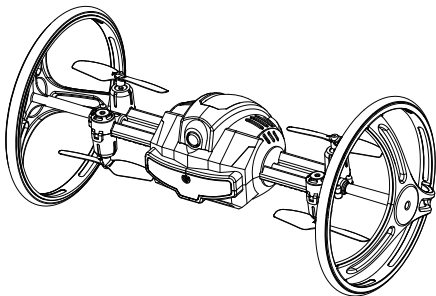


Rolling Drone

INSTRUCTIONS FOR USE



FORBIDDEN:

H4831

Special design for indoor & outdoor, please keep it away from obstacle.

This product is suitable for indoor/outdoor (the wind grade should be not more than 4), please choose a place without obstacle, and keep distance from crowd and pets, don't play it under unsafety, for instance, heat source, wire or electronic power source in order not to be damaged by collision landing, entanglement and lead to a fire, electric shock and cause losses of lives and property.

CONTENT

1.0 Disclaimer & Warnings	1
2.0 Safety Guidelines	2-4
3.0 Packing list	4
4.0 Drone's Details	5-6
5.0 Transmitter Functions	7
6.0 Joystick Mode	7
7.0 Installation	8-10
8.0 Charging	10-11
9.0 Operation Guide	
9.1 Pairing	11
9.2 Calibrating the Gyro	12
9.3 Taking-Off / Landing Method	12-13
10.0 Function Details	
10.1 Emergency Stop	13
10.2 Trimming	14
10.3 Headless Mode	15
10.4 Speed Switch	16
10.5 360° Flip/Air Hop	16
10.6 LED ON/OFF	17
10.7 Circle Fly	17
10.8 Race On Land Mode	18
10.9 Drone ground bounce function	19
10.10 Drone ground Lift-up function	20
10.11 Drone ground 360°-spinning function	20
10.12 Drone Wall-crawling function	21

1.0 DISCLAIMER & WARNINGS

1. Please read this disclaimer, warnings and safety guidelines carefully before using our product. This product is not recommended for people under the age of 14. By using this product, you hereby agree to this disclaimer and signify that you have read it fully. You agree that you are responsible for your own conduct and any damage caused while using this product, and its consequences. You agree to use this product only for purposes that are proper and in accordance with local regulations, terms and all applicable policies and guidelines we may make available.
2. When using this product, please be sure to strictly abide by the specification requirements and safety guidelines stated in this document. Any personal injury property damage, legal disputes and all other adverse events caused by the violation of the safety instructions or due to any other factor, will not be our responsibility.

WARNINGS

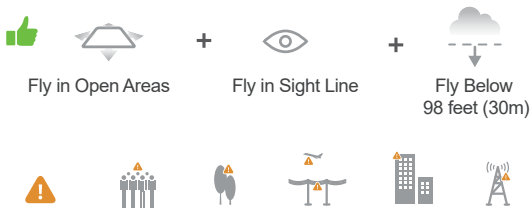
- (1). The drone is designed for age 14+.
- (2). Adult supervision is always advisable with any form of flying toy.
- (3). Always ensure your flight area is free of any obstacle before taking off, and ensure the drone is always flown in excess of 1.5 meters from yourself and others.
- (4). Remove all batteries from the drone and transmitter when not in use.
- (5). Never overcharge battery.
- (6). Never leave to charge battery unattended.
- (7). Never touch the drone's motors during or after flight as they can get hot.
- (8). Never touch the propellers when they are in rotating.
- (9). If the drone becomes damaged, stop using it immediately.
- (10). Do not dispose of any parts of the drone or transmitter in the normal rubbish, all parts should be taken to your local recycling centre.
- (11). The battery in the drone should never be exposed to any form of high temperature or disposed in a fire.

2.0 SAFETY GUIDELINES

2.1 Check Before Use

- (1). This product is not a toy, but a high precision drone that integrates various electronic stability and control mechanisms. Please be sure to set up this drone carefully and correctly to ensure safe, accident-free operation.
- (2). Please be sure that the batteries of the drone and transmitter are clean, undamaged and have enough power.
- (3). Please be sure that all the propellers are undamaged and are installed in the right orientation.
- (4). Please do a thorough check of the product before each use. Check for firmness of the parts, any signs of cracks and wear of the propeller, battery power and effectiveness of the product until all the issues have been checked completely.

2.2 Safe Flight Environment



1. Make sure the surrounding area is free of any people, pets or other obstacles before you start to fly your drone.
2. Your drone is designed for indoor or outdoor use. However, it is not recommended to fly the drone indoor if there is a limited space, or outdoor if there is strong wind.
3. Keep a safe flight distance between you and the drone at all times.

2.3 Use of Battery

- (1) Please ensure the batteries are fitted in the correct orientation as shown in the instruction manual.
- (2) Avoid short circuits by fitting the batteries incorrectly, and do not crush the batteries as this may cause the risk of an explosion.
- (3) Do not mix new and old batteries as this can lead to a poor performance of the product.
- (4) Dispose used batteries carefully.
- (5) Please keep dead batteries away from heat and fire.
- (6) If the device is not going to be used for a long time, remove batteries to prevent potential damage from battery leakage.
- (7) It is recommended to only use the original USB charging cable that comes with the drone to charge the battery.
- (8) Don't connect the battery directly to wall outlets or car cigarette-lighter sockets.
- (9) Don't attempt to disassemble or modify the battery in any way.
- (10) Don't use the battery if it gives off an odor, generates heat, becomes discolored or deformed, or appears abnormal in any way. If the battery is in use or being charged, remove it from the device or charger immediately and discontinue use.

Notes: Please ensure the batteries for the drone and the transmitter are full before flight.



Li-Po Battery Disposal & Recycling

Waste Lithium-polymer batteries must not be placed with household trash. Please contact local environmental or waste agency or the supplier of your model or your nearest Li-Po battery recycling center.



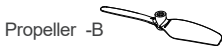
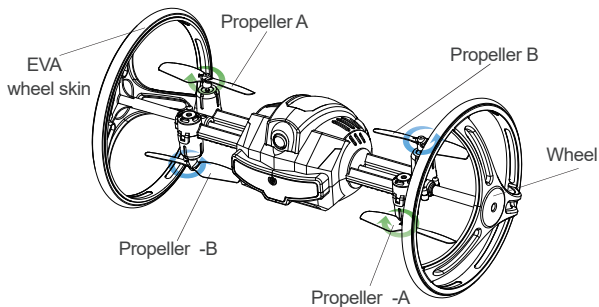
2.4 Maintenance

1. Clean the product after each use with a clean, soft cloth.
2. Avoid prolonged exposure to direct sunlight and avoid the buildup of heat on the drone or batteries.
3. This device is not waterproof and must not be submerged or subjected to water under any circumstance. Failure to keep the device completely dry will result in failure and permanent damage to the unit. Be aware that although it might be dry where you are, droplets of rain or mist from a river or waterfall could damage your drone where it is flying.
4. Frequently check the charging plug and other accessories for signs of damage. If any part of the device or cables is damaged, avoid the use or charging until the device can be serviced.

3.0 PACKING LIST

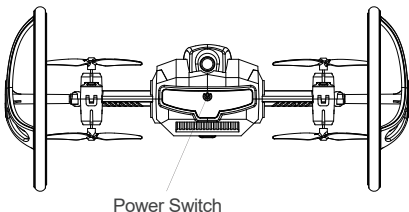
			
Drone	Transmitter	Drone Battery	USB Charger
			
Propellers	Propeller Screwdriver	Screwdriver	User Manual

4.0 DRONE'S DETAILS

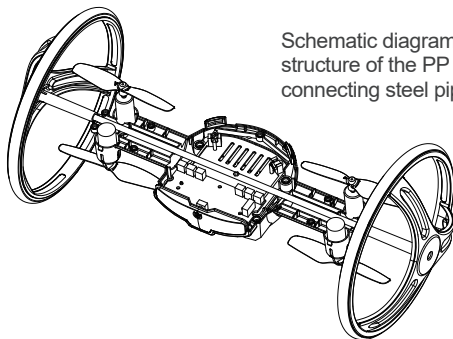
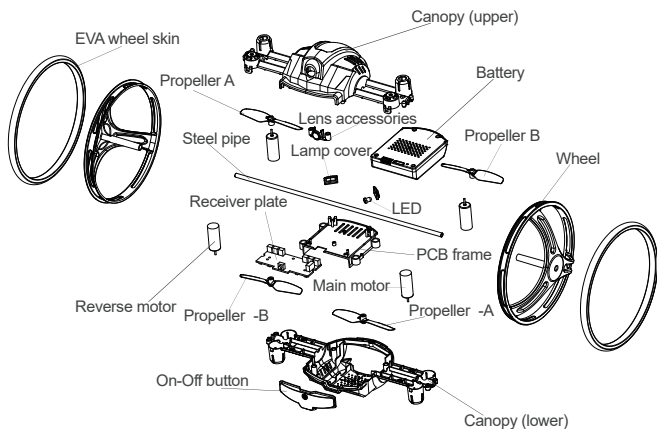


WARNING

It is crucial that all the propellers are installed in the correct position (Pay attention to the letter A,-A or B,-B printed underneath each propeller).

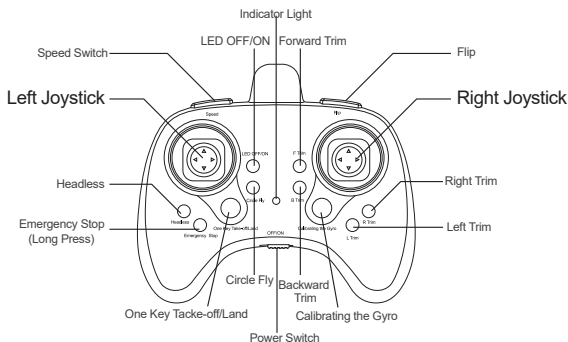


Exploded view of Rolling Drone

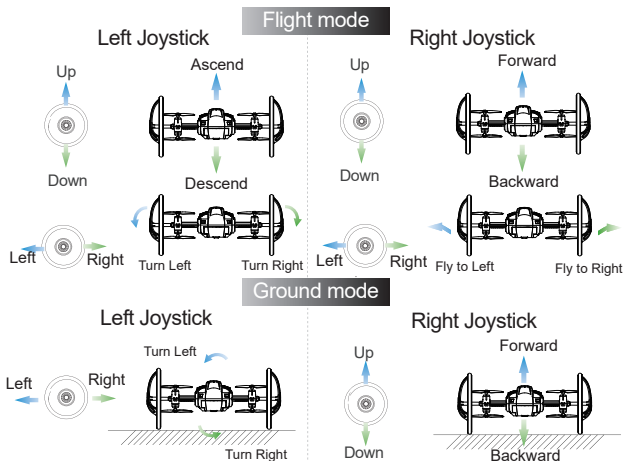


Schematic diagram of the internal structure of the PP wheels and connecting steel pipe in the drone

5.0 TRANSMITTER FUNCTIONS



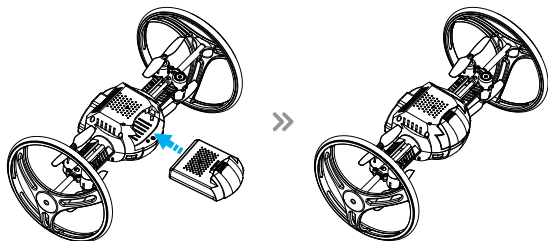
6.0 JOYSTICK MODE



7.0 INSTALLATION

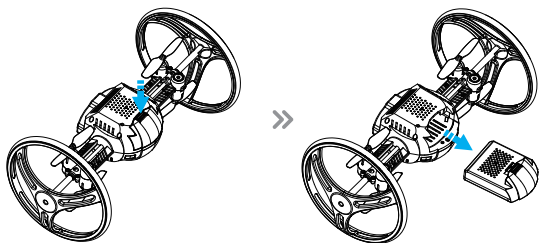
7.1 Drone Battery

Installation: Insert the battery into the fuselage from the battery compartment at the rear of the drone. Make sure it is installed in place properly and the battery does not loosen.



WARNING

The battery should be installed firmly. Otherwise, the flight safety of your drone may be affected. The drone may crash due to power cut during the flight.

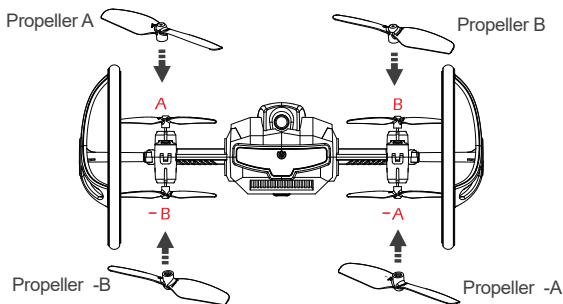


Remove: Press down the battery tab and push the battery out of the battery compartment.

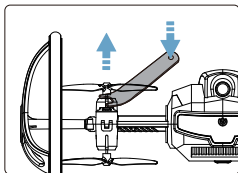
7.2 Propellers

Installation: As shown below, put each propeller to its corresponding motor shaft, either position "A/B -A/-B".

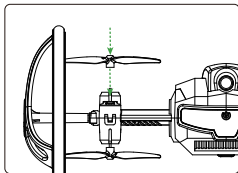
Propellers A and B need to be installed on the motor from top to bottom.



Propellers -A and -B need to be installed on the motor from bottom to top.

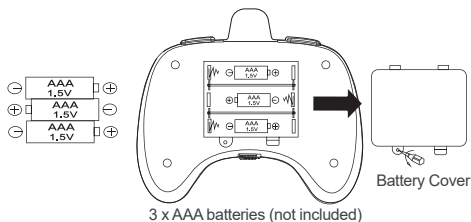


To remove the blades: insert the blade driver diagonally into the bottom of the blade and push it down.



Find the corresponding type of blades (A to A, B to B, -A to -A, -B to -B), and press the blades vertically to the motor shaft until the blades reach to the level of the protection rings.

7.3 Transmitter Battery



Always use alkaline batteries, never mix old and new batteries.

WARNING

1. Unscrew the battery cover, press and slide the battery cover out, and insert 3 x AAA batteries(not included), make sure to insert them following the correct polarity as shown.
2. Re-attach the battery cover.

8.0 CHARGING

8.1 Drone Battery

Before charging, please read the instruction of the "2.3 Use of Battery" section of the "Safety Guidelines" carefully!



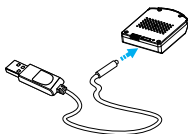
USB Adapter
(5V@0.5-2.0A)



Power Bank



Computer USB Port

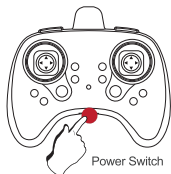


1. Plug the USB charging cable into a USB charging port on the computer, power bank or USB adapter (5V @ 0.5 to 2.0A).
2. Connect the wire of battery with USB charging cable.
3. Charging time: about 120-150 minutes.
4. When the battery is being charged, the USB indicator light is red, and when the battery is fully charged, the USB indicator light will turn green.

9.0 OPERATION GUIDE

9.1 Pairing

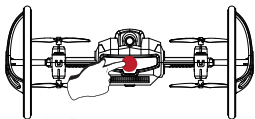
- (1). Push the power switch to the right to turn on the remote control. At this time the remote control will make a beep, and the power indicator of the remote control will flash.



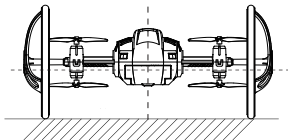
WARNING

If you have 2 or more drones, DON'T turn on 2 or more drones at the same time. Only when one is successfully paired, you can turn on another drone.

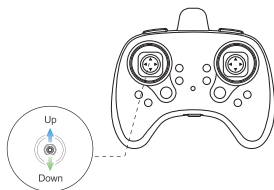
- (2). Push the power switch of the drone to the right to turn on the drone, and the indicator light of the drone will flash rapidly at this time.



- (3). Place the drone on a flat and level surface with the head forward and the tail towards the operator.



(4). Slowly push the left joystick of the transmitter up to the top (the transmitter will beep once); then pull it down to the bottom (the transmitter will beep once again). When the power indicator of the remote control turns solid, and the LED lights of the drone appear "flickering", the pairing is completed.



9.2 Calibrating the Gyro

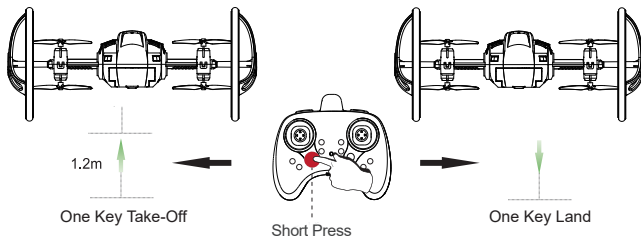
After pairing, press the gyroscope calibration button. The remote control will make a beep, and the LED lights of the drone will flash quickly for 2 seconds. At this point, the drone is reset to factory settings and is ready to fly.



WARNING

Always do calibration after pairing or when the drone loses balance to keep the drone balanced.

9.3 Taking-Off / Landing Method



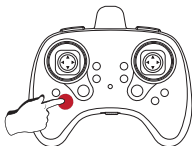
Method 1: Press the one key take-off/land button, the drone will automatically take off and hover at an altitude about 1.2 meters. Short press the one key take-off/land button again, the drone will land slowly until landing.

Method 2: Pull the left joystick down until propellers stop rotating, the drone will land slowly.

10.0 FUNCTION DETAILS

10.1 Emergency Stop

Long press the emergency stop button on the transmitter, the motors will stop rotating immediately.



 Only stop motors mid-flight in an emergency situation, doing so to reduce the risk of damage or injury.

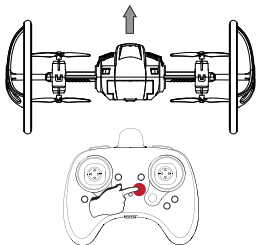
WARNING

10.2 Trimming

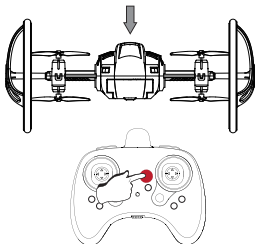


WARNING It's necessary to use trimmer button during flight to keep the drone balanced.

F/B Sideward Fly Trim

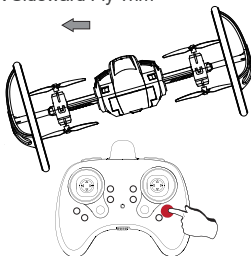


If your drone drifts Forwards, keep pressing the Backward trim button till the drone stops flying forwards.

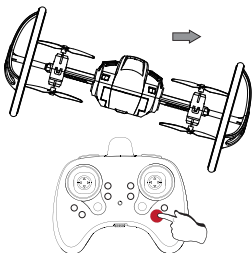


If your drone drifts Backwards, keep pressing the Forward trim button till the drone stops flying backwards.

L/R Sideward Fly Trim

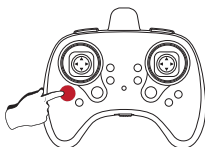


If your drone drifts to the Left, keep pressing the Bank Right trim button till the drone stops banking.

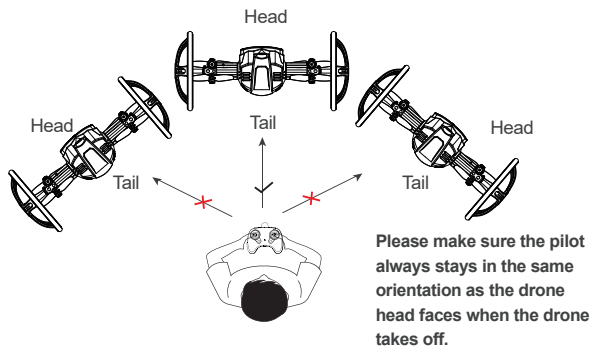


If your drone drifts to the Right, keep pressing the Bank Left trim button till the drone stops banking.

10.3 Headless Mode



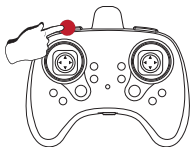
To activate headless mode, press "headless" button, the indicator lights on drone will flash, and the drone will fly in the desired selected direction, regardless of the direction the drone is facing. Press the headless button again to exit headless mode.



Under Headless Mode, the forward direction is the direction that the head of drone faces when the drone takes off. When the pilot pushes the right joystick up, the drone will fly forward. If the pilot pushes the right joystick down, the drone will fly towards him/her. If the pilot moves the right joystick to left/right, the drone will move to left/right relative to the pilot. In order to make sure the pilot can tell drone's direction, we recommend that pilots to stay in the same orientation as the drone head faces when the drone takes off.

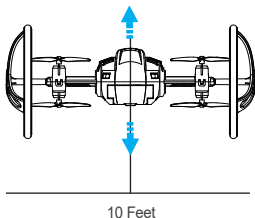
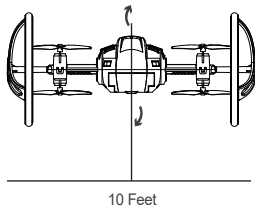
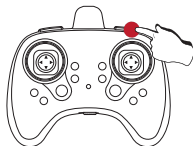
10.4 Speed Switch

By pressing the speed button on the remote control, the drone can change among three different speeds, namely slow/fast/super-fast fight. The remote makes beep when you press it. “Di” indicates Slow Speed, “Di Di” indicates Fast Speed and “Di Di Di” indicates Super-fast Speed.



10.5 360° Flip/Air Hop

When the user are experiencing the 360° Flip/Air hop function, it is a must to pay attention to the flight space of the drone and to ensure that the height of the drone from the ground and the ceiling is not less than 6.5 Feet. When pressing the 360° Flip/Air hop button, the remote control will beep. At this time, push the right joystick



After pressing the 360° Flip/Air Hop button, the remote control will beep. At this point, push the right joystick left/right once, and the drone will hop forward/backward once.

Note:

When the drone battery is low, the 360° Flip/Air Hop function will be deactivated and cannot be used!

10.6 LED ON/OFF

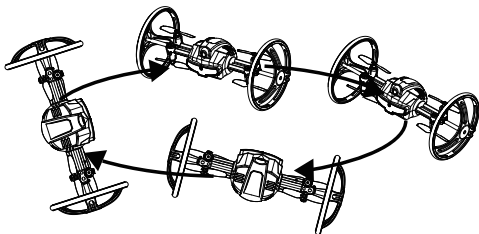
Each time the LED button is pressed, the LED lighting mode will get changed. Users can choose the lights they prefer to fly. After all the lighting modes are switched, press the LED button again to turn off the LED lights on the drone.



10.7 Circle Fly

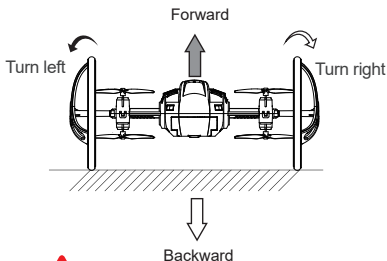
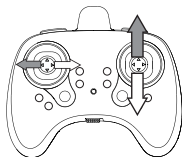


Press the Circle Fly button briefly, the drone will enter the Circle Fly mode. At the same time, push the Left Joystick to the left, and the diameter of the flight circle will become larger. When the Left Joystick is turned to the right, the diameter of the flight circle will become smaller. You can push the Right Joystick to exit the Circle Fly mode.



10.8 Drone forward/backward and turning driving function on the ground

After the drone got connected and paired to the remote control on the ground: push the right joystick up to drive the drone forward, and push the right joystick down to drive the drone backward. Push the left joystick to the left to make the drone rotate left, and push the left joystick to the right to make the drone rotate right.

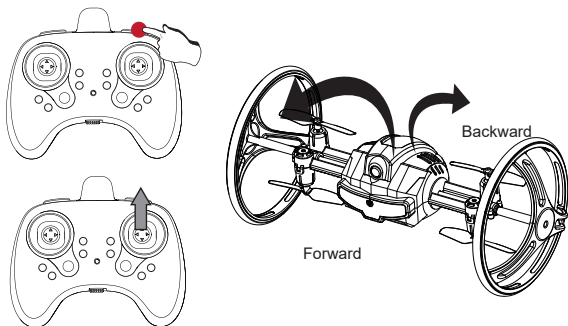


WARNING

1. When the drone is moving on the ground, due to the different surfaces(smooth ground/carpet/wooden floor, etc.)it is on, the friction between the drone wheels and the surfaces (smooth ground/carpet/wooden floor, etc.) are different, and the drone may react slowly/move slowly, which is normal.
2. If the user encounters problems during operation, the user can remove the drone's wheels skin and then control the drone, so that the friction is less and the drone responds quickly to commands.
3. Make sure that the drone battery is fully charged when operating on the ground.
4. If the front and rear lights of the drone flash simultaneously, it indicates that the drone is in low power state. At this point, the ground driving performance of the drone will become slow.
5. Delayed/slow response when the drone moves forward and backward on the ground: Since the structure of the drone adopts a "tumbler" design, the center of gravity of the entire drone is in the middle. If the user push the joystick backward immediately when the drone is moving forward, the drone will continue to move forward because the drone has inertia. The user can stop pushing the joystick forward and then push it backward to move backward. The user can use multiple pushes of the joysticks consecutively to speed up the drone.

10.9 Drone ground bounce function

After pressing the 360° Flip button, the remote control will make a beeping sound. At this time, push the right joystick forward/backward once, and the drone will bounce forward/backward once. The extent and duration of pushing the joystick determine the distance and height of the drone's bounce.



WARNING

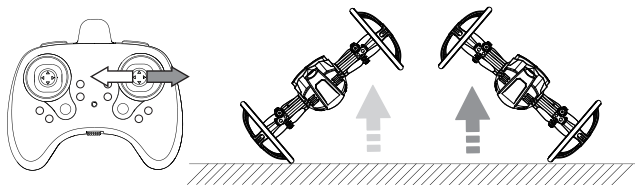
1. When using the bounce function, if the drone bounces too high, it may cause the drone battery to come loose. If the battery becomes loose, the drone will lose power. In this case, the user needs to reinstall the battery, re-switch on the power of both the remote control and the drone, and then pair and synchronize the signals between remote control and the drone.

2. After using the bounce function too frequently, if the user enters the flight mode, the gyroscope must get calibrated by pressing the gyro calibration button before they can fly perfectly. Due to the excessive number of circuit board impacts, the gyroscope data may become chaotic. In this case, if the user enters the flight mode, the drone will yaw and fly randomly.

10.10 Drone ground Lift-up function

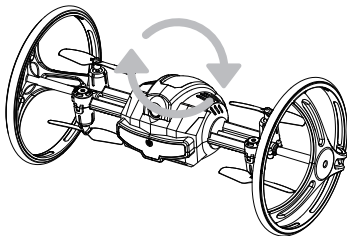
When driving on the ground, push the right joystick of the remote control all the way to the left, and the right wheel of the drone will lift up.

When driving on the ground, push the right joystick of the remote control all the way to the right, and the left wheel of the drone will lift up.

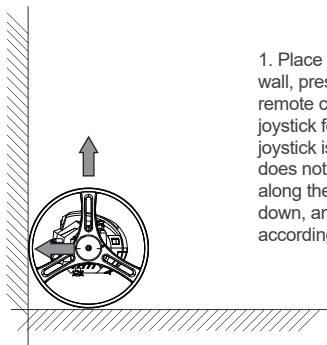


10.11 Drone ground 360°-spinning function

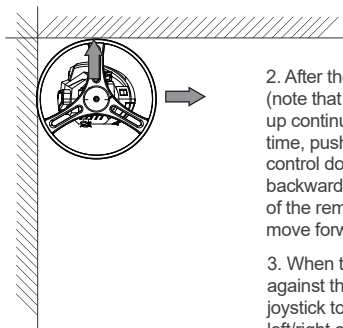
When the battery of the drone is fully charged, remove the wheels skin of the drone and control it. This way, the friction is small and the drone responds quickly. Push the left joystick of the remote control all the way to the left, and the drone will rotate 360° to the left on the ground. Push the left joystick of the remote control all the way to the right, and the drone will rotate 360° to the right on the ground.



10.12 Drone Wall-crawling function



1. Place the drone at the foot of a vertical 90° wall, press the one-key takeoff button of the remote control and immediately push the right joystick forward to the top (note that the right joystick is pushed forward all the time and does not let go), then the drone will crawl along the wall, and push the left joystick up or down, and the drone will crawl up or down accordingly.



2. After the drone slowly climbs to the ceiling (note that the left joystick should be pushed up continuously without letting go), At this time, push the right joystick of the remote control down, and the drone will move backward on the ceiling, push the right joystick of the remote control up, and the drone will move forward on the ceiling.

3. When the drone is remotely controlled against the ceiling, the user can push the left joystick to the left/right, and the drone will turn left/right on the ceiling.

< GENERAL INFORMATION >

FCC Notice:

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions:

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

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

- Reorient or relocate the receiving antenna.
- Increase the distance 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.

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

RF Exposure

The equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This device should be installed and operated with minimum distance 20cm between the radiator & your body.

IC Notice:

This device complies with Canada Industry licence-exempt RSS standard(s). Operation is subject to the following two conditions:

- (1) this device may not cause interference; and
- (2) this device must accept any interference. Including interference that may cause undesired operation of the device.

CAN NMB-3 (B)

RF Exposure

Radiation Exposure Statement:

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Specification

Model: H4831

Weight: 90g (drone) / 300g (with package)

Max Flight Time: 7-9 minutes (per battery)

Operating Temperature Range: 32° to 104°F (0° to 40°C)

Size: 220*100*100 mm

DRONE BATTERY

Capacity: 1100mAh

Voltage: 3.7V

Energy: 4.07 Wh

Battery Type: Lithium-ion Polymer Battery

Charging Temperature Range: 41° to 104°F (5° to 40°C)

Charging Time: 120-150 minutes (depends on charging power)

TRANSMITTER

Operating Frequency: 2.4Ghz

Max Flight Distance: 30-40m (outdoors and unobstructed)

Input: 3xAAA Battery (not included)

Manufacturer:

Shantou Xiaoge Intelligent Technology Co., Ltd.

5th floor, building A, Qunfa Science Park, west of

Jinhong Road, Chenghai District, Shantou, Guangdong, China



spinorbitor.com

service@spinorbitor.com



MADE IN CHINA

