
  a. Ensure that no stickers or other obstructions are on the lenses of the downward infrared sensor and vision system (including those on the drone and the Vision Goggles).
  b. If the downward infrared sensor or vision system gets dirty, dusty, or wet, wipe it with a dry cloth. Do not use any alcohol-based cleaning products.
- Remain vigilant and fly with caution when operating your drone at night, as the vision system is not available in low light conditions and the drone may not be able to avoid obstacles or hover with precision.
- Performing sharp turns, U-turns, or other abrupt direction changes may increase the braking distance. For safety, please avoid these types of maneuvers in complex environments.

Disabling Obstacle Avoidance

The obstacle avoidance is enabled by default. And it can only be disabled in Manual mode. If you need to disable it, turn it off in the “Flight & Safety Setting” from the Watch Remote menu.

Once obstacle avoidance is disabled, the drone cannot avoid obstacles during autonomous flight, such as tracking or executing the Sky Genie flight path. The user must avoid obstacles manually.

When obstacle avoidance is active, the icon  on the Watch Remote appears as shown below. The drone can then effectively detect obstacles in horizontal and vertical directions.

When automatic obstacle avoidance cannot take effect, the icon  on the Watch Remote blinks. The user must operate the drone with caution at that time.

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Obstacle Avoidance Behavior

Bypass

With Bypass enabled, the drone changes its heading and cruising speed to maneuver around obstacles. After clearing the obstacle at a safe distance, it returns to its original heading toward the Home Point to finish the RTH sequence.



Upon detecting an obstacle in its vertical path, the drone climbs to bypass it and continues its flight path once it has safely cleared the obstruction.



Brake

The drone automatically decelerates and hovers at a safe distance when it detects an obstacle ahead on the flight path, waiting for the user's next action. You can then adjust the flight path or confirm to continue flying using the Watch Remote.



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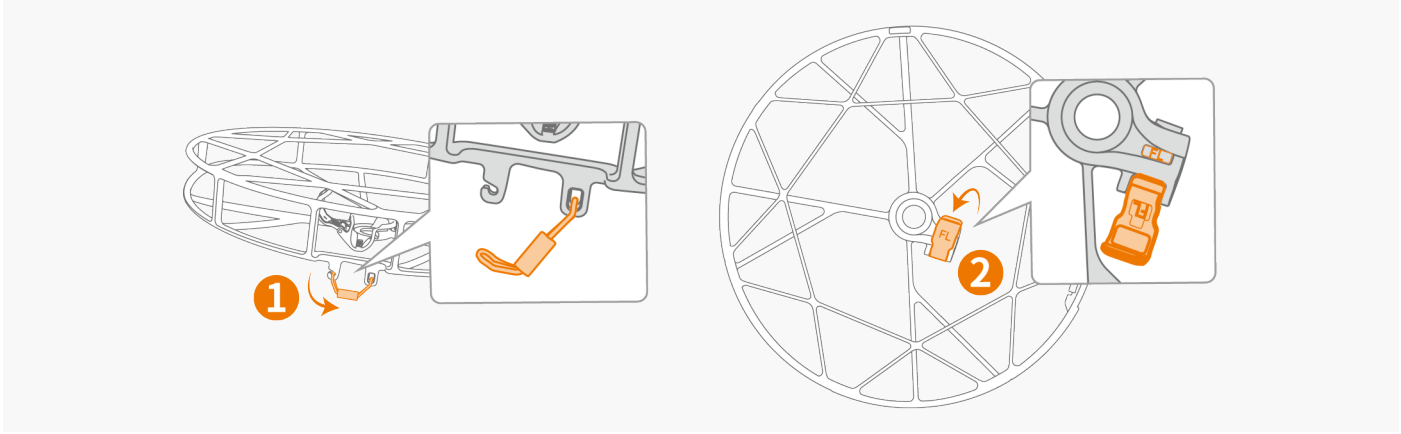
Full-Coverage Propeller Guards

Installing the Full-Coverage Propeller guards effectively helps prevent accidents. Follow the steps below to install the propeller guards.

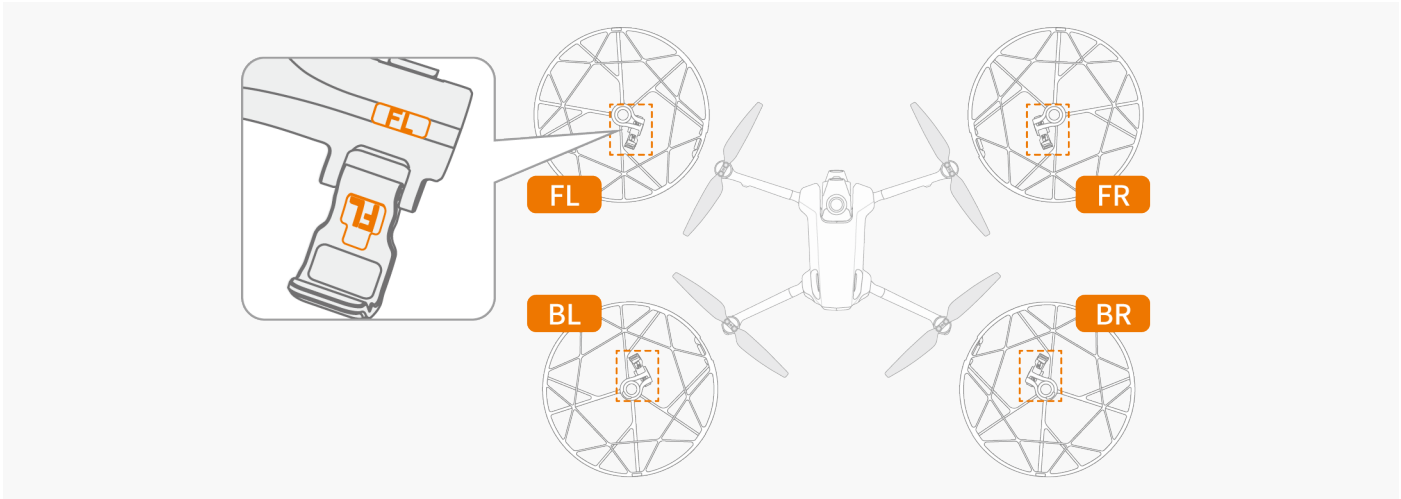
- Read and understand these instructions before installing the propeller guards.
- After the guards are installed, note the following changes: the drone's maximum takeoff weight increases and its flight time is reduced.
  - The drone's altitude and distance limits will be adjusted, so you must enter the menu on the remote control device to check the values.
  - After removing the Full-Coverage Propeller Guards, open the Antigravity Studio video editing software or the Antigravity App and enable the propeller stitching setting. For details, refer to the information provided on the official website.
- Stay clear of the rotating rotors, even when the propeller guard is installed. Otherwise, there is a risk of hair entanglement.

How to Install

1. Unlock the latches on the motor base and release the loop from the hook.

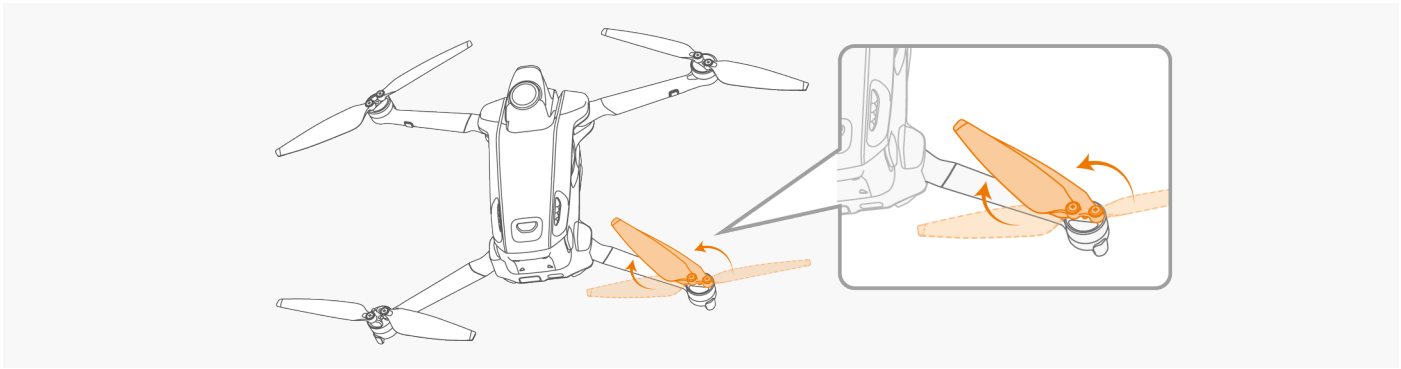


2. The propeller guards are distinguished by front (F), back (B), left (L), and right (R). Be sure to assemble the components with the corresponding numbers together. The pairing of the components are displayed below:

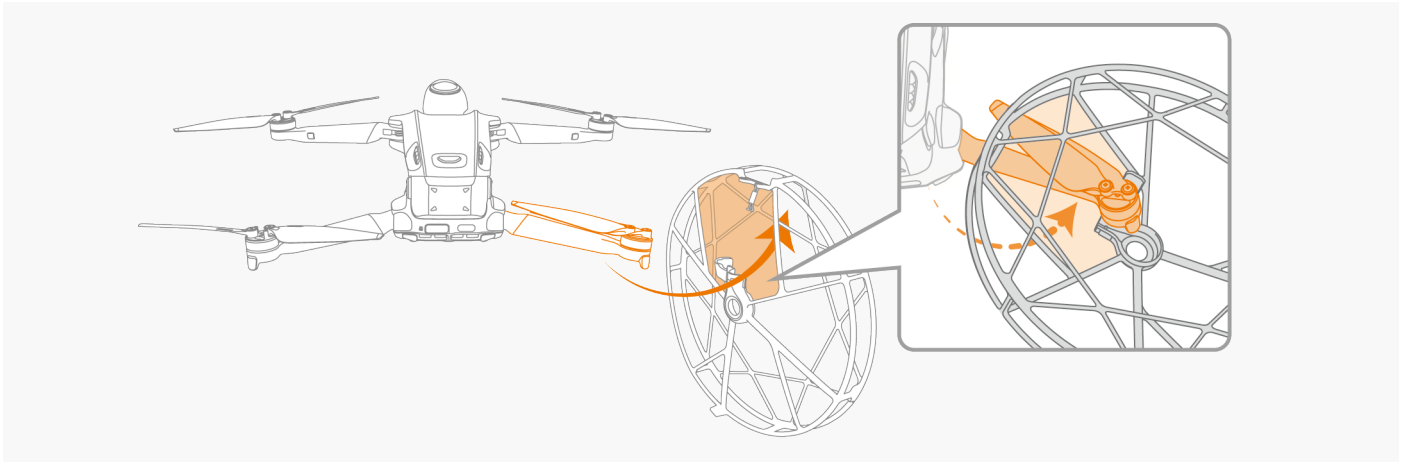


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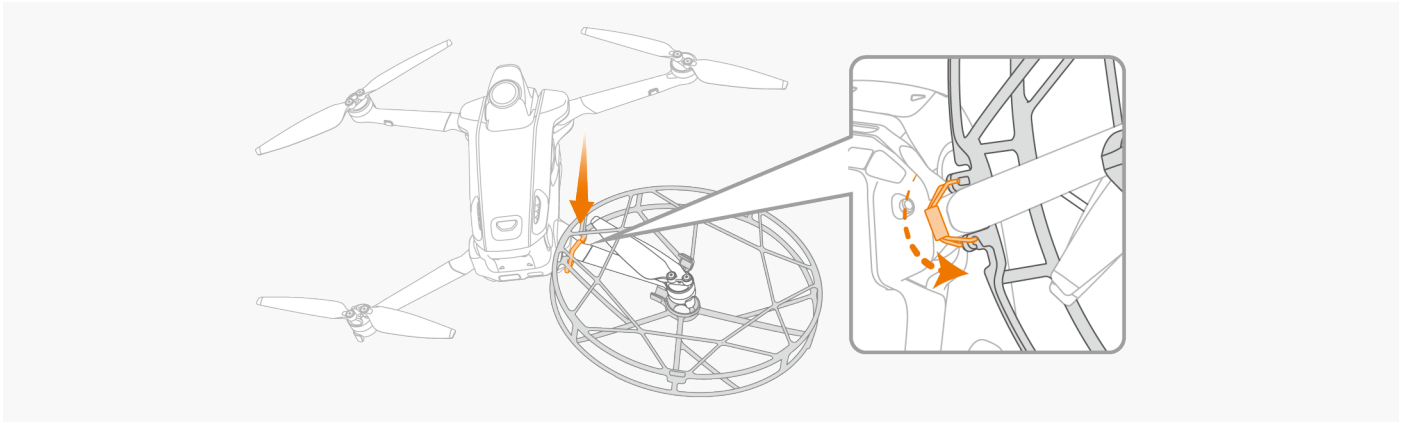
3. Fold and stow the propellers to free up the arm area.



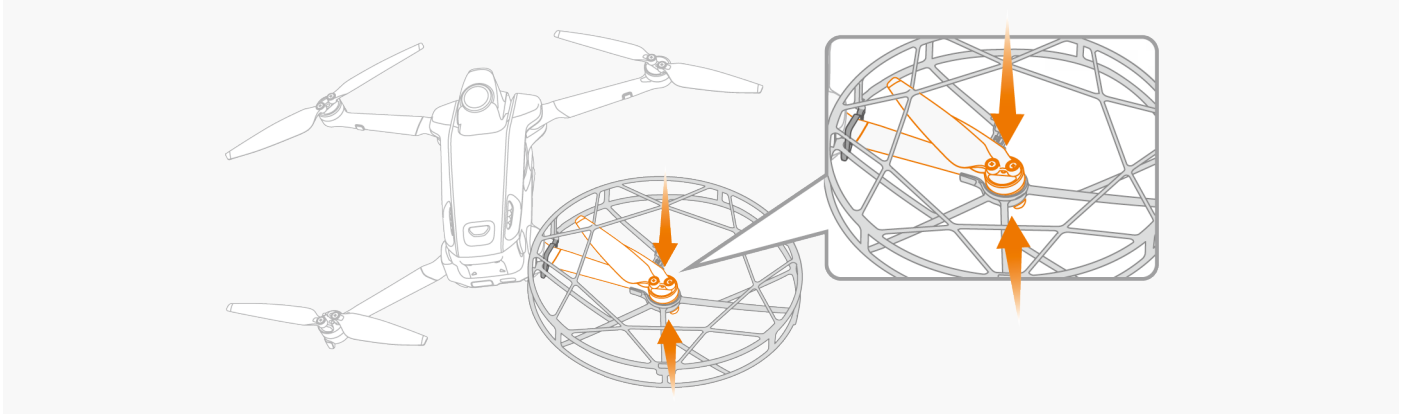
4. Thread the drone arm through highlighted area of the propeller guard frame as shown.



5. Snap the inner latch (the one closer to the aircraft body) onto the arm and attach the loop to the hook.

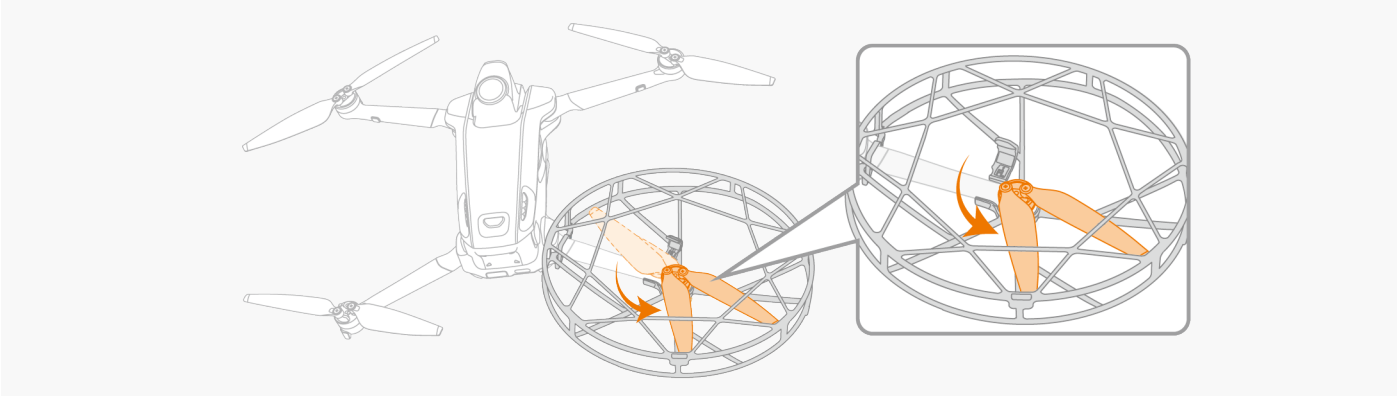


6. Mount the motor on to the propeller guard base.

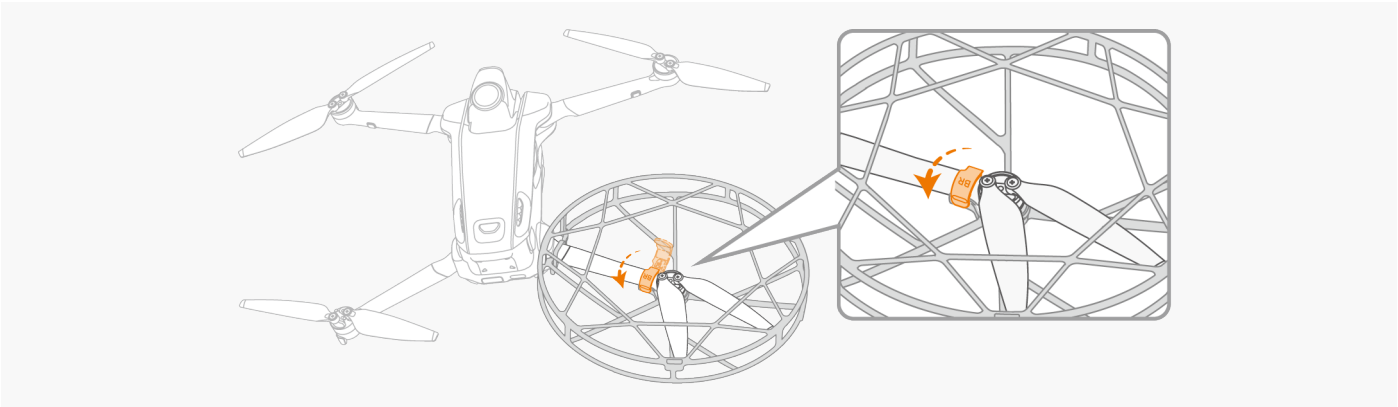


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7. Fold and stow the propellers to allow access to the latch.



8. Lock the latch to secure the propeller guard.



1. The propeller guard assembly with “B” marking must be installed on the rear arm.
2. Check the markings on the propeller guard assembly latch. Install the propeller guard marked “F” on the front arm, then install the propeller guard marked B on the rear arm.

Propellers

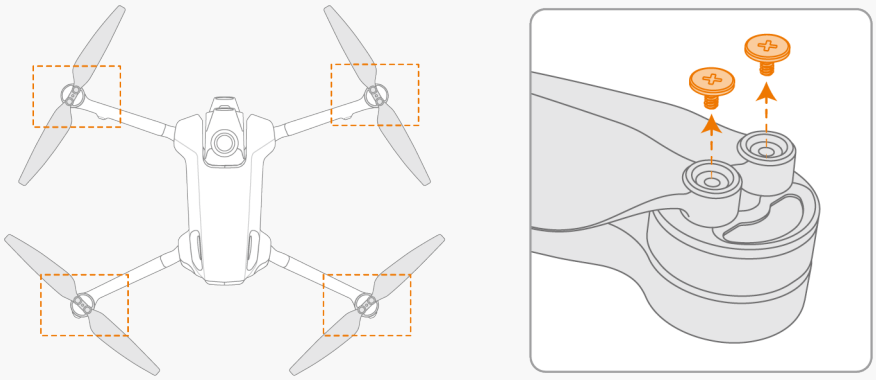
Propellers are consumables. Inspect them for damage after every flight. Check propellers regularly and replace them as needed. The following sections explain how to replace the propellers on the drone correctly.

How to Replace Propellers

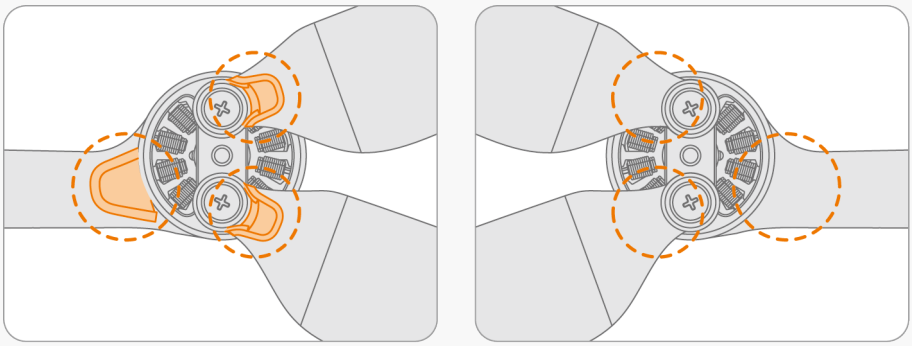
- Read this section carefully before performing any installation.
- When replacing old propellers, discard the pair of propellers from a given motor together with the used screws. Do not reuse them. When installing new propellers, use the two propellers from the same plastic bag together. Do not mix propellers from different packages.
- Propellers come in clockwise and counter-clockwise variants. Identify them by the markings on the blades before installing.
- Use the screwdriver included in the kit to remove or install screws.
- Do not use the included screwdriver to remove other parts of the drone.
- Do not press or squeeze the propeller blades when storing the drone.
- Do not modify the motors. Doing so may create safety hazards.
- Do not touch the motors until they have come to a complete stop. Doing so can cause injury.

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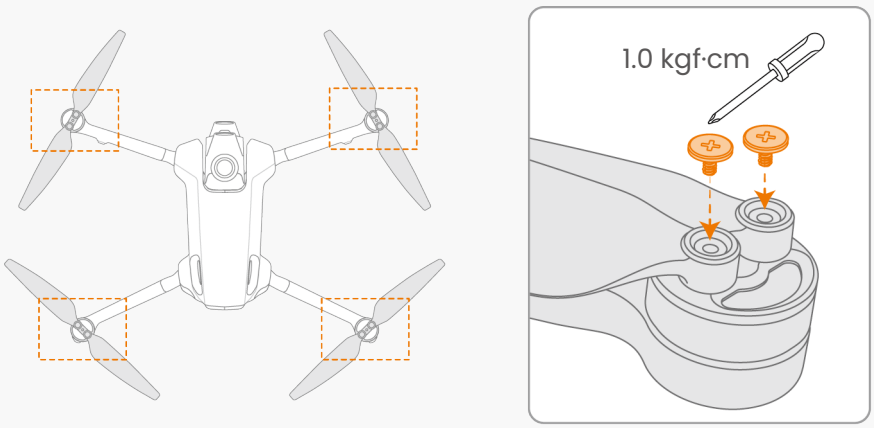
1. Use the screwdriver from the drone kit to remove the screws on the motor (M1.2 x 2).



2. Discard the removed propellers and screws. Do not reuse them.
3. Use the figure below to identify whether a propeller has a marking.



4. Install propellers with markings onto motors that have markings, and install unmarked propellers onto unmarked motors. Be mindful of torque when tightening the screws.



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Flight Battery

Flight Battery Safety Information

- Never expose the battery to humid environments, as this may cause the battery to self-ignite or explode. If the battery comes into contact with liquid, immediately remove it from the drone, place it in an open area, and contact technical support.
- Never use non-original batteries. The use of official charging equipment is recommended for optimal charging performance.
- Never use batteries that are swollen, bulging, leaking, or have damaged packaging or housing.
- Never use the battery in high-temperature environments, as this may cause the battery to catch fire or even explode. In low-temperature environments, battery performance is reduced; use with caution.
- Do not puncture the battery casing by any means.
- The electrolyte inside the battery is highly corrosive. In the event of leakage, avoid direct contact. If leaking fluid contacts the skin, immediately rinse with plenty of water and seek medical attention.
- Always keep the battery out of reach of children. If a child accidentally swallows a component, seek medical attention immediately.
- Never reuse a battery that has been dropped from height, exposed to water, or deformed by compression.
- In the event of a battery fire, extinguish it in the following order:
  a. If the battery is charging, immediately disconnect the charging equipment from power;
  b. Cover the battery with sand or a fire blanket;
  c. Remove flammable materials near the burning battery;
  d. Use a fire extinguisher rated for battery fires to extinguish the flames, and call the fire emergency number;
  e. Keep away from the fire source and observe the battery. Once there is no visible flame or smoke, use fire tongs to place the battery in a water container to prevent reignition;
- After the aircraft lands, allow the battery to cool down before charging to prevent issues.
- Do not place batteries near heat sources, such as inside vehicles on hot days, in direct sunlight, or near open flames.
- Charge the battery to at least 60% before long-term storage. Charge it to 60% every three months during storage to prevent over-discharge.
- Do not place batteries in fire or hot stoves, and do not subject them to mechanical squeezing or cutting.
- Do not expose the battery to extreme heat environments as it may cause the battery to explode or leak flammable liquids and gases
- Do not expose the battery to extreme low air pressure environments as it may cause the battery to explode or leak flammable liquids and gases.

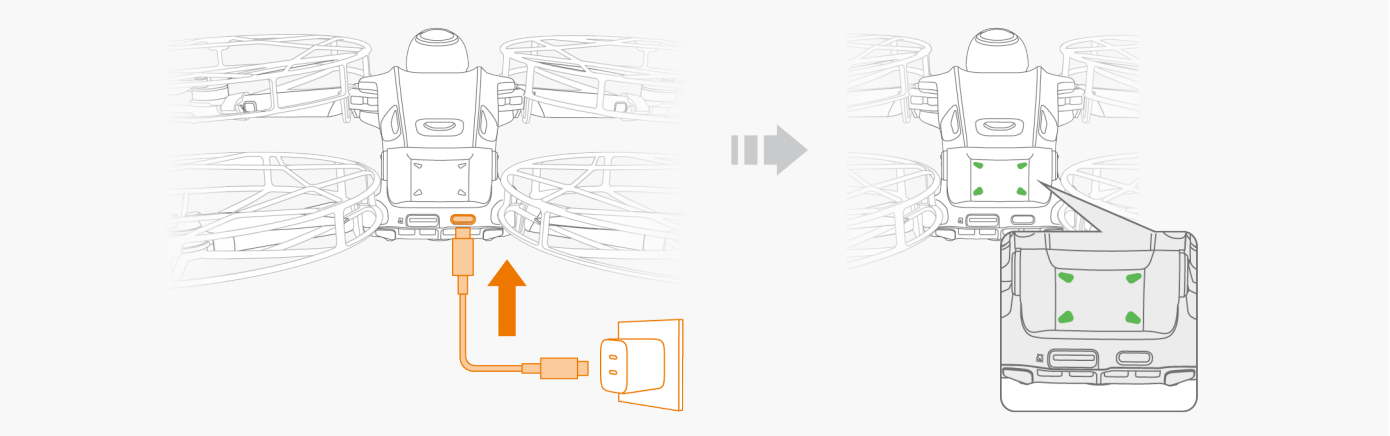
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Activating the Flight Battery

The battery is in sleep mode upon the delivery. You must activate it before the first use. Follow one of the two approaches to activate the battery.

Activate Using the Charger

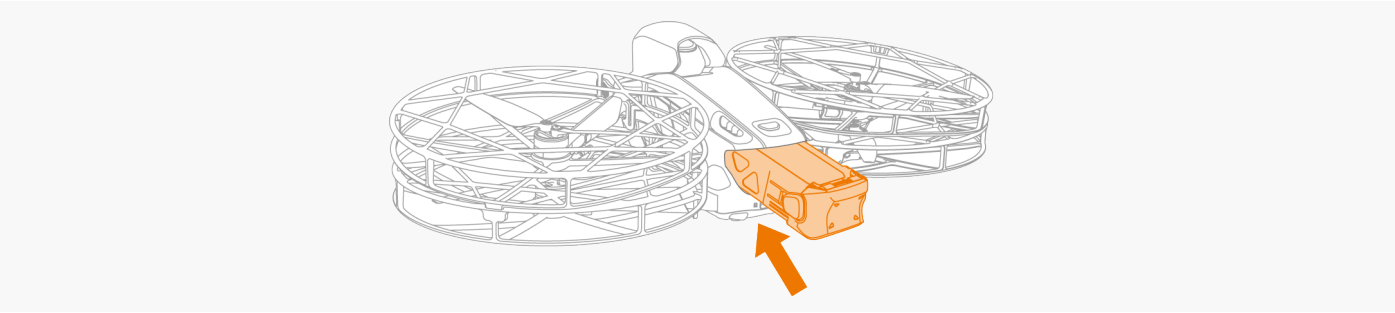
Connect the charging cable to the drone's USB-C charging port. After successful activation, the battery indicator will turn green.



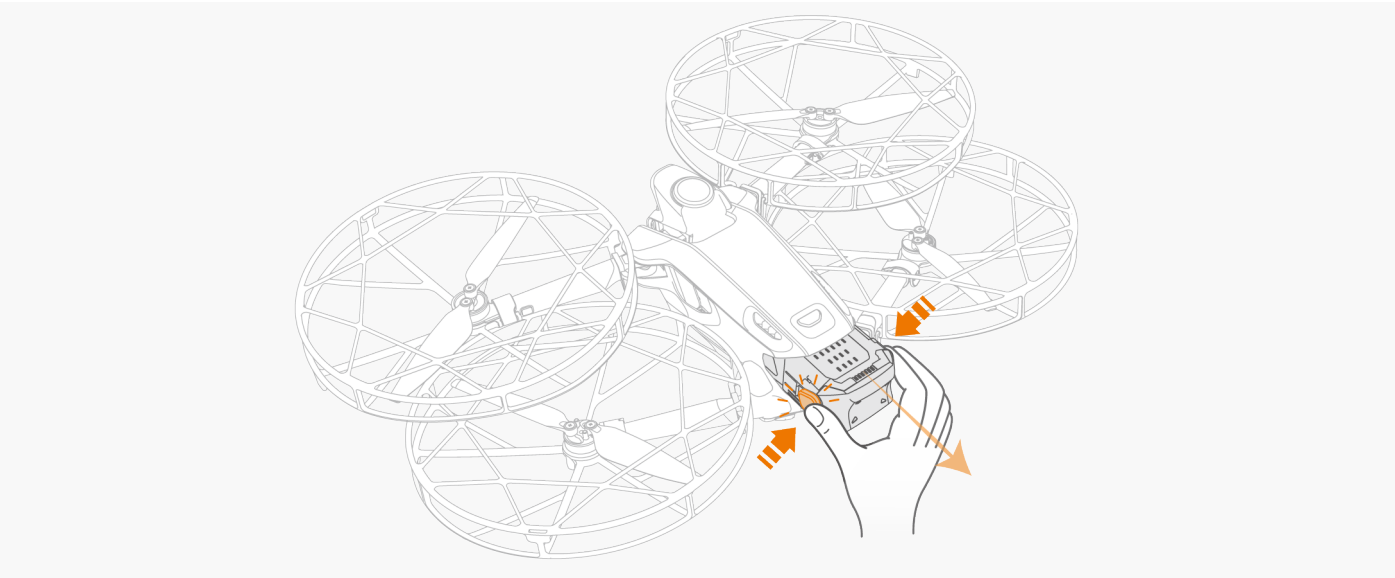
Using the Flight Battery

Battery Installation / Removal

Insert the battery into the battery compartment of the drone, then connect the drone to the power source. The LED indicators of the battery will flash green upon successful activation.



Press the battery latch on both sides of the battery, and remove the battery from the battery compartment.



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- Do not insert or remove the battery while the drone is powered on.
- Ensure you hear a click when inserting the battery. Do not remove the flight battery if not securely installed to avoid poor contact with the drone and potential danger.

Power On and Off

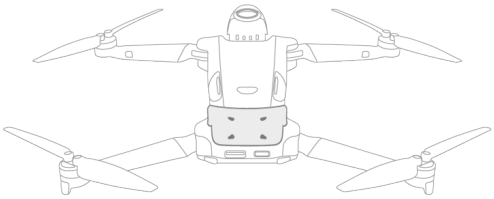
Press the power button on the drone body once, then press and hold for two seconds to power the drone on or off. When the drone is powered on, the battery level LEDs on the touch area of the flight battery display the battery level. When the drone is powered off, the LEDs turn off.

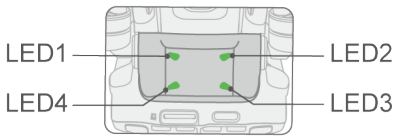
Data integrity of the flight recorder may be compromised if you do not follow the instructions to power off the drone.

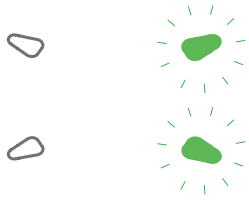
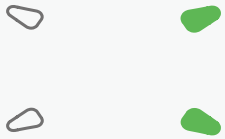
Updating the Flight Battery Firmware

Insert the battery into the drone, power on all three devices and launch the Antigravity App. Follow the in-app instructions to update the firmware.

The table shows the LED blinking pattern during the firmware update.





LED Indicator Flashing Patterns	LED1	LED2	LED3	LED4	Firmware Update Status
	◎	◉	◉	◎	Firmware is downloading.
	◎	●	●	◎	Firmware update failed.

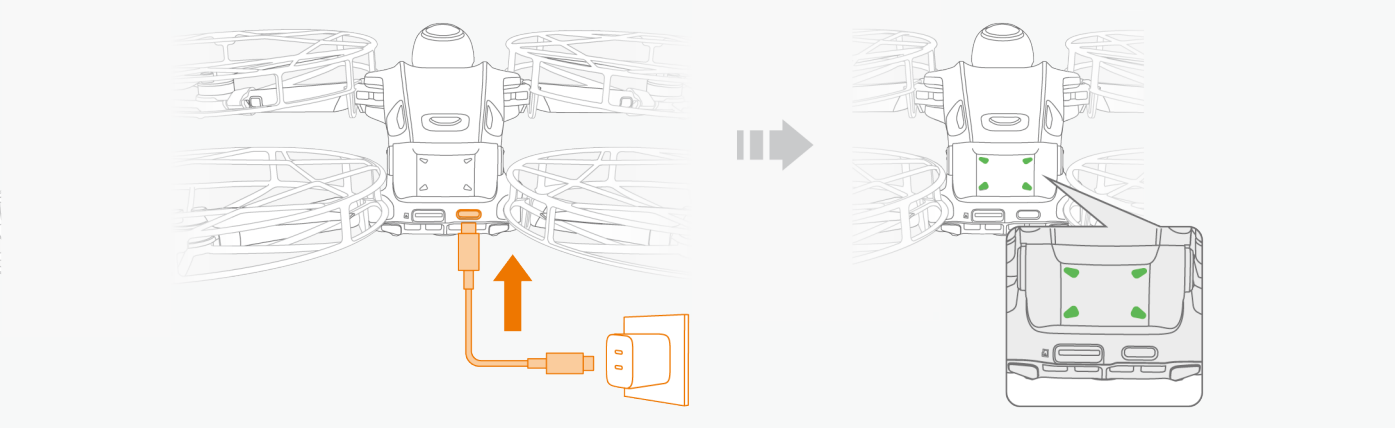
If the firmware update fails, insert the flight battery into the drone again and power it on. Retry the firmware update from the Antigravity app.

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Charging the Flight Battery

Using the Charger

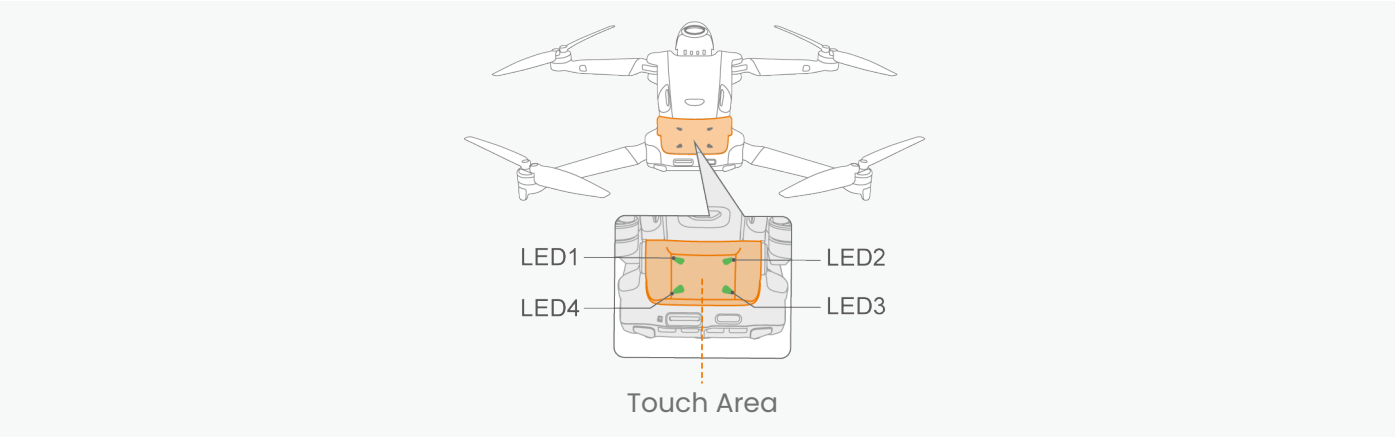
1. Ensure the battery is properly installed in the drone and that the drone is powered off.
2. Select an appropriate power adapter plug and connect the charger to an AC power source.
3. Connect the charger to the drone's charging port.



4. During charging, the battery LED indicators will flash in sequence. Briefly press the drone's power button to display the current battery level.
5. Once charging is complete, the battery LED indicators will turn off.

Battery Level Indicators

Tap once on the touch panel to check the battery level.



The LED indicators and corresponding battery levels are shown in the table below.

LED1	LED2	LED3	LED4	Battery Level
●	●	●	●	88% - 100%
●	●	●	◉	76% - 87%
●	●	●	◎	63% - 75%
●	●	◉	◎	51% - 62%
●	●	◎	◎	38% - 50%
●	◉	◎	◎	26% - 37%
●	◎	◎	◎	13% - 25%

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◉	◎	◎	◎	0% - 12%

LED indicator legend:

◉ Indicator solid on ◉ Indicator flashing ◎ Indicator off

1. If the battery level drops to one LED bar, please recharge the battery to at least three LED bars within one week to prevent over-discharge.
2. We recommend checking the battery level every three months. If you find that only one LED bar is lit, please recharge the battery promptly.

Transferring Footage

For scenarios that involve transferring large amounts of captured footage, we recommend using the Flash Transfer Companion to export data from the drone to your video editing device.

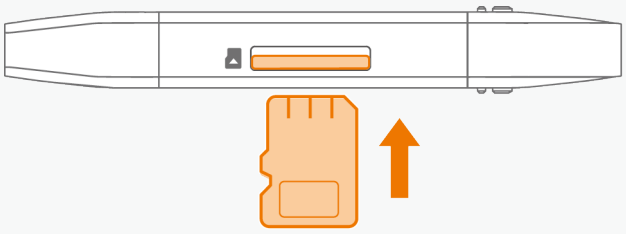
Quick Reader

To transfer extensive footage for editing, it is recommend using the Antigravity Quick Reader to export data from the drone to your editing device.

1. Power off the drone and remove the memory card from the drone.

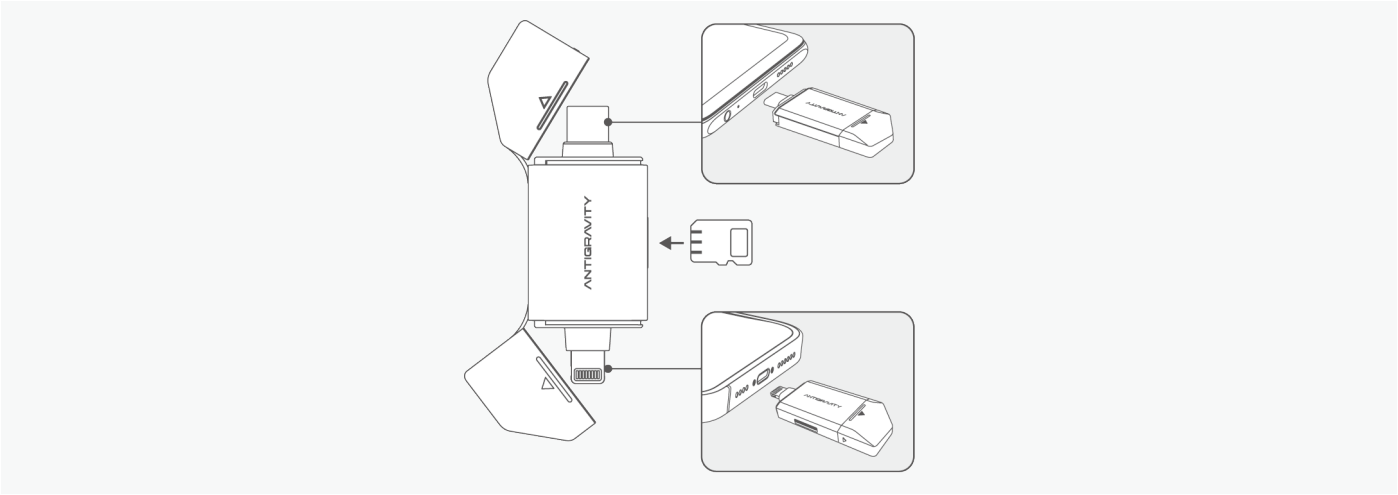


2. Insert the memory card into the slot on the side of the Flash Transfer Companion.



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3. Remove the cap for the connector you need and plug the Flash Transfer Companion into your device.



4. Open the Antigravity App on your mobile device and grant the requested permissions for the device or folder when prompted.
5. You can now download, export, delete, and perform other basic operations on the files in the Album of the Antigravity App.

- Do not rename files while using the Flash Transfer Companion.
- The Flash Transfer Companion currently does not support exporting files from the memory card in the flight goggles.

Transfer Footage from Antigravity App

Apart from using the Quick Reader, users can also quickly transfer the footage captured by the drone to their mobile device through wireless connection via the app. Please follow the steps below to export the footages:

While using Quick Transfer, you will not be able to take off with the drone.

1. Power on the drone. Turn on Bluetooth and Wi-Fi on your mobile device.
2. Open the Antigravity App and select Connect Drone.
3. On the Album page of the App, select Quick Transfer - Connect Device - Connect.
4. Once connected, the App will display the list of files on the drone. Select the files you want and download them.

Vision and Infrared Sensing System

Main Features

The drone is equipped with downward and forward vision systems as well as an infrared sensing system. Working together, these systems provide robust protection for flight safety. The main features of vision and infrared sensing systems include:

1. Visual Perception:

Construct a three-dimensional model using cameras, infrared TOF, and AI algorithms to support autonomous obstacle avoidance, dynamic target tracking, and precise landing functions.

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2. Automatic Obstacle Avoidance:

The forwards obstacle avoidance system can detect obstacles in front of the drone ranging, ensuring safety during flight; the downward obstacle avoidance system is mainly used to detect obstacles beneath the drone, assisting the drone in avoiding collisions with the ground or other objects during takeoff, landing, and low-altitude flight.

Vision Sensing System Limitations

⚠ · **Environmental factors:**

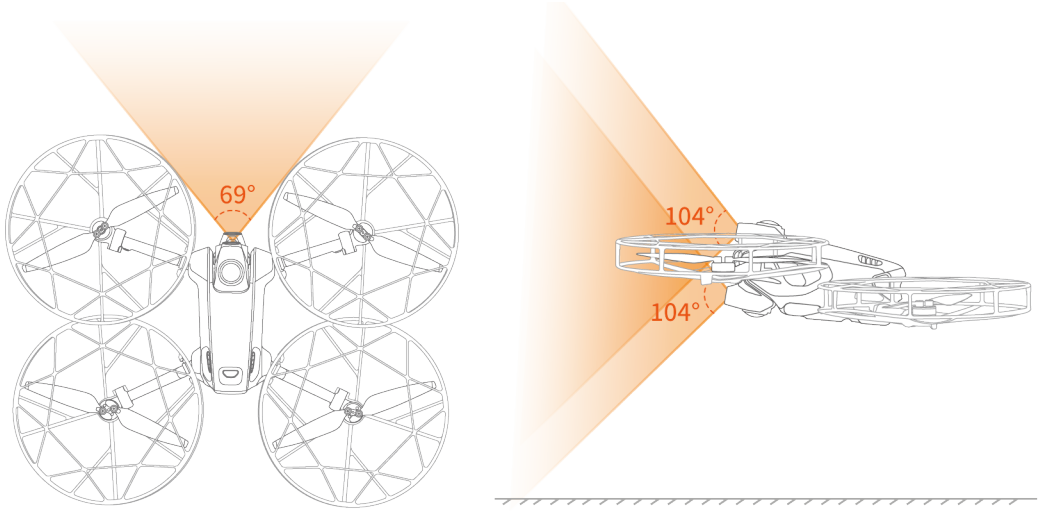
- The vision system and infrared sensing system only operate in specific scenarios and cannot replace manual control and judgment. In low-light environments, the vision system may not perform optimally even with the fill light on.
- When the drone flies close to water (about 3 meters), the downward vision system may not work properly. Fly with caution.
- The vision sensing system cannot accurately identify large structures with frames and cables.
- May not work properly near surfaces with no distinct pattern changes, or where lighting is too dim or too bright (such as monochrome surfaces, highly reflective surfaces, water or transparent surfaces, moving surfaces, areas with frequent and dramatic light changes, extremely dark or bright surfaces, surfaces that strongly reflect or absorb infrared, surfaces without distinct patterns or textures, surfaces with repeating identical patterns or textures, or near obstacles with small reflective areas).

· **Flight Altitude:**

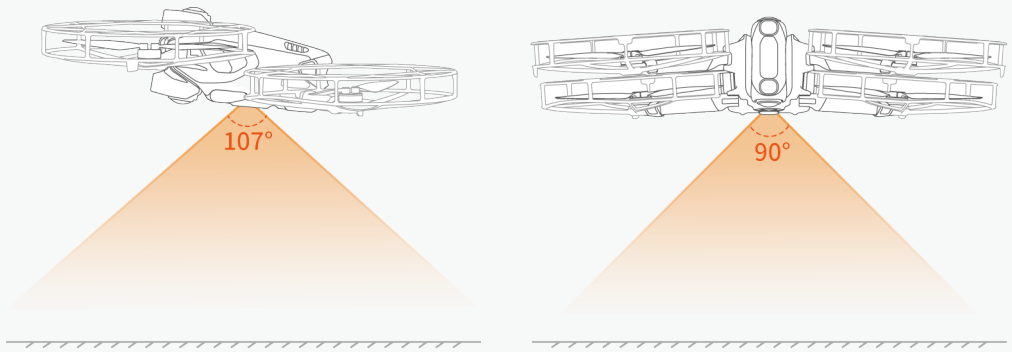
- When the Global Navigation Satellite System (GNSS) signal is weak, the downward vision system performs best when the drone is between 0.3 meters and 7.5 m above the ground. If the drone flies above 10 meters, visual positioning performance may degrade.

Vision and Infrared Sensing System Detection Range

Detection Direction	Range	FOV
Forward	0.5 m to 18 m	Horizontal 69°, Vertical 104°

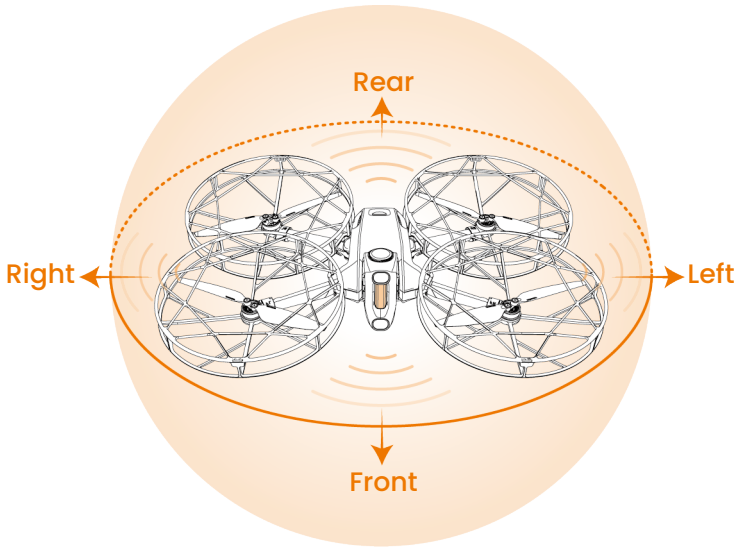


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		Horizontal 107°, Vertical 90°
Downward	0.3 m to 7.5 m	

Omnidirectional Obstacle Avoidance Detection Range

In addition to the forward and downward obstacle avoidance, the drone fuses image information from the 360° panoramic camera to achieve full 360° omnidirectional obstacle avoidance. In well-lit environments, the system can effectively identify obstacles within a certain range around the drone and automatically perform the appropriate avoidance maneuver (such as hovering or going around).

Detection Direction	Obstacle Detection Distance	Detection Range
Front, Rear, Left, Right	As close as 0.5 m	

· Environmental factors:

· Omnidirectional obstacle avoidance only works in supported scenarios and cannot replace manual control and judgment. In low-light environments, avoidance performance is affected and obstacles may not be detected effectively. Fly with caution in such cases.

· When the drone flies close to water (about 3 m), the downward vision system may not work properly. Fly with caution.

- May not work properly near surfaces with no distinct pattern changes, or where lighting is too dim or too bright (such as monochrome surfaces, highly reflective surfaces, water or transparent surfaces, moving surfaces, areas with frequent and dramatic light changes, extremely dark or bright surfaces, surfaces that strongly reflect or absorb infrared, surfaces without distinct patterns or textures, surfaces with repeating identical patterns or textures, or near obstacles with small reflective areas).

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Flight Recorder

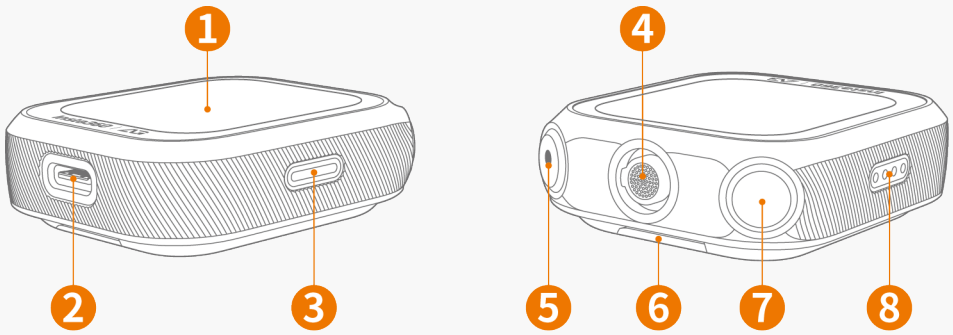
After each takeoff and landing, the drone automatically saves data — including flight telemetry, flight status information, and other parameters — to the built-in storage card. Users can access this data through the application (Antigravity App).

Watch Remote

The Watch Remote is the primary control device for the drone in this bundle. It features a touchscreen and physical buttons that provide quick access to video recording and the emergency brake. The Ring Remote is a wearable controller equipped with a shutter button and an indicator light; once paired with the Watch Remote, it triggers photo and video capture with a single tap during flight.

Buttons and Ports

Watch Remote

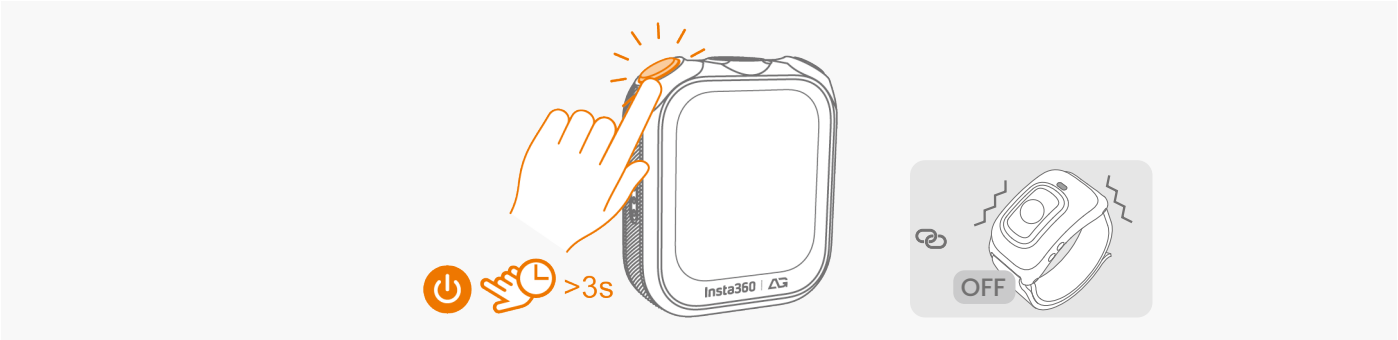


No.	Description	No.	Description
1	Touchscreen	5	Multi-Function Button
2	USB-C Port	6	Latch
3	Status Indicator	7	Power Button
4	Microphone*	8	Speaker

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Power Button

- When the Watch Remote is powered off, press and hold the Power Button to turn on the Watch Remote.
- Press and hold the Power Button for 3 seconds to power off the Watch Remote when it is not connected to the drone.
- To power off the Watch Remote while connected to the drone, press and hold the Power Button for 3 seconds to access the shutdown menu to power off the Watch Remote.



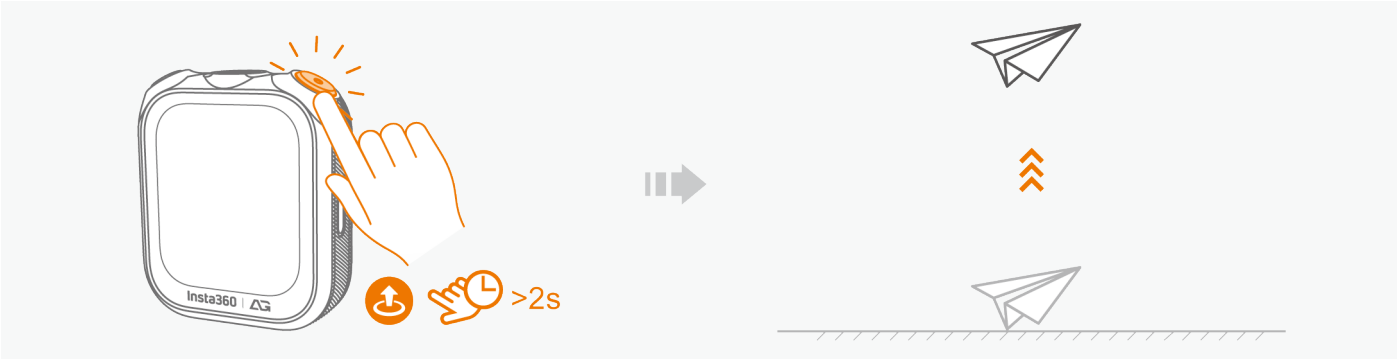
Note: When the Watch Remote is powered off, the connected Ring Remote will also turn off automatically. No user intervention is required.

Multi-Function Button

The Multi-Function Button on the Watch Remote controls several key actions, including takeoff and landing, video recording, and emergency braking. Refer to the sections below for detailed instructions:

Takeoff

When the drone has not yet taken off, press and hold the Multi-Function Button for more than 2 seconds to trigger takeoff.



Recording Video

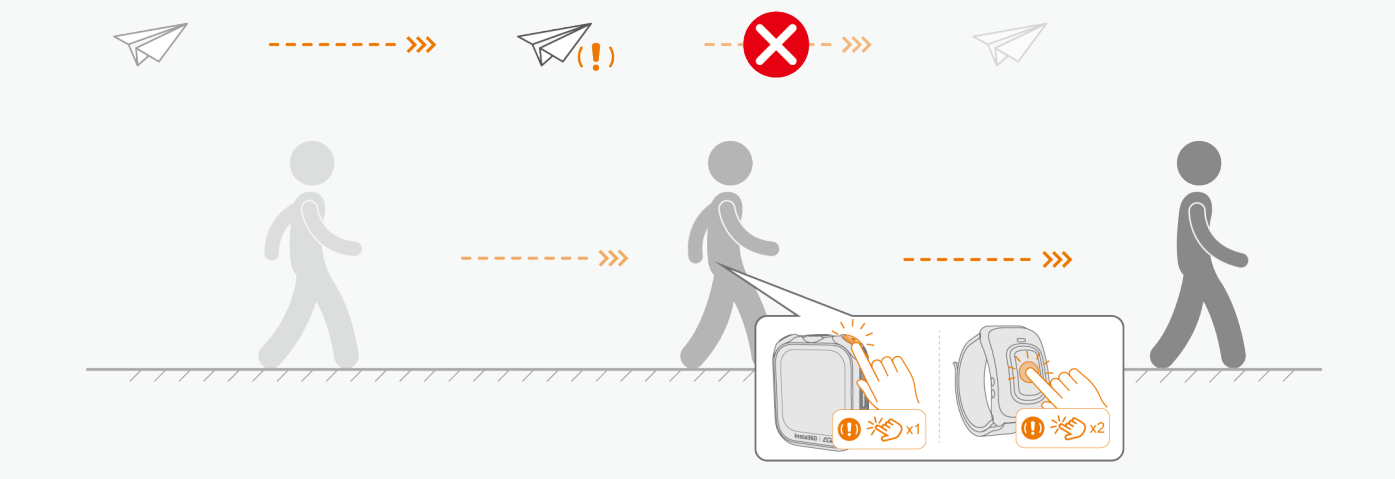
Press the Multi-Function Button once to start recording, and press it once more to stop and save the recording.



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Emergency Brake

To immediately abort a flight task and brake, press the Multi-Function Button on the Watch Remote once, or double press the button on the Ring Remote.



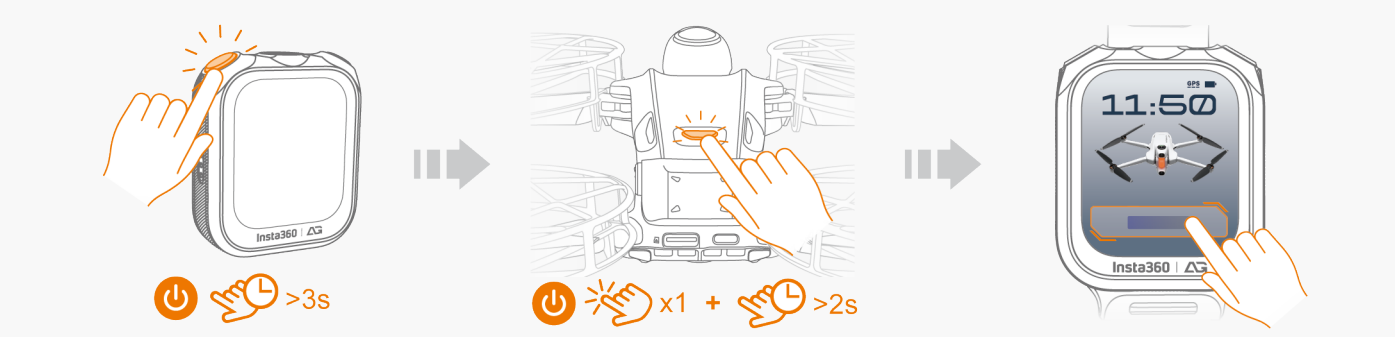
Status LED

Device Status (Connected to Drone)	Blinking Pattern	Indicator
Standby	Solid green	
Charging	Solid orange	
Storage full	Solid yellow	
Recording	Flashing red	
Powered off	Off	

Connecting the Drone

Linking the Watch Remote to the Drone

1. Press and hold the Power Button to turn on the Watch Remote.
2. Press the Power Button briefly, then press and hold it to start the drone's power-on self-test.
3. In the Watch Remote menu, select the drone you want to connect to by its drone ID.



- Make sure the drone and remote firmware are updated to the latest version available on the official website.
- Once successfully linked, the pairing of the Watch Remote and the drone remains persistent until the Watch Remote is paired with a different drone.

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Controlling the Drone

Once the drone is connected to the Watch Remote, you can control the drone using the touch screen and buttons on the Watch Remote.

Live View Page

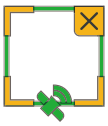
After connecting to the drone, the Watch Remote live page displays the following drone status and telemetry data:



No.	Description
1	**Obstacle avoidance status** Shows the current obstacle avoidance status. A red icon indicates that the system is inactive, while a white icon indicates it is active. For more information, refer to section ***"Obstacle Avoidance"***.
2	**Notification bar / pop-up messages** Display system alerts and warnings (e.g., low battery) requiring user attention.
3	**Video/Screen Recording Duration** Shows the elapsed recording time.
4	**Airplane Mode Menu** Displays flight mode setting such as the drone's orbit direction and follow distance.

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5



POI Tracking Box

White Box: Indicates a POI (Point of Interest) subject that is available for selection.



Green Box with Satellite: Indicates the POI subject is successfully tracked. Both visual and GNSS-power tracking are active.



Yellow Box: Indicates visual tracking on the POI subject is lost and the drone is actively attempting to re-establish tracking.



Yellow Box with Seatllie: Indicates the POI subject is temporarily lost, but the Watch Remote's GNSS signal is strong, and GNSS-based tracking is active. The drone is still tracking the POI subject in the absence of the visual tracking capability.



Satellite Icon: Indicates that GNSS-powered tracking is active. The drone continues to track the POI subject even when the camera's view is temporarily obstructed.



Cross: Cancels the current POI subject selection.



Cautions:

- You must enter DeepTrack or Sky Genie to enable the GNSS-powered tracking feature.
- While the GNSS-powered tracking feature provides tracking capabilities in the absence of visual tracking, it is not a replacement for the full tracking feature. Users should remain vigilant for the presence of yellow boxes and refrain from making rapid movements when visual tracking is not active. Users are advised to slow down and wait for the visual tracking feature to resume before continuing movement.
- The GNSS-powered tracking feature will continue tracking the POI for approximately 1 minute. If the GNSS signal deteriorates during this time, the drone will abort the current tracking session and hover.

6



Takeoff button

Press and hold to take off your drone.

7



Drag-to-Fly button:

Once tapped, the drone changes its position by following the direction in which the arm of the person wearing the watch moves.



Front button:

Tap to recenter the perspective. Note that this button will only appear when the line of sight deviates from the drone's forward direction.

8



Radar Chart

Radar diagram showing the relative position of the drone and the tracked subject.

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9		**Drone battery level** Shows the current flight battery level and the estimated remaining flight time. Once the Watch Remote and Ring Remote are connected to the drone, tap this icon to view the remaining battery level of each device. ⚠ At high altitudes, the battery drains faster and may trigger forced landing earlier. Fly with caution.
10		**GNSS and Bluetooth signals strength** Provides real-time information on the satellite signals detected by the drone and the Watch Remote, and the signal strength. · The icon is white when the video down link signal is strong, and turns gray when the signal is lost. · The icon is orange when signal strength is moderate, and turns red when the signal is very weak.

Video Shooting Settings

On the preview page, swipe from left to right to enter the shooting specifications settings page, where you can configure the shooting specifications for the current mode of the connected drone.

Camera 3A Parameter Settings

On the preview page, swipe from right to left to enter the 3A parameter settings page, where you can configure the 3A parameters for the current mode of the connected drone.

Photo and Video Capture

In preview state, press the shutter button briefly to start recording or capture a photo with the drone's camera. While recording, press the shutter button briefly again to stop recording.

Screen Lock

You can enable the screen lock from the quick menu to prevent accidental touches.

Settings

On the quick menu page, tap "Settings" to view or change the following: Flight & Safety Settings, Sensor Calibration, Find My Drone, Time, Storage Management, Language, About Remote, and Factory Reset.

Watch Remote Firmware Update

Firmware updates enable performance improvements, new features, as well as providing reliability fixes for your drone and accessories. Please be sure to update the firmware to the latest version when prompted or upon using the product for the first time.

⚠ **Cautions:**

- Ensure sufficient battery level on all devices before updating (drone, Watch Remote, and Ring Remote should all be at least 50% charged).
- Do not power off, remove the battery, or exit the app during the update. Doing so may cause device malfunction.
- Firmware updates require an internet connection. Ensure a stable network.
- Updating the firmware of the Watch Remote via Antigravity Sync is not yet supported.

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Before You Begin

1. Update the Antigravity App to the latest version.
2. Power on the drone, the Watch Remote, and the Ring Remote, and confirm that all three devices have been linked.
3. Ensure all devices and the mobile device running the Antigravity App are on the same Wi-Fi network, and that all devices are connected to the Antigravity App.
4. Place the drone on a level, stable surface.

Watch Remote Firmware Update Instructions

1. Open the Antigravity App and make sure you are signed in.
2. Go to My → Settings → Firmware Update.
3. The App will automatically detect the current firmware version of connected devices. The App will prompt you if there is an update available.
4. Tap “Update Now” and follow the on-screen prompts to confirm which devices to update.
5. Keep the App in the foreground during the update. A typical update will take approximately 10 to 15 minutes, depending on the package size and network conditions.
6. Once all devices are updated, the App will display “Update Successful”, and devices will restart automatically.

Tips:

- If a firmware update is required after the drone activation, you should complete activation first, then perform the firmware update.
- Be sure to check for latest firmware updates before each flight or whenever you connect a new device.

Troubleshooting

If the update fails, try the following steps in order:

1. Check for a stable internet connection. Switch to Wi-Fi or a hotspot and retry.
2. Confirm all devices are sufficiently charged (≥ 50%).
3. Restart the drone, the Watch Remote, and the Ring Remote. Reconnect to the Antigravity App and try again.
4. If none of the above steps resolve the issue, note the error code displayed on screen and contact Antigravity Customer Support.

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Watch Remote Usage Precautions

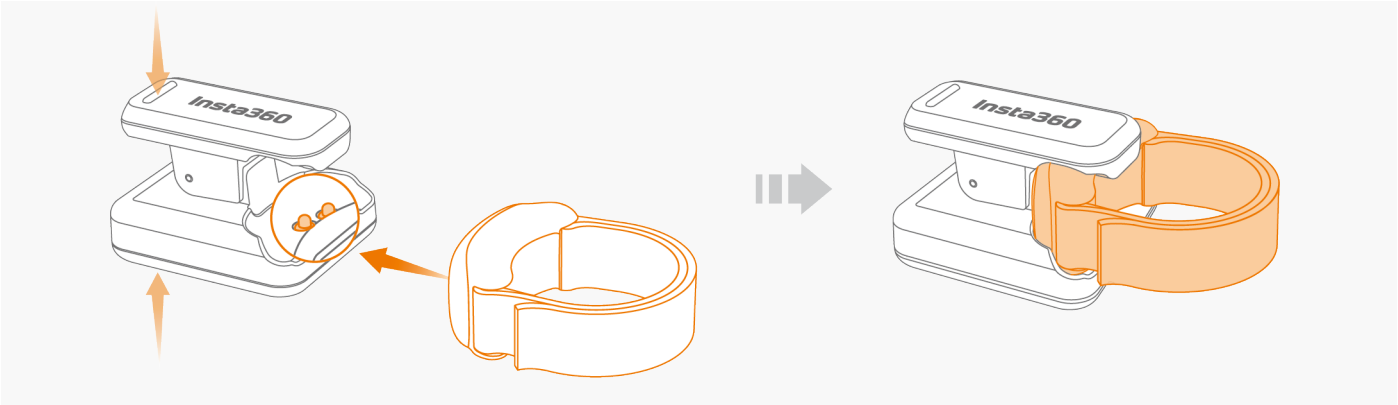
- This product contains magnets. Keep it away from devices susceptible to interference, such as pacemakers.
- Operate the product in temperatures between -20°C and 40°C.
- If not used for a long time (e.g., two months), the product battery may be depleted. Charge and power on the product promptly.
- Do not subject the product to mechanical impact, crushing, or throwing. Do not place heavy objects on it.
- Do not place the product in direct sunlight (e.g., on a windowsill or car dashboard) or near heat sources (e.g., stoves or heaters).
- If the product is splashed with water, wipe it dry as soon as possible. Do not wear it while swimming, diving, or going underwater.
- Do not use any cleaning liquids on the product. Do not wipe the charging port with detergents, as this may cause corrosion and rust that impair the remote's operation. Use a soft, dry cloth for cleaning.

Ring Remote

Charging and Battery Indicator

Charging

Place the Ring Remote into the charging clip so that the charging contacts on both make full contact. Use a 5V/1A power adapter connected to the USB-C port on the charging clip to charge it. It takes about 1.5 hours to fully charge and provides about 5 hours of life time.



Note: If pressing the ring button after unboxing does not light the indicator, charge the device for a while before using it.

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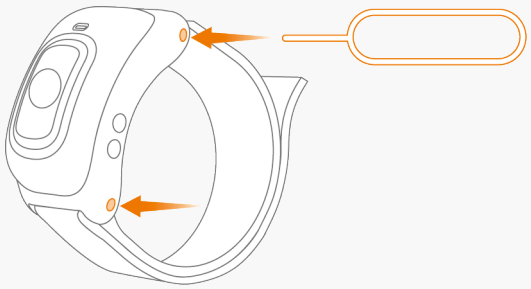
Indicator Light

Indicator	Device Status
Blue light blinking	Powering on or off, pairing with the camera, or taking a photo
Solid blue	Connected to the camera
Solid red	Charging
Red light blinking	Recording
Yellow light blinking	Battery level ≤ 30%

How to Wear

Wearing the Ring Remote on Your Finger

Adjust the tightness of the Velcro on the ring band to suit your wearing habits. To replace the Velcro, use a tool to push out the pin at the position shown in the figure.



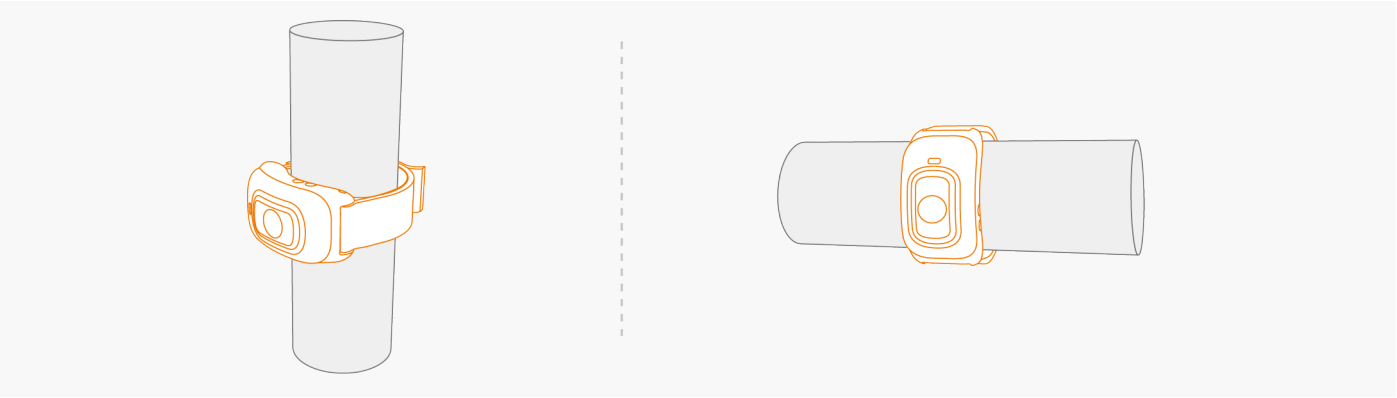
Note:

- After putting it on your finger, carefully check that it is worn correctly and that the Ring Remote's indicator light is not blocked.
- The spring pin is small. Handle carefully to prevent it from springing out and getting lost.
- When installing a new ring band, ensure the spring pin is aligned with the connection hole and fully seated.

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Mounting on a Selfie Stick or Handlebar

First, remove the ring band, then attach the hook-and-loop (Velcro) strap to the ring. Wrap the strap around the selfie stick, handlebar, or similar object and fasten the hook-and-loop closure.



How to Use the Ring Remote

Power On / Off

Power On

When powered off, press the button once to turn on the Ring Remote. The blue light blinks to indicate it is attempting to connect to the Watch Remote. Once connected to the Watch Remote, the blue light stays solid, indicating a successful connection.

Power Off

First, turn off the Watch Remote to disconnect it from the Ring Remote. The Ring Remote will then give a vibration alert and the blue light will blink. Press and hold the button for more than 2 seconds to power off the Ring Remote.

Connecting the Drone

Power on the Ring Remote, then power on the drone and the Watch Remote separately. On the Watch Remote menu, tap “Connect”, then tap the ring button in the top-left corner of the watch screen and look for “Antigravity Ring”. Once connected, the blue LED on the Ring Remote will stay solid.

Controlling the Drone

Takeoff

After connecting to the drone successfully for the first time, press and hold the Ring Remote button for 2 seconds to trigger drone takeoff.

Drag-to-Fly

When the drone is hovering after takeoff, or when any of the follow modes is enabled, press and hold the Ring Remote button to enable Drag-to-Fly. Release the button to exit Drag-to-Fly immediately. For more information about Drag-to-Fly, refer to the ***“Flight Control”*** section.

Brake

When the drone is in an autonomous flight mode (including but not limited to Deep Track and Sky Genie), double-press the Ring Remote button to make the drone brake and hover immediately while stopping recording. The previously selected visual subject is not lost and remains locked.

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Video Recording

- Once the Ring Remote is connected to the drone, briefly press the button to take a photo or start recording video. If recording, press it again briefly to stop recording.
- When starting video recording, there is a long vibration; during recording, the red LED blinks continuously. When the recording stops, there is a short vibration.

Note:
- Make sure the drone firmware is updated to the latest version.
- The maximum effective range of the Ring Remote is 20 m (interference-free and unobstructed).
- After successfully pairing and connecting for the first time, you do not need to repeat the connection steps; the Ring Remote will connect directly to the drone next time.
- When the battery is low (≤30%), the Ring Remote cannot provide vibration feedback.

Ring Remote Firmware Update

Use the Antigravity App to update the firmware of the Ring Remote, follow the instruction below to complete the firmware update:

1. Press once briefly to power on the Ring Remote, the status LED should blink blue.
2. Open Antigravity App and go to Me > Accessory Settings, then search for and connect to the Ring Remote.
3. If a new firmware version is available, the App will display an update prompt. Follow the App's instructions to complete the Ring Remote firmware update.

Note:
- Ensure the battery level is ≥50% before performing a firmware update.
- Make sure the Ring Remote is disconnected from the Watch Remote before attempting to update the firmware from the Antigravity App.

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Ring Remote Usage Precautions

- The list of models compatible with Antigravity A1 is continuously updated. Check the official store for the latest compatible models.
- When wearing the Ring Remote, ensure the band fits snugly so the device does not fall off.
- Please operate this product within a temperature range of -2°C to 45°C and a humidity range of 0 to 75%.
- In low-temperature environments (below -2°C), the Ring Remote's vibration feedback may be temporarily disabled. The feature returns to normal once temperature recovers.
- The product is only splash-resistant. If splashed with water, wipe it dry as soon as possible, otherwise it risks damage.
- Keep water away from the USB-C port. If it gets wet, dry it with a soft, dry cloth.
- Do not dry the product with high heat or a blow dryer, to prevent the hook-and-loop closure from failing and the ring band or straps from deforming.
- Do not subject the product to mechanical impact, crushing, or throwing. Do not place heavy objects on it.
- Do not disassemble the product in any way.
- If not used for a long time (e.g., two months), the product battery may be depleted. Charge and power on the product promptly.
- Do not use any cleaning liquids on the product. Do not wipe the charging contacts with detergents, as the contacts may corrode and rust, affecting the Ring Remote's operation. Use a soft, dry cloth for cleaning.

Antigravity App

Connect the drone to your mobile device, then install and launch the Antigravity App to enter the home page. The home page mainly includes the following:

- View information on aerial photography spots, restricted flight zones, and policies; access tutorials for new features and product knowledge such as the user manual.
- Access the drone album and the local photo album on your phone, or use Studio to creatively edit videos and share them on social media.
- Log in to your account to view account information and flight records.
- Other features such as firmware updates and Find My Drone.

- Before each use of the Antigravity App, ensure your mobile device has sufficient battery.
- The Antigravity App uses cellular mobile data during use. Please contact your local carrier for data rate information.
- Carefully read all safety prompts, warnings, and disclaimers shown by the Antigravity App. Be sure to understand local regulations.
- Before using the Antigravity App, you must agree to the Terms of Use and Privacy Policy. Please read and understand the terms and policy carefully.

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Intelligent Flight

Deep Track

Tracking Modes

The A1 drone offers several tracking modes, including Deep Track, Circle Mode, Cycling Mode, and Ski Mode. This chapter describes how to use the tracking features and the precautions to take when using them.

	Deep Track	The drone automatically follows the locked visual target from a preset direction.
	Orbit Follow	The drone circles around the locked visual target while following it.
	Cycling Track	Same as Deep Track, with a configurable follow direction. Optimized for the characteristics of cycling to improve tracking performance.
	Ski Track	The drone follows at a fixed position behind the locked target.



The drone cannot automatically take photos or record video while tracking a target. You must manually start or stop capture using the remote control.

Deep Track

In this mode, the drone maintains a specific distance and altitude from the tracked subject while flying, and its speed and heading always follow the direction in which the subject moves.

Circle Mode

In this mode, the drone maintains a specific distance and altitude from the tracked subject while flying, and its speed and heading always follow the direction in which the tracked subject moves. The drone circles around the subject while following it, and the orbit direction can be set.**Cycling Mode**In this mode, the drone maintains a specific distance and altitude from the tracked subject while flying, and its speed and heading always follow the direction in which the subject moves



In Cycling Mode, the drone's tracking behavior dynamically adapts to the rider's speed and posture to achieve the best tracking and filming results.

Ski Mode

In this mode, the drone maintains a specific distance and altitude from the tracked subject while flying, and its speed and heading always follow the direction in which the subject moves.



Unlike Deep Track, in this mode the follow direction is fixed to the "rear" of the tracked subject.

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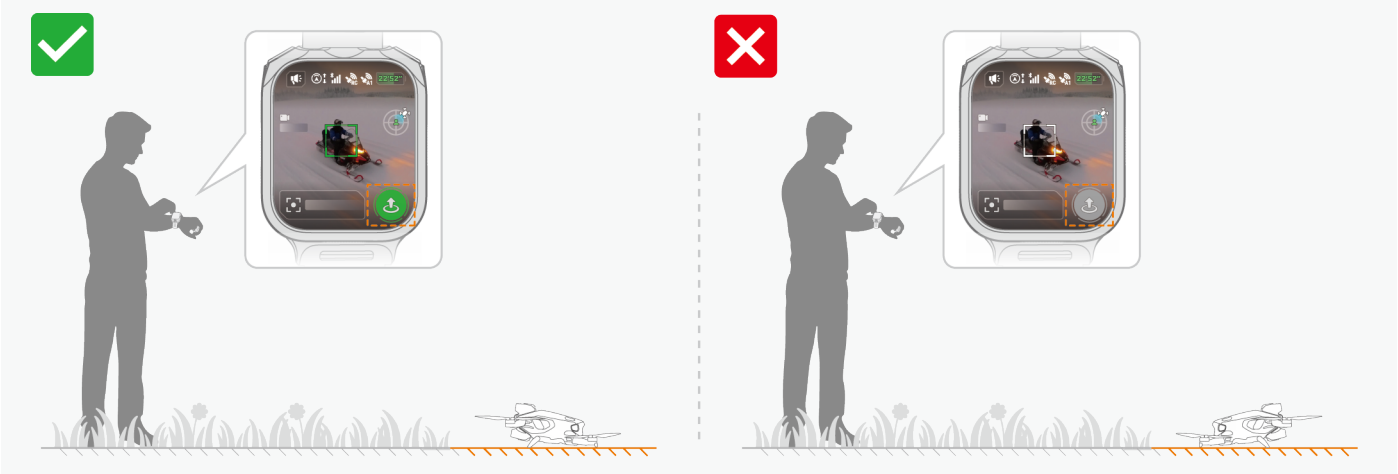
Recommended Tracking Distance

Tracking Subject	Person
Horizontal distance	3 - 10 m (3 - 6 m optimal)
Altitude	2 - 10 m (2 - 6 m optimal)

When locking onto a subject outside the recommended range, the drone will automatically find a suitable distance to follow. You can fine-tune the relative distance and altitude within the above range by applying additional stick input.

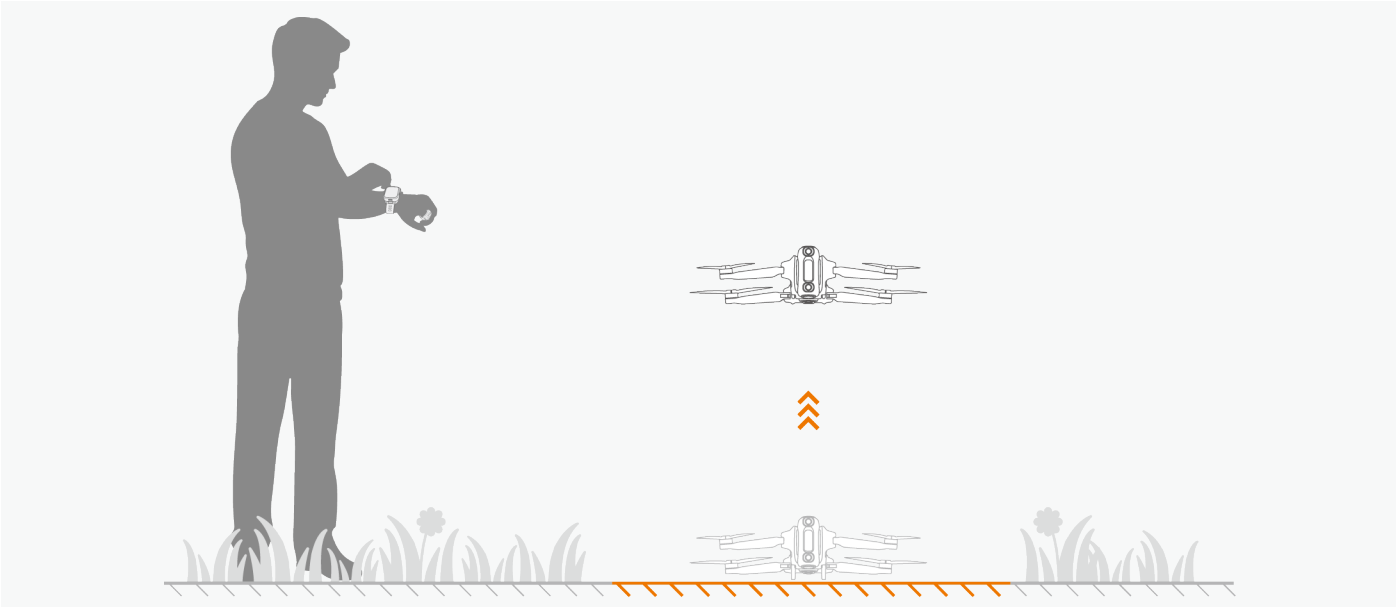
Using Deep Track

1. Place the drone with its nose facing toward you and ensure that visual tracking is enabled. Note that the takeoff button will be grayed out if you are not standing in front of the drone.



Caution:
Should environmental conditions (such as nighttime or low light)render Obstacle Avoidance unavailable, users must first acknowledge the warning message on the Watch Remote prior to using the Deep Track feature.

Take off the drone on level ground and wait until it reaches a safe altitude.



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2. Tap the Watch Remote screen and select a tracking mode.



3. After entering the selected tracking mode, tap the Watch Remote screen and drag the green-and-white bounding box to select the target you want to follow. Tap the white bounding box to confirm the target; when the bounding box turns green, the target is successfully locked.



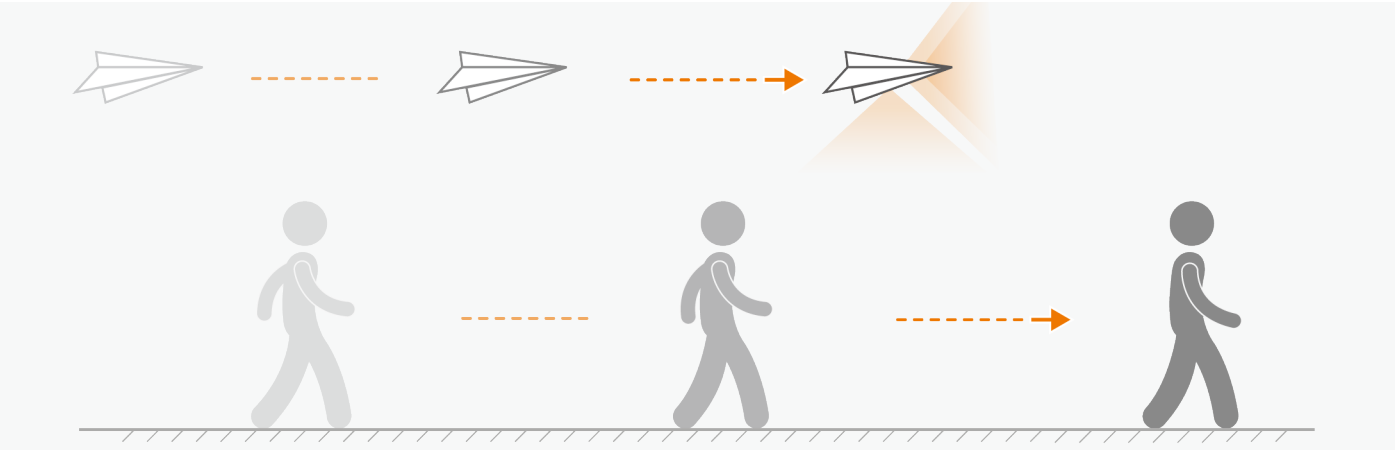
Note: Before confirming the start of tracking, if the automatic obstacle avoidance function cannot work properly due to external environmental constraints, the drone cannot start autonomous flight features such as Deep Track and Sky Genie.

4. After selecting a tracking target, tap the “Start” button on the Watch Remote. The watch will begin a countdown and sound a voice prompts. Upon the countdown completes, the drone enters tracking mode and start following the tracking target.



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5. Once tracking starts, the drone follows the target at the preset relative altitude and distance. You can start recording video whenever appropriate.

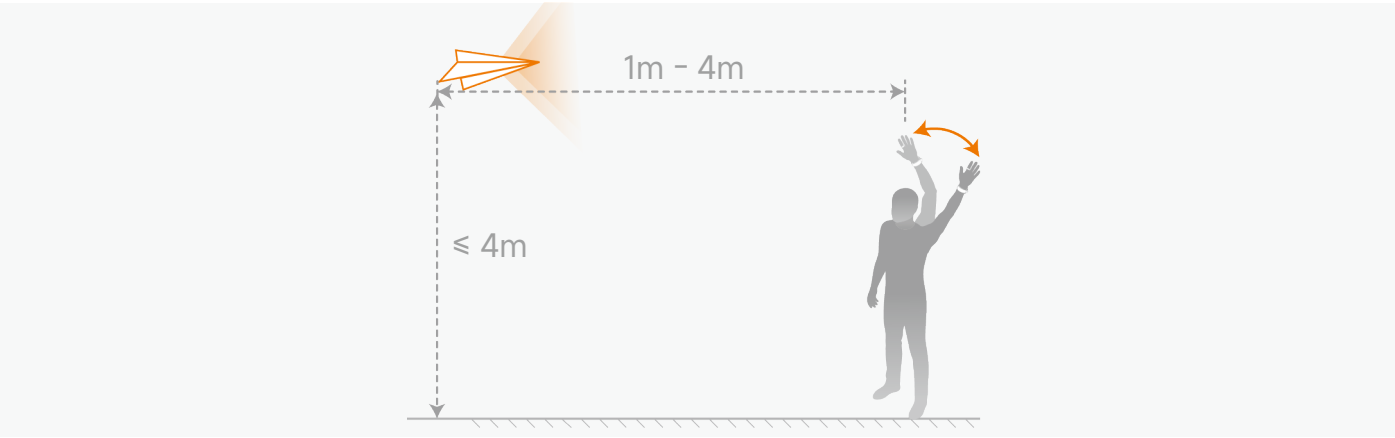


Note: While the drone is tracking the target, you can still use the Drag-to-Fly feature to adjust the drone's position relative to the tracked target. For more information, see the ***"Flight Control"*** chapter.

Wave-to-Track

In addition to manually selecting a target by tapping the bounding box on the watch, you can use the Wave-to-Track feature to select a tracking target simply by waving your arm toward the drone.

1. First, take off the drone and make sure its flight status meets the following conditions:
   a. Takeoff height: the drone's takeoff height is four meters or less.
   b. Relative distance: the horizontal distance between the drone and the operator is between one and four meters.



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2. Face the nose of the drone and, following the voice prompt, raise your arm straight up and wave it left and right. Wait about 3 seconds; if the drone successfully locks onto the target, the bounding box turns green and a voice prompt is issued, indicating the target is locked.



Tip: When multiple people wave within the frame at the same time, the drone selects the individual closest to it as the tracking target.

3. Start using the tracking or Sky Genie feature.

RTH During Tracking

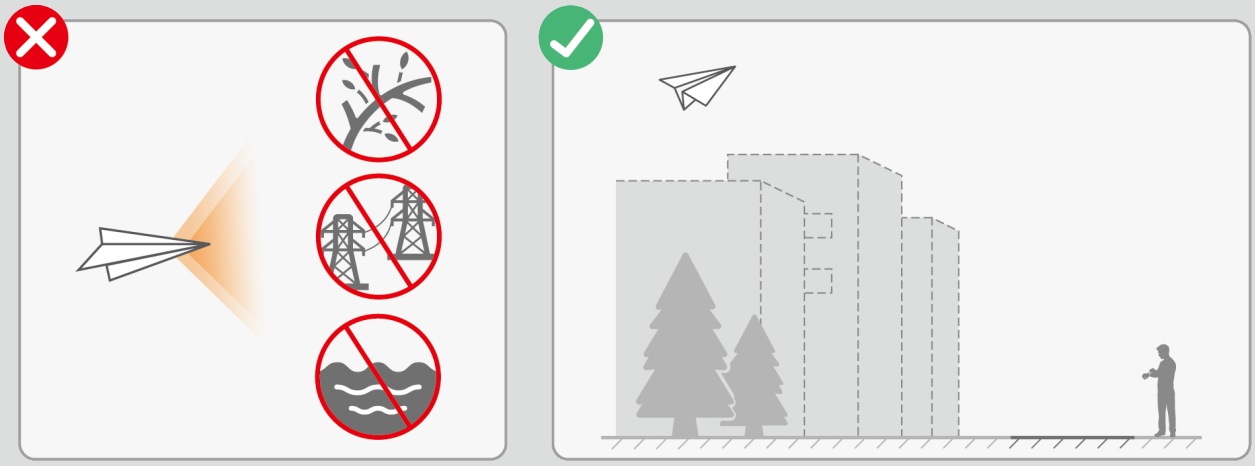
The RTH behavior for Tracking modes differs from that of other flight modes, such as Manual modes and Sky Genie. Users should read and understand this difference before initiating RTH while flying the drone in Tracking mode.

Instead of flying back to the Home Point and landing, the drone will land from its current altitude when RTH is initiated in Tracking mode.

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Precautions

- Be sure to use Deep Track in an open, well-lit environment; otherwise it can be dangerous.
- During tracking, the drone's obstacle avoidance remains active and can still detect obstacles in the direction of the drone's heading.
- Do not use Deep Track in areas with branch-like or fine objects (e.g., tree branches, high-voltage wires), transparent objects (e.g., water, glass), or monochromatic surfaces (e.g., white walls), as this may cause flight hazards.

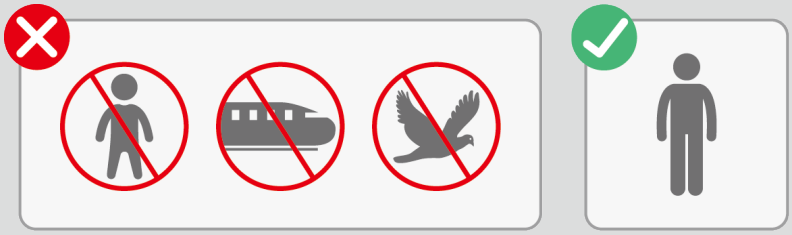


- Always monitor changes in the drone's obstacle avoidance status (e.g., the obstacle avoidance icon and popup prompts). When obstacle avoidance is unavailable, use Deep Track with caution.
- The drone has limited ability to avoid moving objects. During Deep Track, always watch out for people, animals, vehicles, and other objects in the environment.
- Do not use Deep Track in scenarios where autonomous obstacle avoidance is prone to failure; see the ***"Obstacle Avoidance"*** section.
- Be aware of the current distance-limit, altitude-limit, and flight-restriction-zone boundaries.

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Precautions for Choosing a Tracking Subject

- Fully consider privacy before enabling Deep Track, and be sure to comply with local privacy laws and regulations.
- Among the supported bounding-box targets, “Person” refers specifically to adults. Do not select children or minors as tracking targets.



- Due to system limitations, if the tracked subject’s shape changes significantly (e.g., suddenly crouching), the drone may not be able to keep tracking the subject safely. Fly with caution.
- Use Deep Track with caution in the following scenarios:
  - The target moves on non-level ground;
  - The target undergoes significant shape changes while moving;
  - The target is occluded for a long time;
  - The target’s color or pattern is very similar to the surroundings;
- If the target identified by bounding-box selection or Quick-Lock is not a person carefully judge whether to continue tracking.
- When the tracked target overlaps with another object, the tracking target may switch unexpectedly.
- If the target is occluded and lost, the drone will maintain its current heading and speed and continue flying for 10 seconds to try to re-identify the target. If the target is not re-identified within 10 seconds, the drone will prompt you to reselect a tracking target.

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Sky Genie

Introduction to Sky Genie

Sky Genie provides a collection of predefined flight paths that the drone can executes automatically, enabling users to recreate professional cinematic footage with minimal effort. This feature allows you to replicate complex maneuvers with just a single tap.

- While Sky Genie is running, the drone's actual flight direction does not always align with the real-time preview view. Continuously monitor the surroundings and take over the drone in time to avoid obstacles when necessary.
- Use Sky Genie only in open, unobstructed environments. Ensure there are no tall buildings or obstacles near the flight path, and that no people, animals, or obstacles other than the subject are present on the flight path.
- Do not use Sky Genie in the following scenarios:
  - The subject is occluded for a long time and is out of visual range.
  - The subject moves out of visual range, so the flight status cannot be judged by the naked eye.
  - The subject is in the air.
  - The subject's color is too similar to the surroundings.
  - In scenes that are too dark or too bright.
  - When the satellite signal is poor and the subject is near tall buildings.
- When performing orbit-style shots, ensure the flight path is free of trees, wires, and other thin branch-like objects, or stay well clear of such obstacles. Otherwise, flight safety may be affected.
- Although automatic obstacle avoidance provides a degree of safety, it can never replace manual control. While using Sky Genie, stay alert at all times and be ready to take over with the remote control to ensure flight safety.
- When using Sky Genie, be sure to comply with local privacy laws and regulations.

Sky Genie currently supports the following cinematic effects:

	Fly Away	The drone flies diagonally upward while gradually moving away from the subject.
	Ascend	The drone flies straight up, moving farther and farther from the subject.
	Spiral Ascent	The drone ascends in a spiral while gradually moving away from the subject.
	Oval Orbit	The drone flies along a tilted elliptical path, first circling behind the subject and then flying back to the starting point to film.
	Arc Shot	The drone first flies straight toward the subject, then performs a small arc maneuver before resuming straight flight.
	Arc Out	The drone flies along an elliptical path; after completing one loop, it flies diagonally upward while gradually moving away from the subject.

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	Antigravity Line	The drone flies quickly toward the subject and make a banked turn after passing it. The perspective of footage will quickly switches from the forward (nose) direction to the direction of the locked subject.

Using Sky Genie

1. With the drone not yet taken off, briefly press the Power Button on the watch once, or tap the flight mode menu at the bottom of the screen.



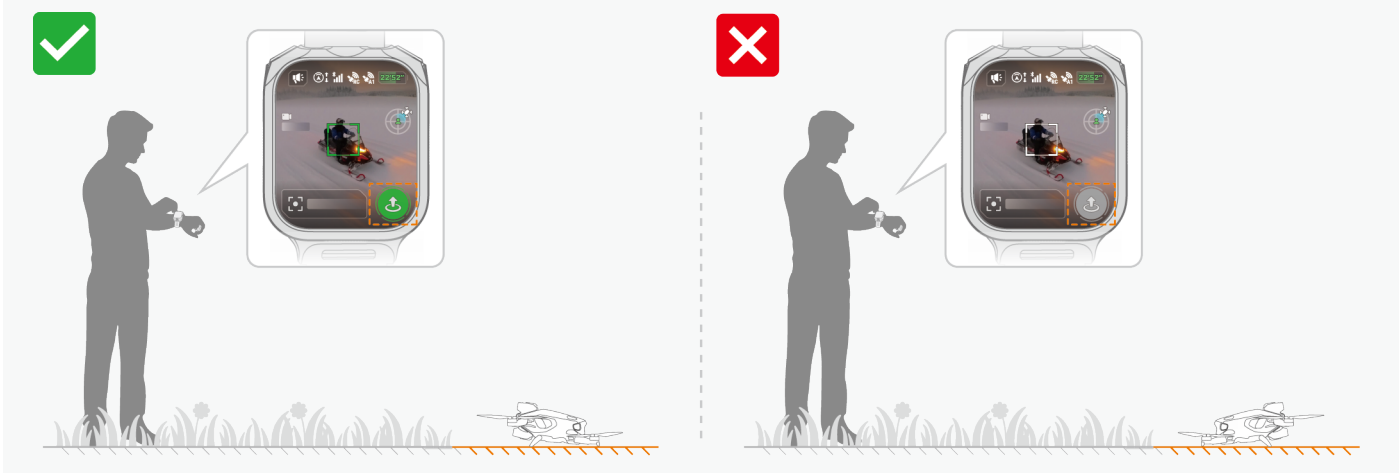
2. As shown below, swipe right to select the cinematic mode you want, then tap the icon to confirm your choice.



3. After entering the submenu, select the Sky Genie settings you want to use based on your creative needs. When finished, tap the back icon in the upper-left corner, or briefly press the Power Button again to confirm the settings.



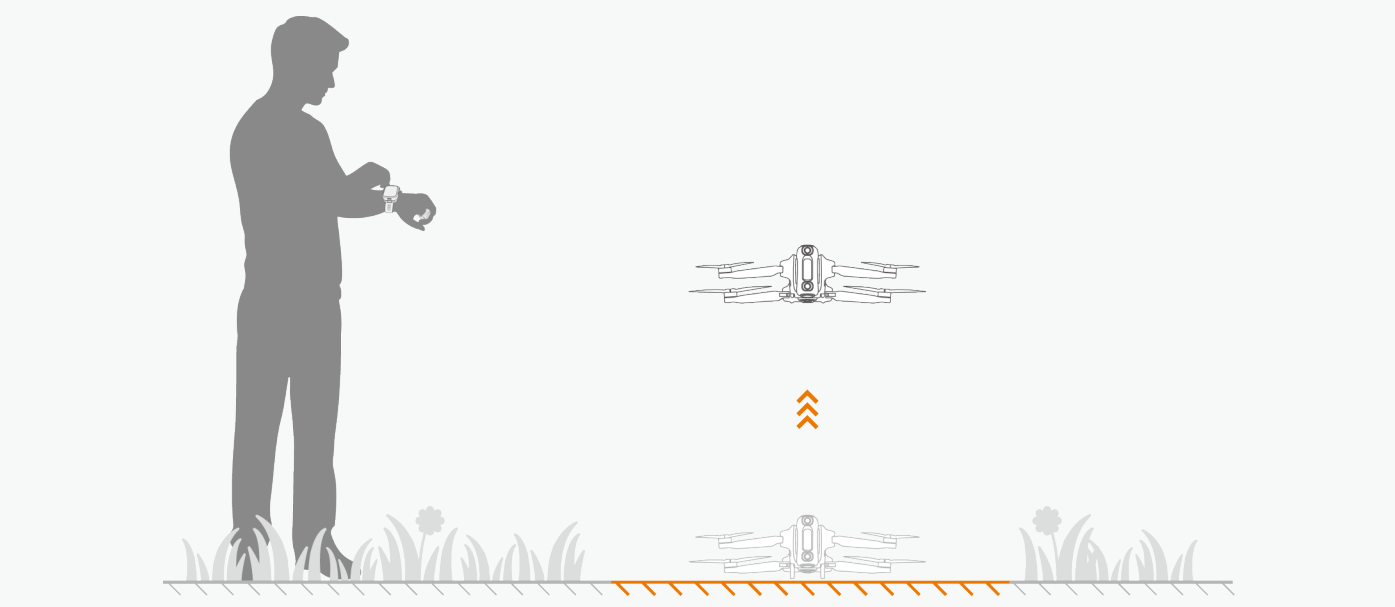
4. Place the drone with its nose facing toward you and ensure that visual tracking is enabled. Note that the takeoff button will be greyed out if you are not standing in front of the drone.



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Caution:
Should environmental conditions (such as nighttime or low light)render Obstacle Avoidance unavailable, users must first acknowledge the warning message on the Watch Remote prior to using the Deep Track feature.

Take off the drone on level ground and wait until it reaches a safe altitude.



5. Tap the Watch Remote screen and drag the green-and-white bounding box to select the target you want to follow. Tap the white bounding box to confirm the target; when the bounding box turns green, the target is successfully locked.



While framing the subject, the drone may dynamically adjust its position within a certain range to obtain the best framing result. This is normal.

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Once framing succeeds, a green box appears around the subject. Briefly press the takeoff button again, and the drone begins flying along the preset path and starts recording. When the maneuver is complete, the drone flies back to the cinematic starting point and hovers, awaiting the next instruction.



For best results when framing the subject, keep the bounding box focused on the main subject and reduce interference from the surrounding background.

- After framing the subject, you can select different cinematic parameters on the remote control. Choose the parameters that suit the actual situation.
- Before starting Sky Genie, if automatic obstacle avoidance cannot work properly due to external environmental constraints (e.g., night or insufficient lighting), the Sky Genie feature cannot be used.
- If, while Sky Genie is running, automatic obstacle avoidance cannot work properly due to external environmental constraints (e.g., night or insufficient lighting), the drone will exit the Sky Genie task currently being executed.

Connection Loss Behaviors

To further enhance flight safety during the autonomous flight, the drone's flight control system applies different safety measures when it detects a loss of connection between the drone and the remote control device. Before each flight, you may select one of the options below:

1. Swipe down from the top edge and tap on the setting icon.
2. Tap the "Signal-Loss Behavior" option. You may then select one of the following options:
   a. "Perform Signal-Loss Action" - When selected, the drone will execute the predefined action set in the "Lost Connection Behavior" option. The drone will either return to the last recorded Home Point or hover in place and wait for the signal to resume.
   b. "Continue Route" - In this case, the drone will continue traveling along the current flight route until the mission is completed.
3. Return to the main menu and resume the flight.

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Product Specifications

A1 Drone

Drone	
Model	DE001B
Max Takeoff Weight	351g
Dimensions	Folded: 167.3 mm × 382.8 mm × 87.5 mm (L × W × H) Unfolded: 323 mm × 396 mm × 75 mm (L × W × H)
Dimensions (without lens guard)	Folded: 167.3 mm × 382.8 mm × 75.4 mm (L × W × H)
Max Ascent Speed**	3 m/s (manual mode) 6 m/s (follow mode)**
Max Horizontal Speed**	11 m/s (full battery level) 10 m/s (follow mode) 3 m/s (manual mode)
Max Takeoff Altitude	2,000 m (6561 ft)
Max Flight Time	Approx. 23 minutes
Max Wind Resistance	5.4 m/s (Beaufort scale 3)
Operating Temperature Range	-10°C - 35°C
GNSS	GPS + BeiDou + Galileo
Hover Accuracy (GNSS)	Horizontal: ±0.5 m, Vertical: ±0.5 m
Hover Accuracy (Vision)	Horizontal: ±0.1 m, Vertical: ±0.1 m
Internal Storage	20 GB
Supported Memory Card	MicroSD

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Recommended Memory Cards	SanDisk Extreme PRO 64GB V30 U3 A2 microSDXC SanDisk Extreme PRO 128GB V30 U3 A2 microSDXC SanDisk Extreme PRO 256GB V30 U3 A2 microSDXC SanDisk Extreme PRO 512GB V30 U3 A2 microSDXC SanDisk Extreme PRO 1TB V30 U3 A2 microSDXC Lexar Silver Plus 64GB A2 V30 microSDXC Lexar Silver Plus 128GB A2 V30 microSDXC Lexar Silver Plus 256GB A2 V30 microSDXC Lexar Silver Plus 512GB A2 V30 microSDXC Lexar Silver Plus 1TB A2 V30 microSDXC Kingston CANVAS Go! Plus 64GB A2 V30 microSDXC Kingston CANVAS Go! Plus 128GB A2 V30 microSDXC Kingston CANVAS Go! Plus 256GB A2 V30 microSDXC Kingston CANVAS Go! Plus 512GB A2 V30 microSDXC Kingston CANVAS Go! Plus 1TB A2 V30 microSDXC
Sound Power Level	Hover: 81.0 dB(A) *Tested outdoors on concrete ground.
Drone Classification	EU C1
360 Camera	
Image Sensor	1/1.28 inch
Aperture	F2.2
ISO Range	100-6400
Shutter	Video: 1/8000 Photo: 1/8000 - 1/2
White Balance	2000K - 10000K
Max Photo Resolution	Approx. 55 MP (10486 × 5248) Approx. 14 MP (5248 × 2624)
Photo Modes	Standard, HDR, Burst, Bracket, Timelapse
Video Resolution	8K: 7680 × 3840@30/25/24fps 5.2K: 5248 × 2624@60/50/30/25/24fps 4K: 3840 × 1920@100fps 4K Slow Motion: 3840 × 1920@30/25/24fps
Video Format	INSV; exportable via the App or Studio desktop software.

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Photo Format	INSP; exportable via the App or Studio desktop software. DNG
Max Video Bitrate	170Mbps
Video Codec	H.264, H.265
Supported File System	exFat
Sensing System	
Forward	Measurement Range: 0.5 m – 18 m Effective Obstacle Avoidance Speed: flight speed ≤ 12 m/s FOV: Horizontal 69°, Vertical 104°
Downward	Measurement Range: 0.3 m – 7.5 m Effective Obstacle Avoidance Speed: flight speed ≤ 6 m/s FOV: Horizontal 107°, Vertical 90°
Operating Environment	Forward Sensing Conditions: Rich surface texture and sufficient lighting (luminance > 15 lux, equivalent to indoor fluorescent lighting) Downward Sensing Conditions: Rich ground texture and sufficient lighting (luminance > 15 lux, equivalent to indoor fluorescent lighting); diffuse-reflective surface with reflectance > 20% (e.g., concrete pavement, mature trees).
Video Transmission System	
Transmission Solution	Bluetooth Video Transmission
Live Transmission Quality	360P@30fps
Operating Frequency Band	2400-2483.5 MHz
Transmit Power	2.4 GHz: < 10 dBM
Max Signal Range (interference-free, unobstructed)	20 to 200 m *Measured at 25°C ambient, outdoors, interference-free and unobstructed. The values above represent the maximum one-way communication distance (no return flight) under each standard. Actual max range may vary depending on external environment, usage, and firmware. Actual experience prevails.
Max Transmission Bitrate	500Kbps

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Latency	Approx. 300 ms *Measured in an open, interference-free environment. Actual latency may vary depending on environmental conditions.
Antenna	1 Antenna, 1T1R
High Capacity Flight Battery	
Model	BDE-max-4345-7.16
Capacity	4345 mAh
Weight	Approx. 108.6 g
Nominal Voltage	7.16V
Charging Limit Voltage	8.6V
Battery Type	Li-ion 2S
Energy	31.11Wh
Charging Temperature	5 - 45°C (charging stops above 55°C)
Charging Time	Single battery to full: approx. 60 min*** Three batteries to full: approx. 3 hours***
65W GaN Charger**	
Model	ADT-65BDC-P
Input Voltage	90 - 264V (47-63Hz)
Output Power	5V~20V@65W/5A MAX
Operating Temperature	-20 ~ 40° C

*Tested at sea level in a wind-free environment.

**Measured at 25°C ambient temperature, altitude below 50 m, in a wind-free laboratory environment. Camera set to 5.2K/30fps with recording off. Tested with the drone flying forward at 7 m/s until low-battery landing is enforced. Actual flight time may vary depending on external environment, operating conditions, and device firmware version. Actual experience prevails.

***Charged using the Antigravity 65W GaN charger via the A1 charging hub.

****This accessory is not included in the Follow Me Bundle. Users may purchase it separately if needed.

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Watch Remote

Watch Remote	
Model	CINSCAVX
Weight	44.7 g
Dimensions	42 mm x 49 mm x 16 mm (L x W x H)
Screen Brightness	550 nit
Effective Screen Resolution	356*400
Screen Size	1.72"
Operating Temperature	-20°C - 40°C
Internal Storage	Approx. 8 GB
Bluetooth	
Protocol	5.4
Operating Frequency	2402 - 2480 MHz* *Depending on local regulations in each country/region, the supported operating frequency band and frequency range may vary. Refer to local laws and regulations.
Output Power	≤20 dBm
Operating Frequency Band	2.400 GHz - 2.483 GHz
Transmit Power	< 10 dBm

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Ring Remote

General	
Model	CINSCAVJ
Weight	Approx. 8.2 g
Compatible Finger Circumference	46-70 mm
Battery	Capacity: 10mAh Energy: 0.037Wh Charging Voltage: 5V/1A Charging Temperature: 0°C - 45°C
Operating Temperature	-10°C - 40°C
Bluetooth	
Protocol	BLE 5.3
Operating Frequency	2400-2483.5MHz
Transmit Power(EIRP):	< 0dBm

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