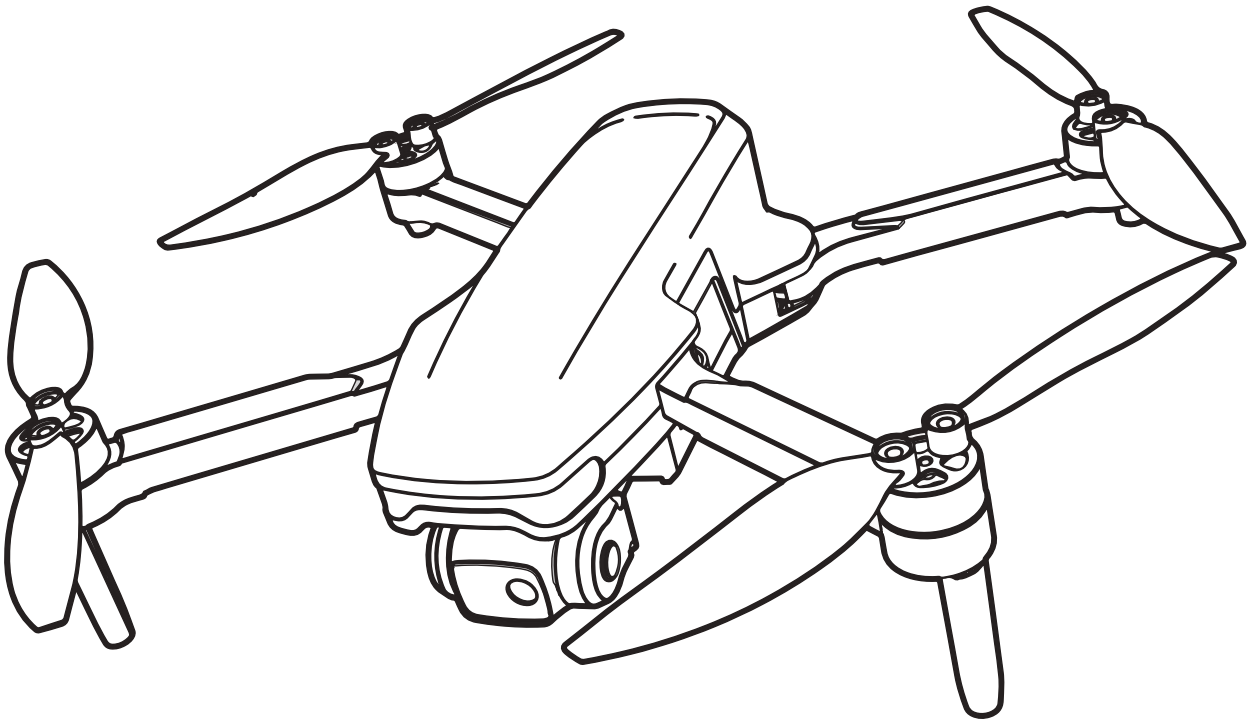
Redrie

14+ age

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

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

USER MANUAL



support@redrie.com (888) 742-6588

Thank you for choosing our products. Please read this manual carefully before operating.
Please keep this manual for future reference, Please refer to the actual object,
if the picture does not match the actual object.

Preface:

Thank you for purchasing this product. In order to enhance your ease and convenience in using this aircraft, please carefully read this manual before operating it. Additionally, please ensure that you keep this manual for future reference regarding adjustments and maintenance.

Important statement:

1. This product is not a toy, but a precision equipment that integrates mechanical, electronic, aerodynamic, high-frequency emission, and other professional knowledge. It must be assembled and calibrated correctly to prevent accidents. The product owner must operate the controls safely, as improper operation can result in severe personal injury or property damage.
2. This product is intended for individuals with experience in operating model aircraft and who are at least 14 years old.
3. For any inquiries or concerns regarding usage, operation, maintenance, or other issues, please advise us via email.support@redrie.com

Safety precautions:

The remote-controlled model aircraft must be flown at a safe distance from crowds. Improper assembly, damage to the airframe, inadequate electronic control, and lack of familiarity with the operation may result in unforeseen accidents, such as aircraft damage or personal injury. The operator must prioritize flight safety and be aware of the responsibilities.

1. Keep away from obstacles and people.

The remote-controlled aircraft operates at variable speeds and can pose potential risks. It is crucial to keep a safe distance from crowds, high-rise buildings, high-voltage wires, and other obstacles. Additionally, flying in severe weather conditions like strong winds, rain, or lightning should be avoided to ensure the safety of pilots, bystanders, and property.

2. Avoid Damp Conditions

In the early stages of learning remote-controlled aircraft operation skills, it is recommended to seek the guidance of experienced individuals and avoid flying alone whenever possible. This helps in acquiring the necessary skills and knowledge for safe operation.It is essential to prevent moisture or water from entering the aircraft body. This precaution helps prevent accidents caused by failures in mechanical and electronic components.

3. Use Original Parts

To ensure flight safety and proper use of this product, always use original parts for any modifications or maintenance. Please operate and use the product within the defined scope of its functions and refrain from engaging in any illegal activities that violate safety laws.

4. Seek Guidance and Avoid Solo Operation
5. Prioritize Safe Operation

Operate the remote-controlled aircraft according to your personal condition and flying skills. Fatigue, low energy levels, or improper operation can significantly increase the risk of accidents.

6. Maintain Distance from High-Speed Rotating Parts

When the aircraft's rotor is rotating at high speed, ensure that the pilot, bystanders, and objects are kept at a safe distance from the rotating parts to prevent any potential danger or damage.

7. Keep Away from Heat

The remote-controlled aircraft is constructed with various materials such as metal, fiber, plastic,

and electronic components. Therefore, it is advisable to keep the aircraft away from heat sources, avoid direct sun exposure, and prevent deformation and damage caused by high temperatures.

Warning

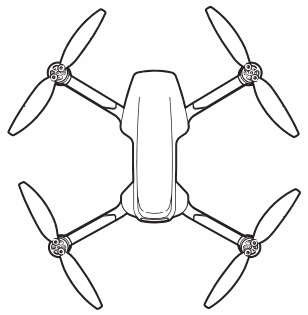
1. The packaging and instructions contain important information that should be retained.
2. It is your responsibility to ensure that this aircraft does not cause harm to other people or their property.
3. Strictly follow the operating instructions for debugging and installation when operating the aircraft. Maintain a distance of 1-2 meters from the user or other people during flight to prevent any contact that could cause injury to their heads, faces, or bodies during flight or landing.
4. Our company and the seller are not liable for any loss or damage resulting from improper use or operation,as well as any injuries to individuals.
5. Children should be supervised by adults when operating the aircraft. This product is not suitable for children under 14 years old.
6. Please install and use the aircraft correctly according to the instructions or package instructions. Some parts may require assembly by adults.
7. The product contains small parts. Keep them out of reach of children to prevent accidental ingestion or suffocation.
8. Playing on roads or in areas with water is strictly prohibited to avoid accidents.
9. Promptly dispose of packaging materials to prevent harm to children.
10. Do not disassemble or modify the aircraft. Disassembly or modification may cause the aircraft to malfunction.
11. Allow the battery to cool off for 10-15 minutes before recharging.
12. Use only the original USB charging cable.
13. The charging cable is not a toy.
14. When charging the battery, adult supervision is required. Keep the battery away from flammable materials during charging. The guardian should not leave the model airplane unattended while charging.
15. Avoid short-circuiting or squeezing the battery to prevent explosions.
16. Do not mix different types of lithium batteries.
17. If the drone is not going to be used for an extended period of time, remove batteries to prevent potential damage from battery leakage.
18. Avoid short-circuiting, disassembling, or throwing the battery into fire. Do not place the battery in high-temperature or heat sources such as fire or near electric heating devices.
19. Keep the aircraft away from other electrical equipment and magnetic objects as they may interfere with each other.
20. Maintain a safe distance from the propeller, which rotates at high speed, to avoid the risk of entanglement or cuts.
21. The motor is a heating component. Avoid touching it to prevent burns.
22. The light-emitting diode has laser radiation but does not emit a direct beam.
23. Do not use the model near the ear as misuse may cause hearing damage.
24. Comply with the requirements for maintaining the magnetic environment of aeronautical radio stations.Stop the use of the model's remote-controller as required during periods when the relevant national authorities issue radio control orders.

Contents

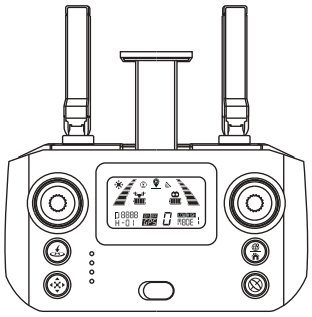
1.Product Introduction

1.1 Product List

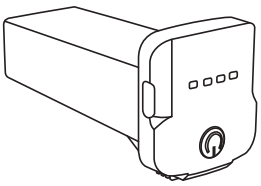
User Manual x1



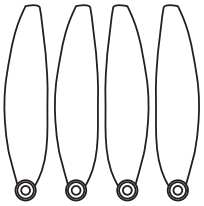
Aircraft x1



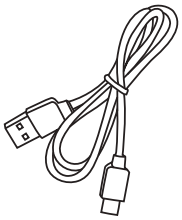
Remote control x1



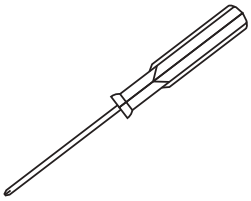
Lithium battery x2



Propeller A x2
Propeller B x2

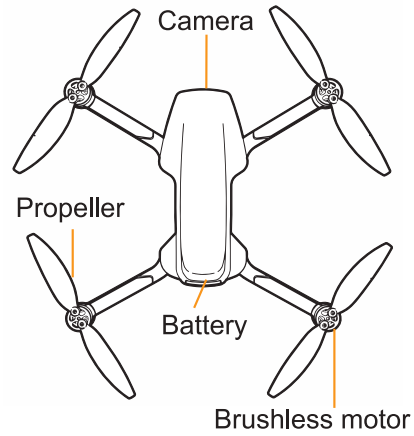


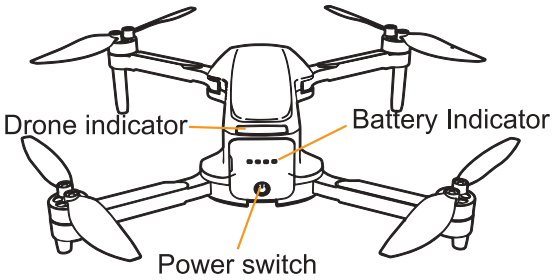
USB charging cable x 2



Cross screwdriver x1

1.2 Drone

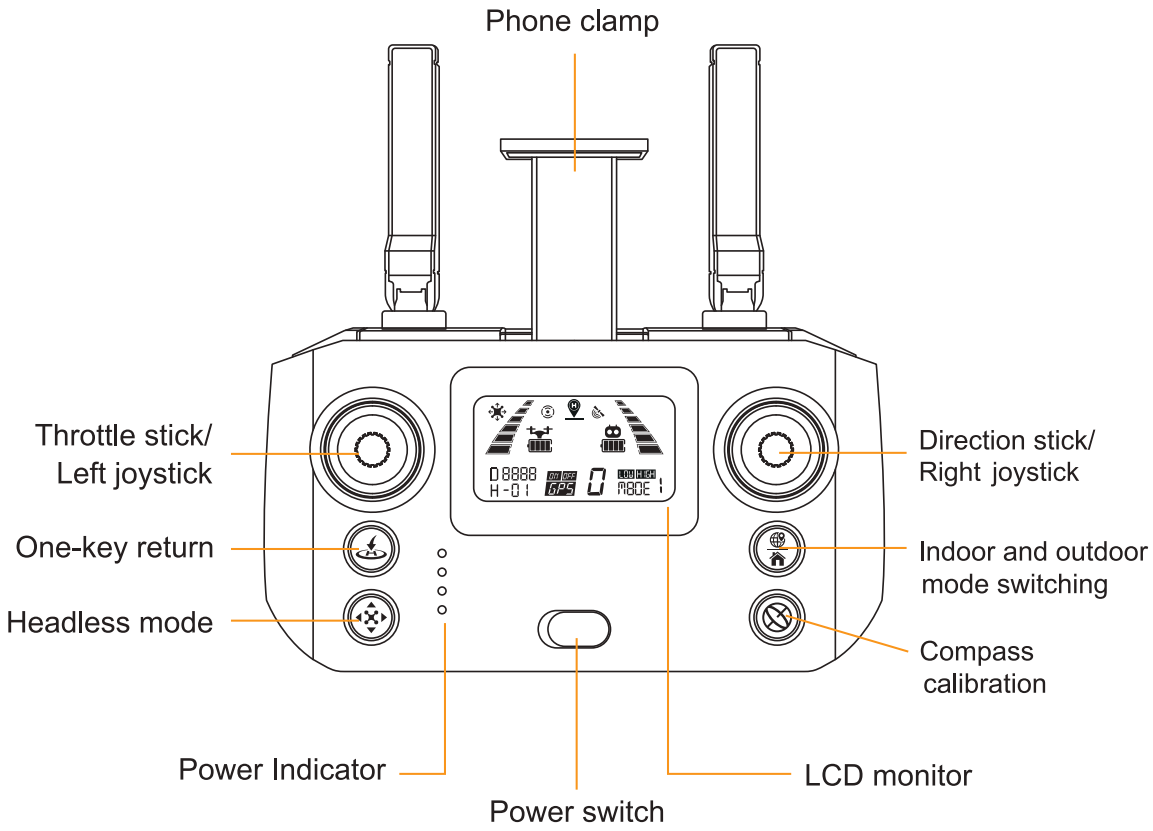


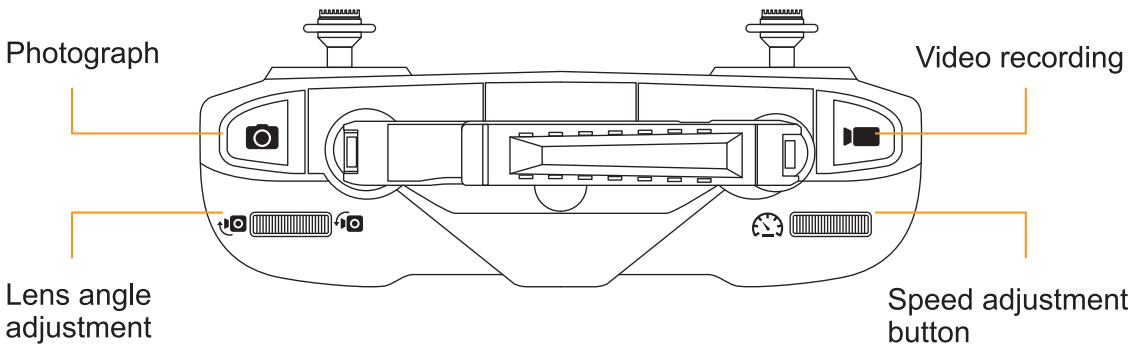


Check battery level: press once.
Power on/off: press briefly , then press and hold.

1.Product Introduction

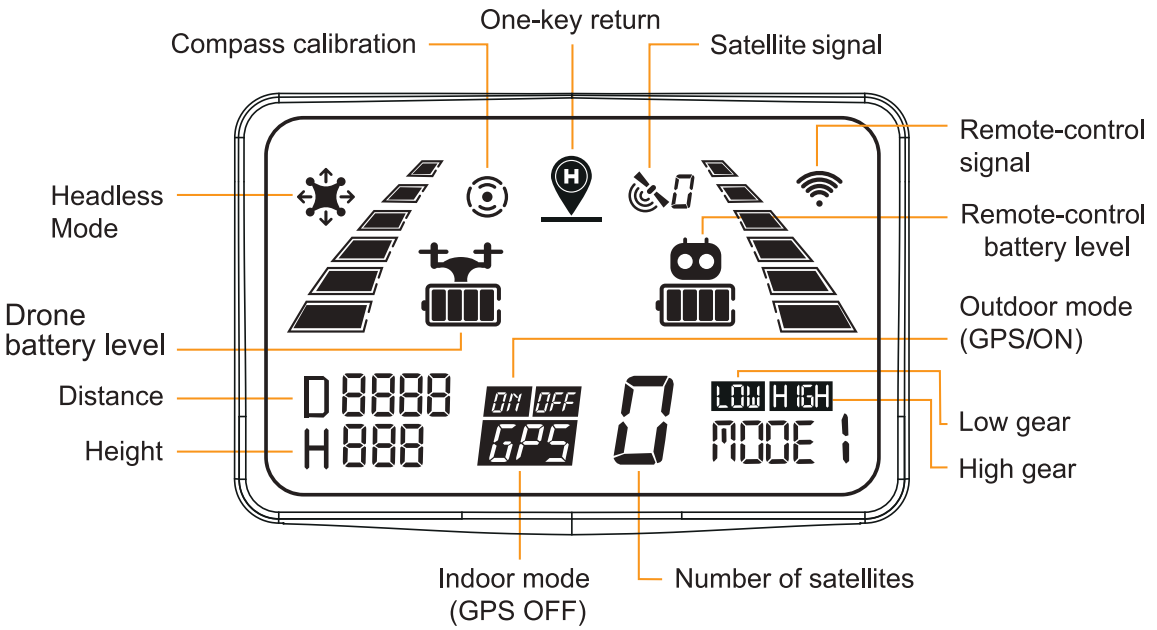
1.3 Remote-Control Introduction





1.Product Introduction

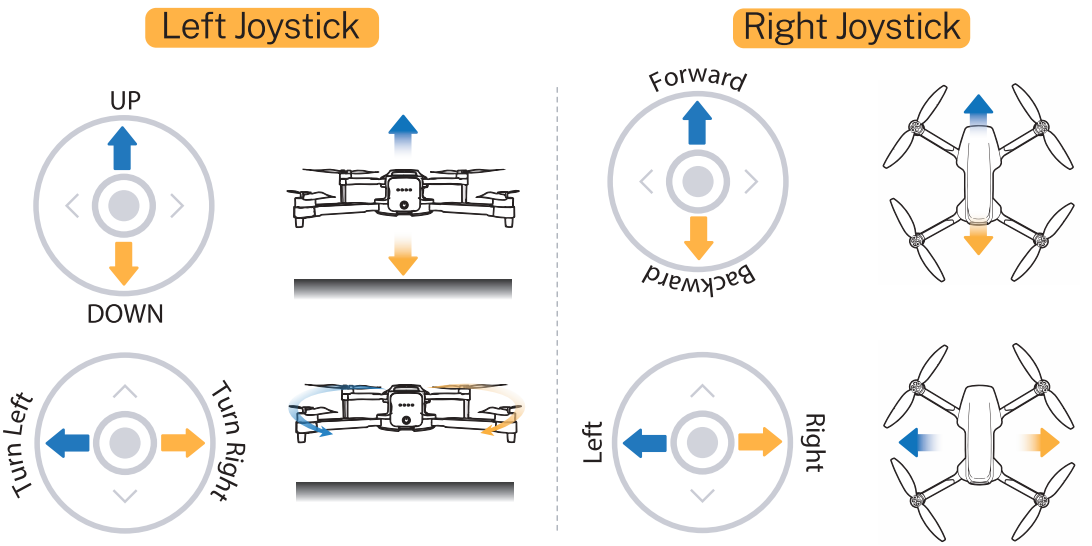
1.3 Remote-Control Introduction



⚠ Caution: Before taking off, please ensure that the drone is in outdoor mode to avoid the risk of losing the aircraft.

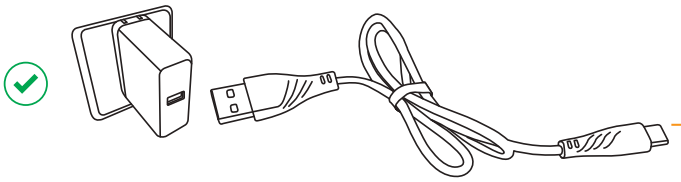
⚠ When this icon flashes on the display, it indicates that the compass calibration of the aircraft is required.

1.4 Basic Flight Operations

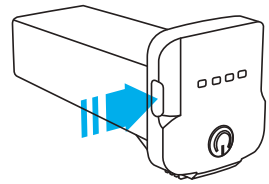


1.Product Introduction

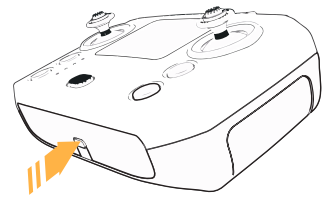
1.5 Charging



USB Adapter
(not included)



Charging Time: About 3-4 Hours
(Depending On Charging Adapter)



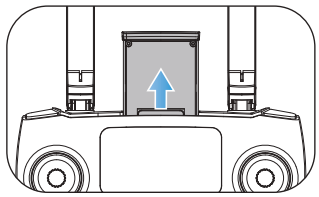
Charging Time: About 2-3 Hours

- Please use the Type-C charging cable to charge the drone battery and the remote control.
- While charging, the battery power indicator will flash, indicating the current charge level. When all the indicators are on, the charging process is complete.

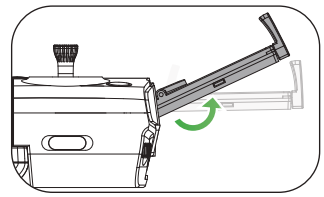
⚠ After use, allow the battery to cool before charging to prolong its service life.
⚠ Always install or remove the battery with the battery power turned off.

1.6 Phone Holder

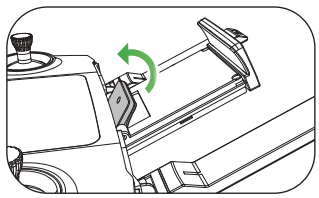
1.Pull out the mobile phone holder completely.



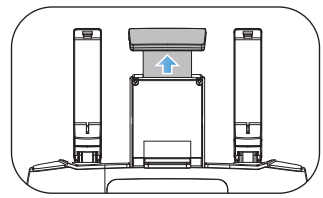
2.Tilt / Lift the holder 30 degrees towards you and then you will hear a click sound.



3.Fix the support board in place.



4.Adjust the mobile phone holder upward or downward according to the size of your mobile phone.



2.Flight Preparation

2.1 Tutorials & Install App

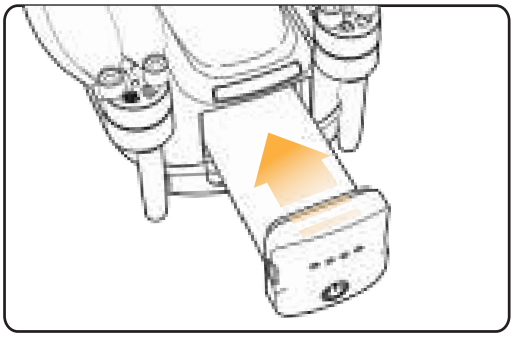
Video Tutorials

Scan the QR code provided to access the tutorial videos, which will guide you in using the product correctly and safely.

Download the Redrie Pro App

Make sure to use the Redrie Pro app during the flight.
Scan the QR code below to download the latest version of the app.

2.2 Drone Battery



- **Installation**

Push battery into thecompartment.

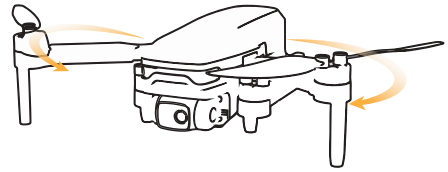
⚠ Make sure you hear a click sound from the battery buckle, indicating that it is securely locked.

- **Remove**

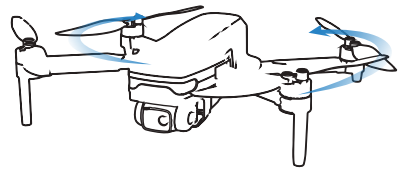
Press the buckles located beneath the battery and pull it out of the compartment.

2.3 Arms

- First, unfold the front arms.



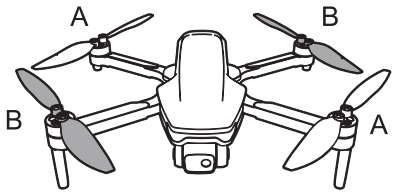
- Then unfold the rear arms.



Fold all arms of the drone into the package.

2.Flight Preparation

2.4 Propeller

Propellers	Mark A	Mark B
 Installation location	 Installed to the motor with A mark on the arm	 Installed to the motor with B mark on the arm

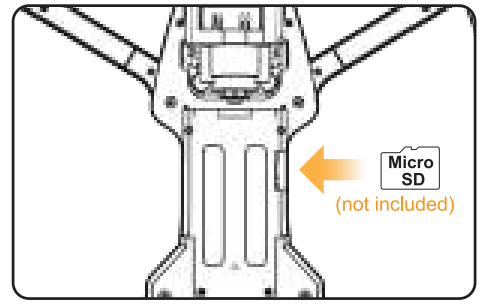
Propeller Installtion

As shown in the figure, the right front arm and left rear arm should be equipped with propellers marked with A, while the left front arm and right rear arm should be equipped with propellers marked with B.

⚠ Ensure proper installation, please use a screwdriver and make sure to tighten the screws securely.

2.5 Micro SD Card

When using the "Redrie Pro" app, the original pictures and videos captured by the camera will be compressed and saved on your phone.
For clearer pictures and videos, you can insert a memory card for high-quality storage.



2.6 Flight Environment Requirements

Good Flight Environment

Fly in a spacious and open area.

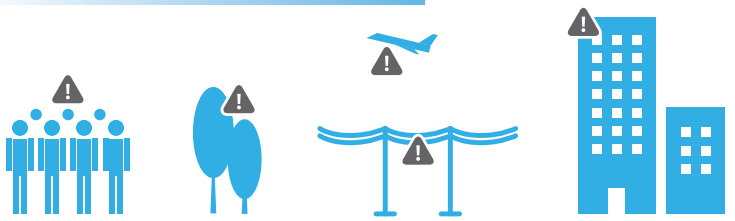
Ensure a stable and strong GPS signal.

Always maintain a visual line of sight with the aircraft.

2.Flight Preparation

2.6 Flight environment requirements

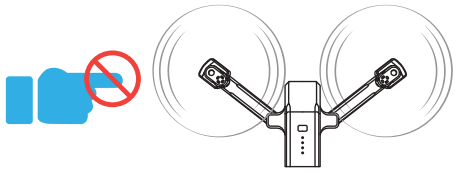
Need attention



Avoid flying over or in close proximity to people, trees, high-voltage power lines, buildings, airports, or bodies of water. Additionally, stay clear of high-intensity power lines or base stations as they can interfere with the aircraft's compass.

Prohibit

Refrain from using this product in unfavorable weather conditions such as rain , snow, fog, or wind speeds exceeding 5 m/s or 22 mph.



Adhere to no-fly zones and restrictions as specified by applicable regulations

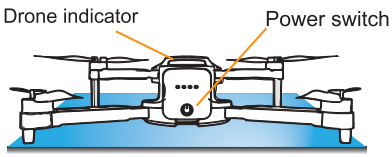
Keep a safe distance from rotating propellers and motors to prevent accidents.

Understanding safety guidelines is very important for safe flight. Please read the safety instructions carefully before flying.

3.Flight

3.1 Connection

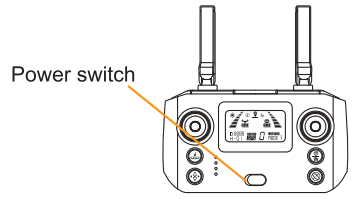
1. Turn on the drone



Press once, release, then press and hold.

The drone indicator light will light up and beep twice, indicating that the drone is now powered on.

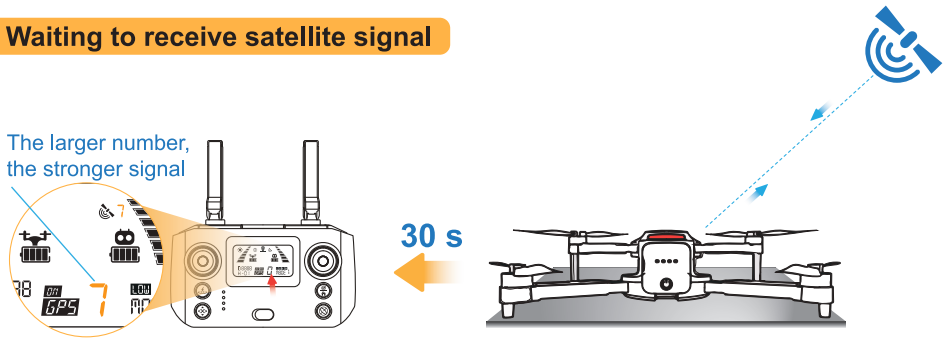
2. Turn on the remote



Slide the switch to the right.

The remote controller beeps once and will automatically connects to the drone.

3. Waiting to receive satellite signal



It takes about **30 seconds** for the drone to receive satellite signals, enable the GPS function and take off. As shown in the figure, when the number of satellites on the remote control screen is greater than 0, the drone GPS is ready.

⚠ It is best to receive satellite signals outdoors since the indoor satellite signal is weak.

⚠ If the number of satellites is 0, you can only unlock the motor but not take off.

Indoors, you can turn off GPS and take off without waiting for satellite reception.

4. Connect to App

Connect your phone to the drone WiFi network: **Redrie_HK33-XXXXXXX** and access the Redrie Pro App.

3.Flight

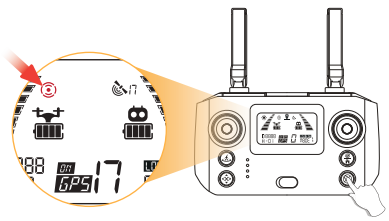
3.2 Calibration

1. Compass Calibration

Let the drone locate the take-off point and be able to Auto-return.

• Step 1. Start Calibration

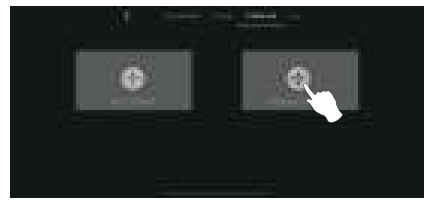
Method 1: Start via remote controller



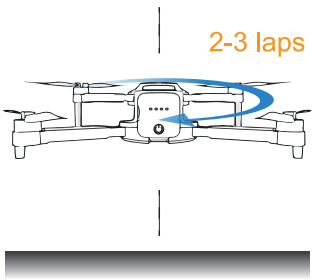
Press the compass calibration button. As a result, the icons on the screen, the front and rear lights of the drone will start flashing.

OR

Method 2: Start via App

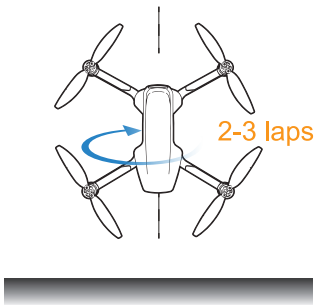


Open the Redrie Pro app. Select GO TO FLY >> Settings >> Calibration >> Compass Calibrate. Follow the on-screen prompts to complete the calibration process.



• Step 2

Rotate the drone horizontally clockwise until the remote controller beeps once, the drone's front light turns off, and the rear light flashes.



• Step 3

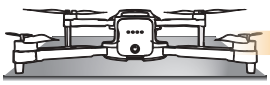
Point the drone head downward and rotate it clockwise until the remote controller beeps again and the drone indicator turns solid blue. The compass calibration is complete.

3.Flight

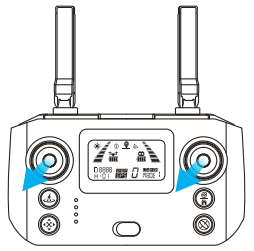
3.2 Calibration

2. Level calibration

Calibrate the drone's level to ensure stable flying.



Place the drone on a level surface with its head pointing forward.



Move both joysticks to the **7 o'clock** position simultaneously to initiate gyro calibration.

OR

Open the Redrie Pro app. Select GO TO FLY >> Settings >> Calibration >> Acc Calibrate.

Drone light will flash briefly and then stay on, indicating completion.

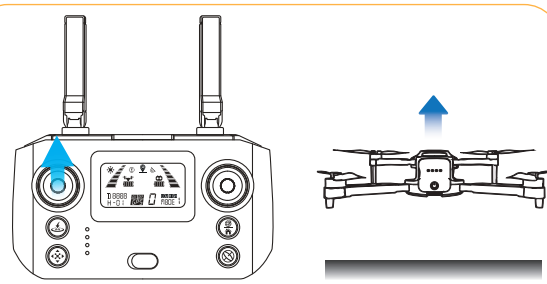
3.3 Tale Off/ Landing

1. Take off

Step 1: Unlock drone

Push both joysticks toward the inner lower corners simultaneously to unlock the drone motor.

Do this again to stop the motor.



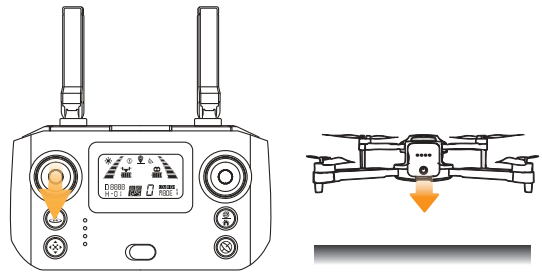
Step 2: Take off

Push the left joystick up to take off.

2. Landing

Pull down the throttle (left joystick) lever gradually to let the drone descend.

After the drone lands, pull the throttle lever to the lowest position and hold it there until the motor stops completely.



4.Flight Functions

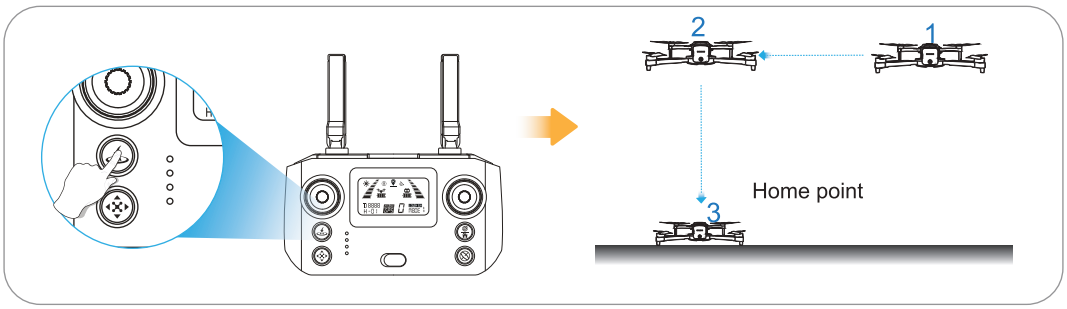
4.1 GPS Auot-Return

The GPS Return (RTH) function enables the drone to return to its original departure point. This feature can only be activated when the drone is in GPS mode.

There are three types of return (RTH) options: **GPS return, low power return, and signal return.**

1. GPS Return

Long press the button for 3 seconds to activate the GPS Return.
During Smart RTH, the remote-control will keep on beeping.
The Drone will autonomously return to the vertical sky above its take-off point and then gradually descend to the designated spot. To stop the return flight, press the button again, and use the throttle lever to safely lower the drone to the ground.



2. Low Power Return

When the battery is low, the low battery return function will be triggered and the drone will fly back to a position about 30 meters away from the operator.
Despite the return, the operator can still control and operate the aircraft. To land the drone in a safe location, use the throttle lever to descend. If the battery is completely drained, the aircraft will automatically return to the pre-set take-off point.

⚠ (Caution: Do not push the directional stick forward during low power return as it will invalidate the return flight, potentially resulting in the loss of the drone.)

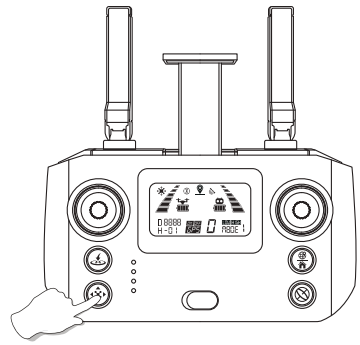
3. Return Without Signal

If the connection between the drone and the remote control is lost, the aircraft will automatically enter return to home mode.
It will autonomously return to a position approximately 30 meters away from the operator while attempting to reconnect with the remote control. Once the connection is established, the operator can resume controlling the drone.

⚠ **Caution**: The return mode of this aircraft does not include obstacle avoidance functionality.

4.Flight Functions

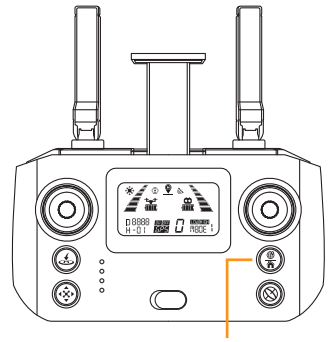
4.2 Headless Mode



During takeoff, it is crucial to ensure that the remote controller is facing the tail of the drone. Once the takeoff is successfully executed, press the "Headless Mode" button on the remote controller to activate the Headless Mode. This action is accompanied by a brief sound from the remote controller's buzzer, and the headless mode icon is displayed on the remote control screen. To exit the Headless Mode, simply press the "Headless Mode" button again.

Note: Whenever the direction of the remote controller changes, it is necessary to recalibrate the drone to maintain accurate control.

4.3 Indoor/Outdoor Mode



Indoor and outdoor mode switching

When flying outdoors, it is recommended to switch to the outdoor mode and activate the GPS.

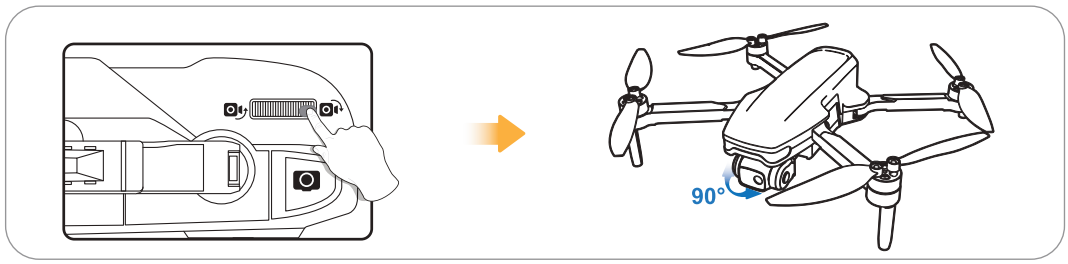
This Indoor and outdoor mode switching allows for more precise positioning and navigation, which is especially important for outdoor flights where visual line-of-sight may be limited.

With GPS enabled, the drone can maintain a stable hover, fly to specific locations, and automatically return home when needed.

However, it's important to note that if the GPS function fails, these features will be unavailable. Consequently, the drone will be unable to hover and may drift away with the wind. Another advantage of activating GPS is the ability to use advanced flight modes such as"Follow Me" or "Fly Around," which are especially valuable for aerial photography or videography purposes.

4.4 Camera Adjustment

Adjust the camera angle by scrolling the wheel.

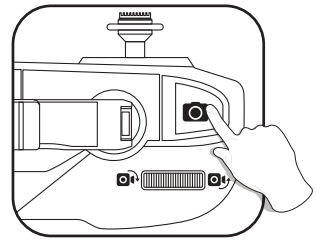


4.Flight Functions

4.5 Photo and Video

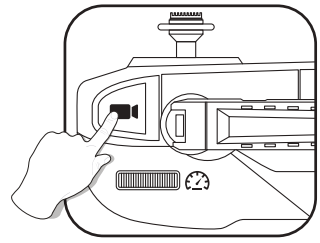
Photograph

To capture a picture, simply tap the button on the remote control or click the button on the app interface.



Video recording

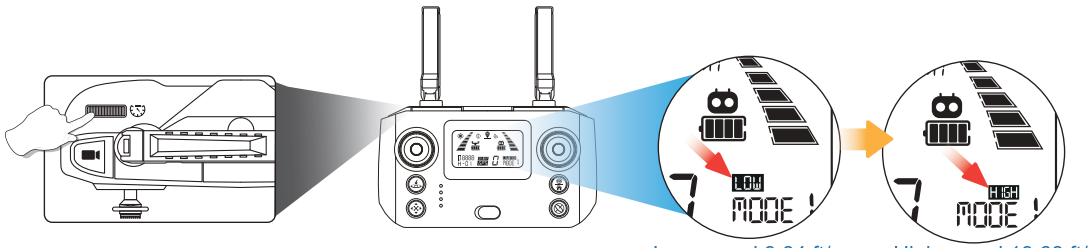
To start recording, tap the button on the remote control once or click the button on the app interface.



Storing Photos and Videos

The drone is equipped with a micro SD card slot for storage space expansion.
Memory capacity: a memory card with a memory capacity of 64G or less.
The phone and the memory card store photos and videos at the same time. For higher video quality, please download the video files onto the memory card.
*Check whether the capacity of the memory card is sufficient. If the capacity of the memory card is insufficient, videos and pictures cannot be stored.
If you cannot save pictures or videos, try formatting the memory card.

4.6 Speed Adjustment



Low speed 9.84 ft/s High speed 19.68 ft/s

- Push the wheel once to switch speeds.
  The Drone has 2 speed ranges: 9.84 ft/s,19.68 ft/s

- When the wind speed is high, maintaining high-speed flight helps improve wind resistance.
- When flying with fast gear, the pilot should reserve at least 3 meters of braking distance to ensure flight safety in windy conditions.
- During actual flight, the pilot should reserve enough airspace to ensure flight safety.

5. APP

5.1 Connect the APP

During app usage, you may encounter some app permission dialog boxes. Please allow the app to use these permissions; otherwise, certain functions of the app may not work properly. Follow the steps below to establish a connection:

1. Open the " Redrie Pro " app . The first time you use this app , you will encounter a login registration page. Please disconnect the phone from the drone and use either the data network or WiFi to log in. Afterward, exit the app interface.
2. Power on the drone.
3. On your phone, click the "Settings" menu to access the WiFi settings page and enable the WiFi switch.
4. Locate the specified WiFi network named " Redrie-HK33-XXXXXX " in the WiFi list. Click the connect button and wait for the connection to succeed. Then, exit the "Settings" interface. Note that the WiFi will display "No Internet Connection," which is normal and doesn't require any concern. Proceed to the next step as usual.
5. Open " Redrie Pro " and enter the interface shown in the figure. Click "GO TO FLY" to access the control interface, where you will be able to view the video transmitted by the drone camera.

5.2 Home Page

- GO TO FLY
  Use the app's page buttons to operate the aircraft and access its functions.
- PHOTOS
  Click this button to view photos taken by drone.
- MANUAL
  This button is for viewing the help manual, instructional videos, and quick start guide.

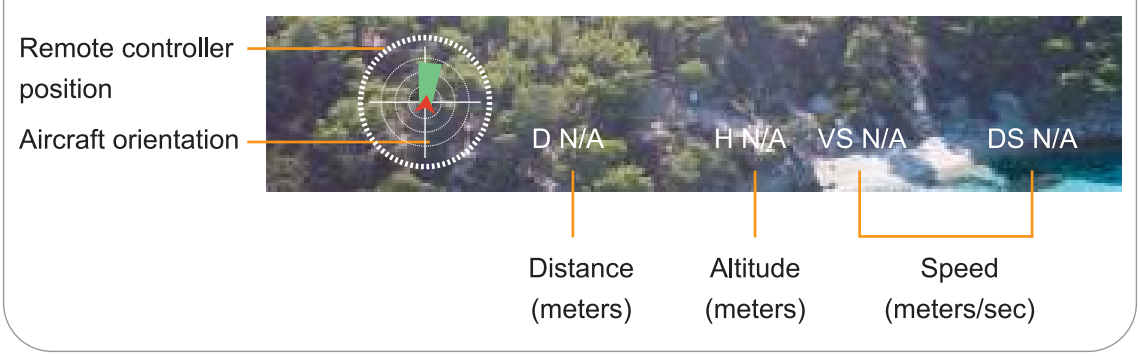
5. APP

5.3 Control Page

Click "GO TO FLY" to access the control interface.

Back to main menu	Aircraft battery
Auto take off	After-sales contact
One-key return	Settings
More functions	Photo/video switching
GPS signal	Shutter
	Media galler (one key to share)

- The display provides information regarding the aircraft's orientation and the position of the remote control.



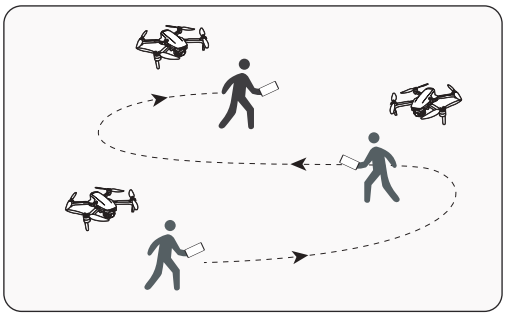
5. APP

5.4 APP Functions

Click > to choose the intelligent flight functions.

1. GPS Follow

Tap to activate the Follow Me function, which enables the aircraft to use the GPS in your smartphone to track your movements.



When the GPS Follow function is enabled, the drone will track your cellphone's coordinates by following the GPS signal on your cellphone.
To exit GPS Follow function, simply tap the GPS Follow icon on the app interface again.

- If the GPS signal of the phone is too weak, the follow me function may be difficult to activate.
- The drone is not equipped with an obstacle avoidance function. Please use this function in an open area and pay attention to the surrounding environment.

5. APP

5.4 APP Funtions

2. Route Planning

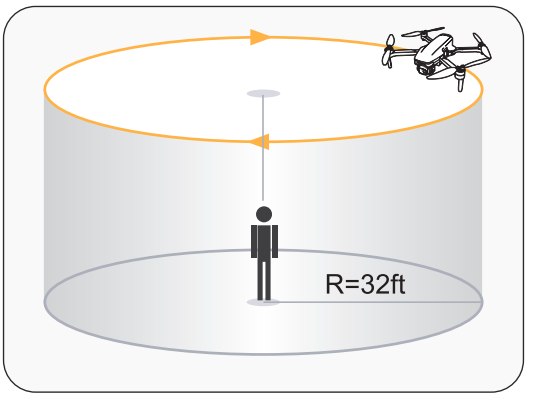
When using this feature, pinch to zoom in on the map before drawing the flight path.

1. Tap ( ) to add points at the map to create a flight path.
2. Tap "GO" to submit the route. The drone will then fly along the path created by connecting the points you tap in order.
3. You can exit this function by tapping the ( ) icon again, or pushing the right joystick in any direction.

⚠ Do not fly the drone toward people, animals, or other objects (such as branches and wires).
⚠ The actual flight path and the path you draw may not align exactly.

3. Fly Around

1. Tap the ( ) icon and the aircraft will fly in a clockwise circle with the current position as the center. (default radius: 32 ft)
2. Tap the icon again to exit this function.



5. APP

5.4 APP Functions

4. VR

Tap this icon to use the VR view function, which requires use with VR glasses.

5. Zoom

Click the button to activate the zoom function, enabling up to 2x magnification.

6. Fitlers

Tap to select a different filter mode for capturing photos or videos.

7. Music

Enhance your videos with music. Click to access the music page, choose a track, and proceed to video shooting.

8. Gesture Photo

Tap this icon, make a  gesture at about 2m in front of the drone camera

After successful recognition, the camera automatically takes pictures.

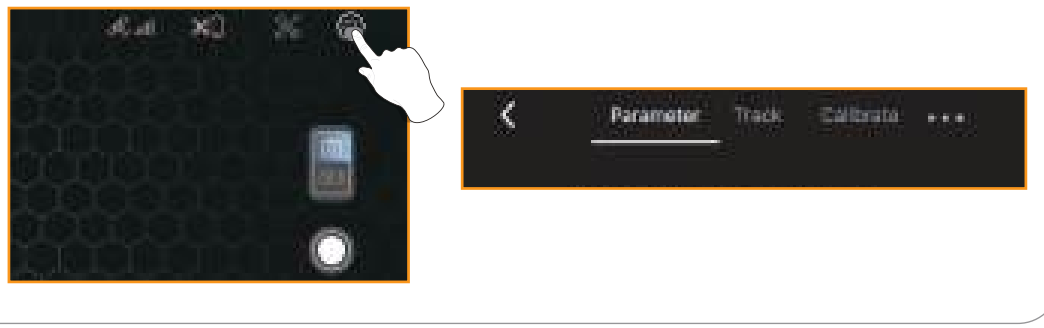
9. Gesture Video

Tap this icon, make a "palm"  gesture about 2m in front of the drone camera.

After successful recognition, the camera starts counting down and automatic recording begins after 3s.

5.5 Settings

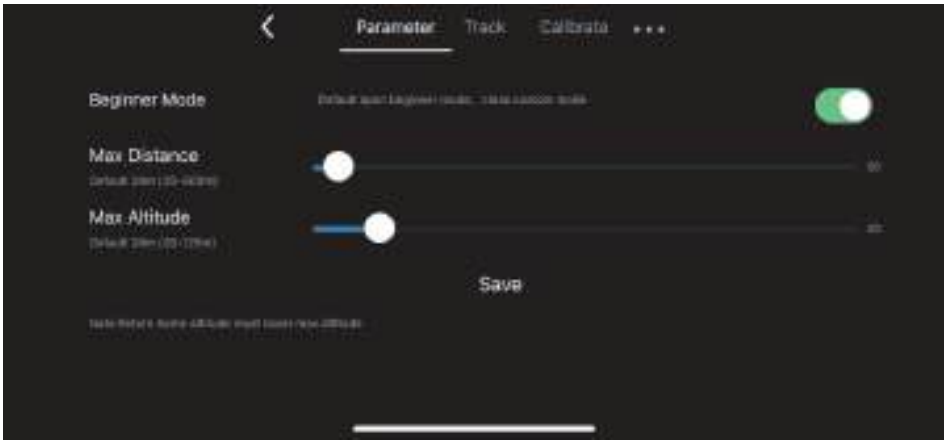
Click  access the settings page, which includes Parameters, Track, and Calibrate Adjust.



5. APP

5.5 Settings

1. Parameter



Out of Beginner Mode & Flight Setting

① While the drone is in GPS mode, its default mode is Beginner Mode.

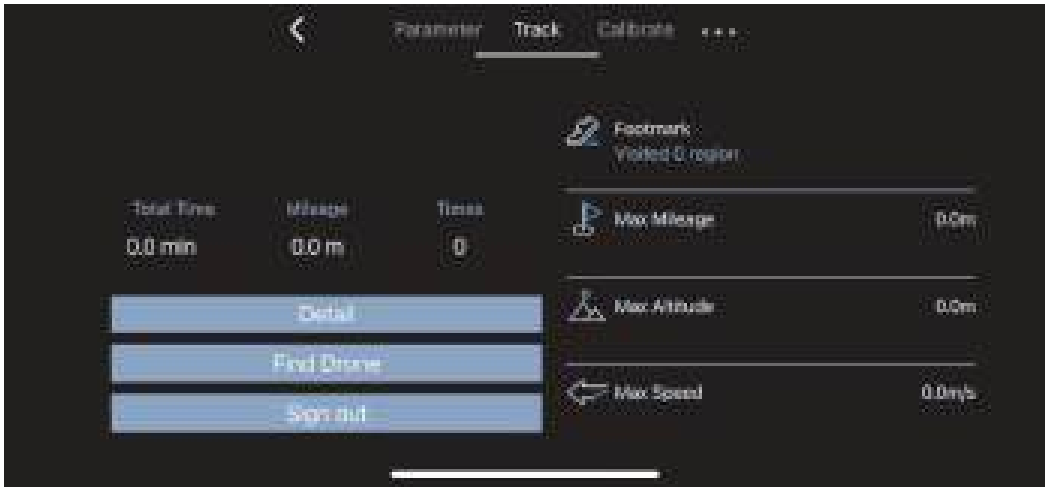
② In Beginner Mode, the flight range is limited as follows: maximum flight distance of 30 meters and maximum flight altitude of 30 meters.

③ Click to disable Beginner Mode and configure the appropriate flight settings in the app. The limited flight distance increases to 500 meters, and the limited flight altitude increases to 120 meters.

> ⚠ The drone must be connected with the app to save the settings

2. Track

When the drone is connected to the app and has a strong GPS signal, the app can record the drone's location and data.



5. APP

5.5 Settings

2. Track

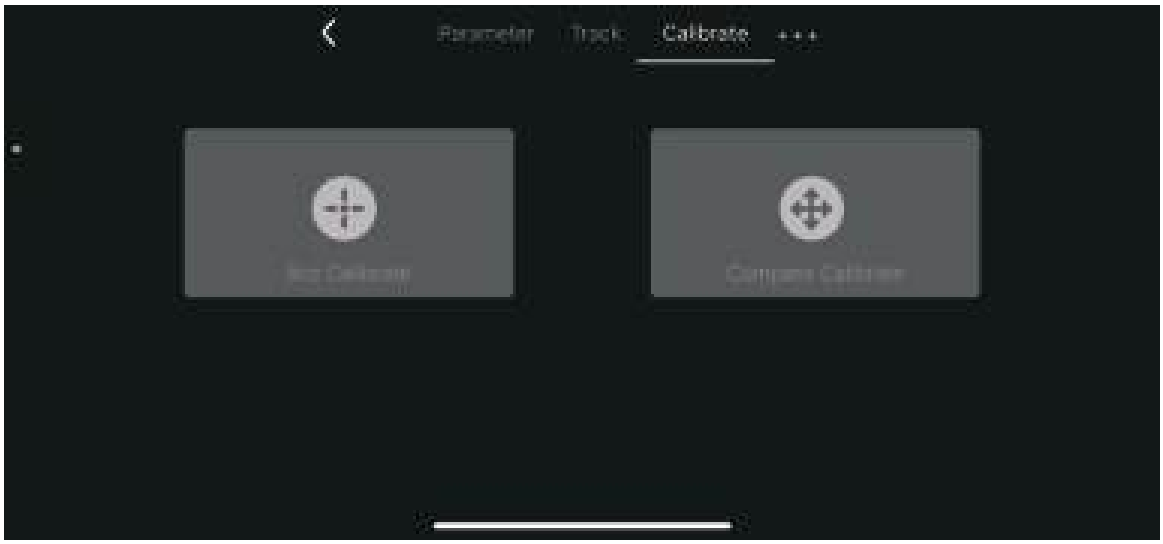
① Footmark: Total number of areas where the aircraft has flown.
② Max Mileage: The longest mileage for a single flight.
③ Max Altitude: The highest single flight altitude.
④ Max Speed: The fastest single flight speed.
⑤ Detail: The date, mileage, duration and height of each flight.
⑥ Find drone: Click to open the map and locate the drone. The last known position of the lost drone will be displayed on the map.

⑦ Sign out: Delete account and relevant data.

3. Calibrate

Click the icon to initiate calibration based on the prompts displayed on the screen.

① Acc calibration: Calibrate the drone's level to ensure stable flying.
② Compass Calibration: Let the drone eliminate external magnetic field interference. Make flight heading measurement more accurate and identify direction.



5. APP

5.5 Settings

4. Display Setting

APP Display Setting

① Click ••• to switch the units between Ft(m/s), Meter(m/s), Metric(km/h).

② Click to toggle the display of track, prompts, and voice prompts on or off.

6. Appendix

6.1 Specifications

Drone	Model	HK33
	Weight (Including Battery)	248g
	Flight Time	About 23 Minutes
	Operating Temperature Range	32°to 104°F (0°to 40°C)
	Satellite Systems	GPS
	Dimensions (Lx Wx H)	Unfolded: 8.66 x 7.67 x 2.36 in
		Folded: 6.29 x 3.14 x 2.36 in
Camera	Controllable Range of Camera (Up and down)	About -90°TO+0°
	Resolution of Photo	Phone 4096 x 3072 P
		Micro SD Card 4096 x 3072 P
	Resolution of Video	Phone 2048x1088 P
		Micro SD Card 2048 x1088 P
	Resolution of Video	Photo Format
	Video Format	AVI
	Supported Micro SD Cards	64GB or below (self-purchased)
Remote Control	Operating Frequency	2.4GHz
	Max Operating Distance	Up to 500 meters (Outdoor and Unobstructed)
	Battery	Built-in 500mAh lithium battery
	Charging Time	About 2-3 Hours

6. Appendix

Remote Control	Operating Time	About 2 Hours
	Operating Temperature	32°to104°F (0°to 40°C)
Drone Battery	Capacity	1800mAh
	Voltage	7.7V
	Battery Type	Li-polymer
	Max Charging Time	About 5-7 Hours(Depending on Charging Power)
	Charging Temperature Range	32°to104°F (0°to 40°C)
	Charging Cable Interface Type	Type-C

6.2 Common Problems and Solutions

Question	Reason	Solutions
The motors cannot be started	Weak GPS signal	Turn on the aircraft in an open area with strong GPS signal
	The aircraft has low battery.	Please charge the battery in time
	The drone's front and rear lights flash	The compass is not calibrated. Please refer to the "Quick Start guide" Step 2 of the user manual
Unstable flight	Flying too low, affected by aircraft airflow	Please fly the aircraft above 9.84ft(3 meters)
	The gyroscope is not calibrated	Place the aircraft on a horizontal surface and conduct gyroscope/ horizontal calibration. Please refer to the "Quick Start guide" Step 4 of the user manual.
	The propellers become deformed and incomplete	Replace the propellers with new ones
	GPS signal is unstable. Flying near buildings and in obstructed places	Please fly the aircraft in an open area free of obstacles within the circle of radius 32.81 ft (10 meters)

6. Appendix

The flying direction of the aircraft is opposite to or inconsistent with the remote control joystick when flying	The aircraft isn't placed correctly when it takes off	The side with the camera should be forward and the tail of aircraft towards the operator before it takes off
Out of control, spinning around on its own, abnormal sound	The Transmitter signal is interfered or the aircraft exceeds the range of remote control	Please fly the aircraft outdoors without interference, and ensure that it is within a controllable range
	Compass interference	Please manually land the aircraft in time and calibrate the compass. Please make sure to fly away from the buildings, trees, power lines, and signal towers
	The propellers become deformed and incomplete	Replace the propellers with new ones
Need to calibrate compass each time	To reduce the situation of out of control, improve its stability and make it return more accurate	Calibrating it follows the user manual or APP commands
Video freezes, image transmission distance is short	The joysticks are moved too fast when controlling the aircraft	Move the joysticks slowly
	The aircraft is out of Wi-Fi range	Fly the aircraft within the range of the Wi-Fi
	WiFi image transmission signal interference	Fly the aircraft in an unobstructed open area free of buildings, high-voltage wires and signal towers
	The transmitter and the mobile phone are not pointed at the direction of the aircraft	Point the transmitter and the mobile device at the flying direction of the aircraft to maintain the trongest signal connection

6. Appendix

	Phone performance freezes	Close unused apps running in the background to maintain the best performance of the phone
	The remote control antennas aren't unfolded	Unfold the antenna and mobile phone holder and make the antennas aim at the flying direction of the aircraft
App does not display the interface	The phone is not connected to Wi-Fi	Connect your mobile device to the Wi-Fi: Redrie-HK33-XXXXXX
	The phone version is too low	Required Android 9.0 and above. Or IOS 12 and above.
	It's intercepted by mobile phone plug-in	Turn off the intercept function and modify permissions
	VPN switch is turned on	Turn off the VPN switch
APP crash or its functions are abnormal	Wrong app downloaded	Download the correct APP
	The phone version is old and not compatible with the APP	Give us your mobile phone version model and we will give you a corresponding solution
Phone cannot connect to Wi-Fi	It is the first time to connect your phone to the Wi-Fi	Try connecting a few more times or restart the phone
The WiFi name is not displayed in the list	WiFi has not been activated	Wait for about 30 seconds after turning on the aircraft and keep refreshing the Wi-Fi list while the Wi-Fi is activated
	The aircraft doesn't pair with the remote control	Turn on the aircraft and remote control and it takes about 40 seconds for the aircraft to connect to the remote control. And then you can find the Wi-Fi name in the List
GPS signal is weak	Turning on the aircraft indoors	GPS signals cannot be found indoors. Please search for GPS signals in an open place outdoors
	Under the tree, next to the building, in an obstructed place	Please stay away from obstacles for more than 32.81 feet(10 meters), and search for GPS signals in an open area

6. Appendix

Unable to return home, drifting and flying away	GPS signal was turned off during the flight	Please don't turn off GPS suddenly during outdoor flight. Switch back to GPS mode in time
It takes too long for the aircraft to pair with the remote control	It takes about 40 seconds for the aircraft to connect to the remote control	Please wait for about 40 seconds patiently
Cannot charge battery/Cannot fully charge battery	Using inferior charger or charging on the computer with unstable voltage output	Use a mobile USB charger that ensures constant stable voltage output(5V) and amperage output(2-3A)
	Using inferior charging cables	Please use the original factory charging cable to charge
Short battery life	Flying in windy weather	Flying in windy weather will accelerate power loss
	The battery is not fully charged	Please use a charger with 5V/2A or 5V/3A to charge it
	Flying in cold weather	In low temperatures, the chemical reaction of the lithium battery is slowed down and the energy cannot be fully released
The product has slight marks	We tested all aircraft before shipping	In order to give you the best experience, we tested functions of all aircraft before shipping. Therefore, it is inevitable that there will be slight traces. However, it can be guaranteed that all aircraft are 100% brand new

6. Appendix

6.3 After Sales Service Guarantee

This device comes with a 12-month warranty starting from the date of purchase. If you have any inquiries or require assistance regarding this product, please feel free to contact us directly through our dedicated after-sales service mailbox.

After-sales Service Email: support@redrie.com

After-sales Service Phone: (888) 742-6588

No FAA Required

Aircraft takeoff weight includes battery, propellers, and a microSD card.
Registration is not required in some countries and regions. Check local rules and regulations before use.

⚠ Fly responsibly

The Federal Aviation Administration requires registration of many drones flown in the US, for hobby or commercial purposes. To learn more about drone registration requirements, visit the Federal Aviation Administration's drone page https://www.faa.gov/uas/.