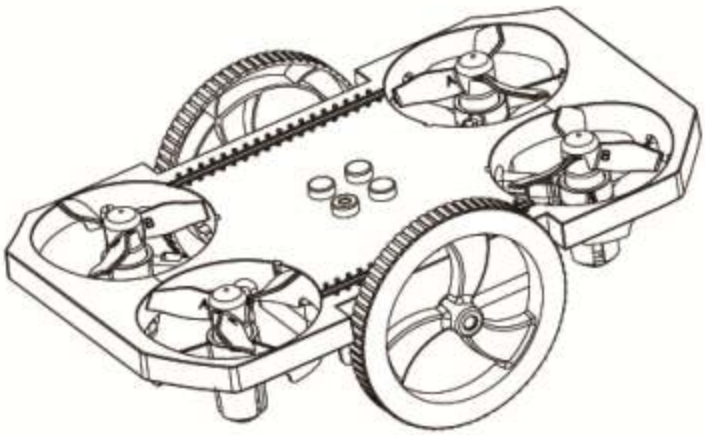
Spinorbitor

ages
8+

Jumping flying car

INSTRUCTIONS FOR USE



EC170

FORBIDDEN:

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.

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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

Fly in Open Areas + Fly in Sight Line + Fly Below 98 feet (30m)

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 fully charged 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.

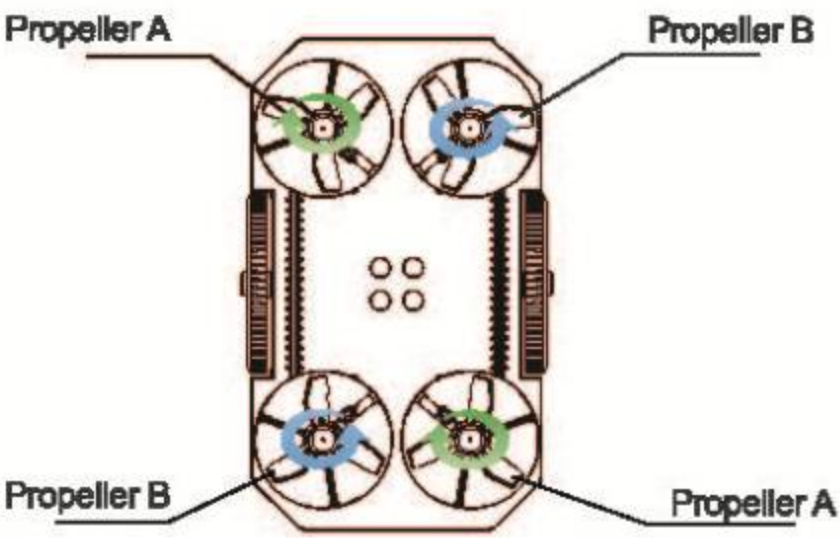
2.4 Maintenance

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.

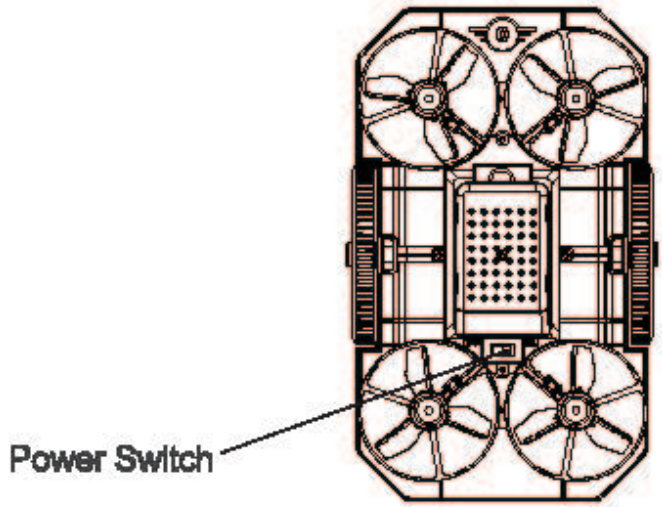
3.0 PACKING LIST

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

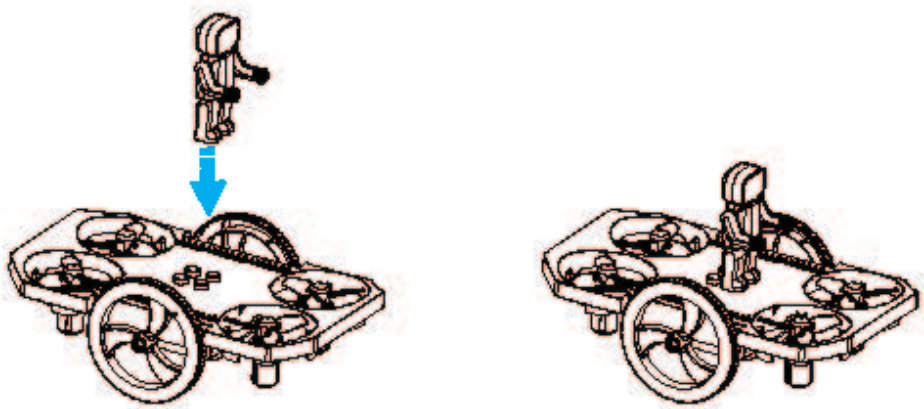
4.0 DRONE'S DETAILS



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

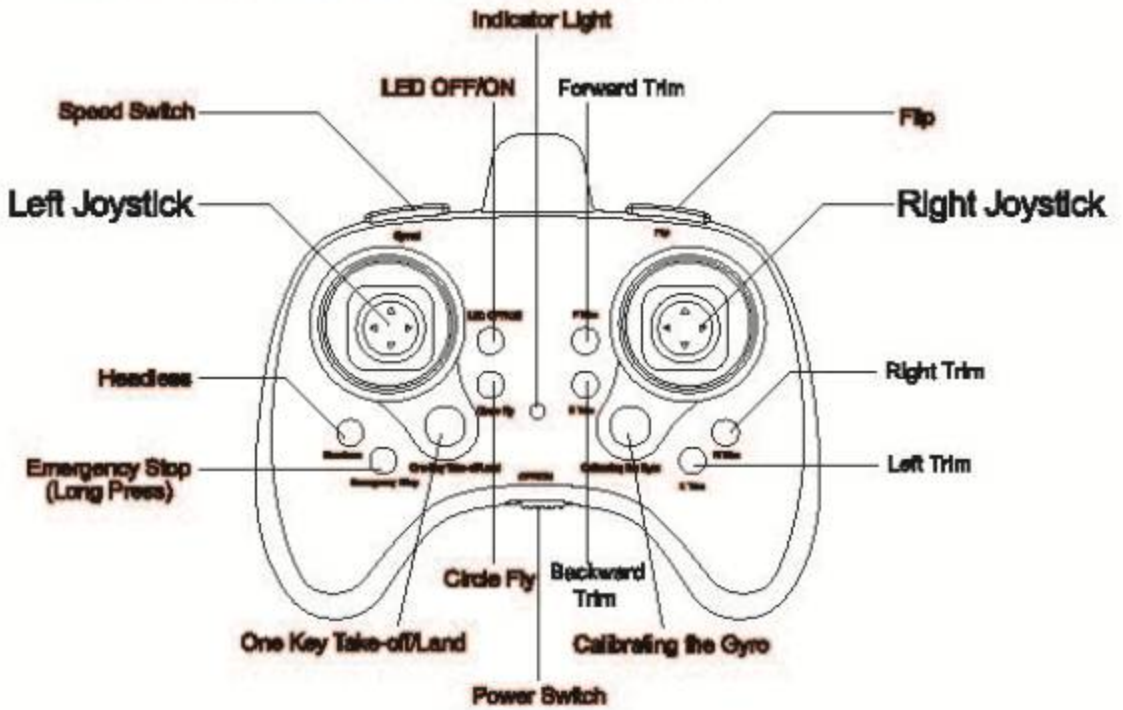


There is a reserved installation position for building block accessories at the top of the drone, and consumers can install the accessories as they want. Please note that the smaller the weight of the accessories, the better. If the accessories are too heavy, it will directly affect the flight state of the drone.

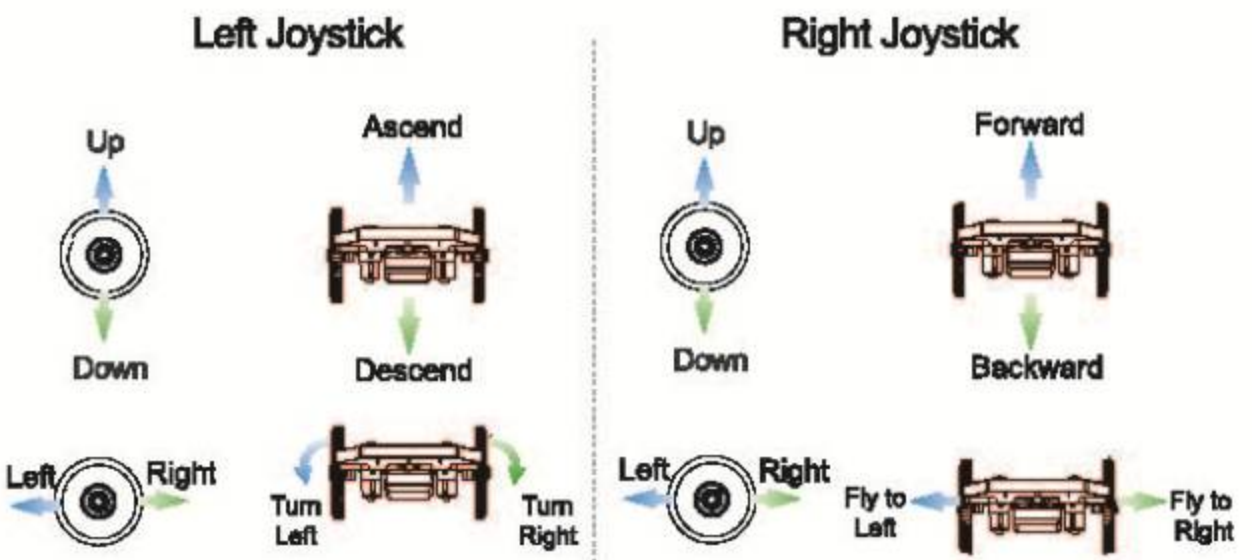


Building block accessories are not included in the product packaging.

5.0 TRANSMITTER FUNCTIONS



6.0 JOYSTICK MODE



7.0 INSTALLATION

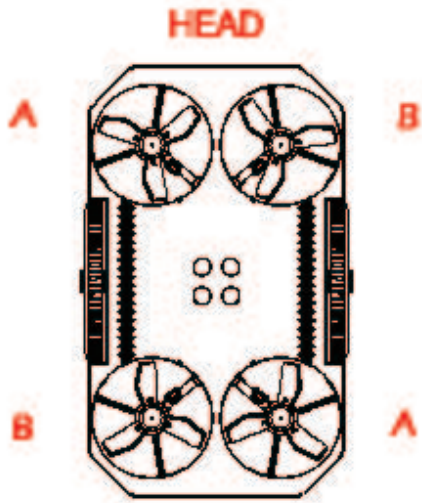
7.1 Drone Battery

Installation: Put the battery into the battery slot, which is underneath the fuselage. Push the battery forward until you hear a click, which indicates that it is firmly installed.

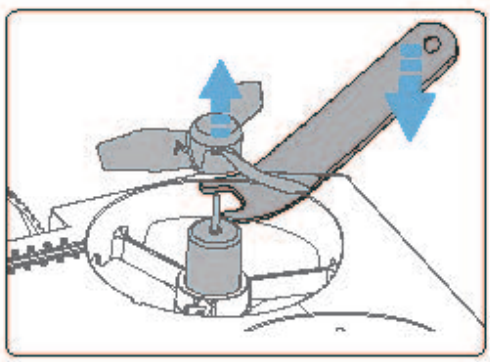
WARNING The battery should be installed firmly. Otherwise, the flight safety of your drone may be affected.The drone may crash due to power out during the flight.

Remove: As depicted above, first push the battery back, then pull up.

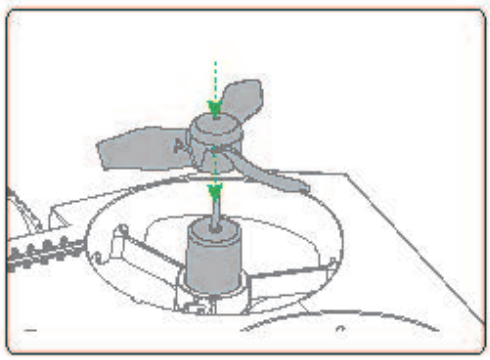
7.2 Propellers



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



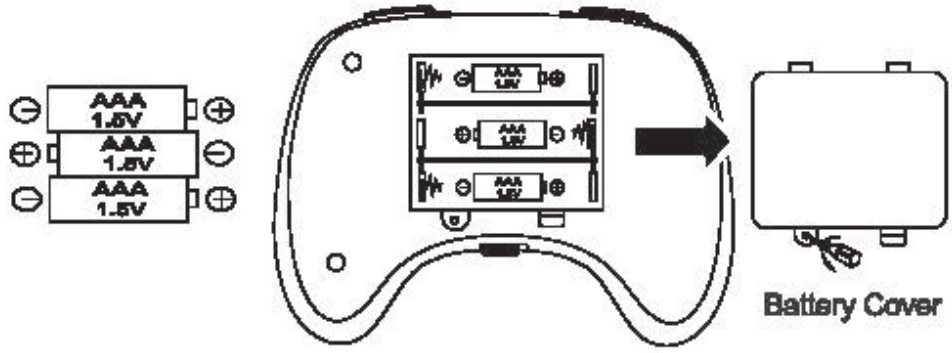
To remove the blades: insert the blade driver diagonally into the bottom of the blade and push it down.



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

Note: When replacing the blades, it is necessary to avoid the blades deformation by external forces. The deformed blades will affect the flight stability of the drone.

7.3 Transmitter Battery



3 x AAA batteries (not included)

WARNING

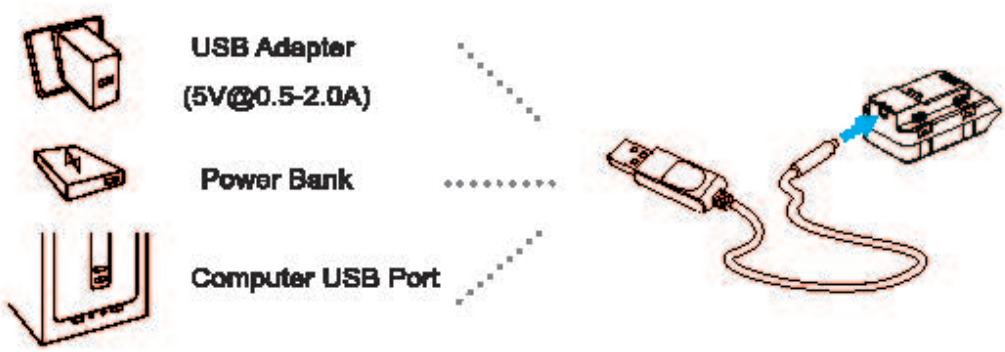
Always use alkaline batteries, never mix old and new batteries.

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!

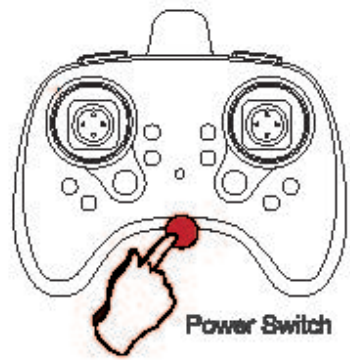


1. Plug the USB charging cable into a USB charging port on the computer, power bank or USB adapter (5V @ 0.5 to 2.0A).
2. Connect the wire of battery with USB charging cable.
3. Charging time: about 60-90 minutes.
4. The red indicator light on the USB charging cable will turn off when the battery is under charging; and will turn on when the battery is fully charged.

9.0 OPERATION GUIDE

9.1 Pairing

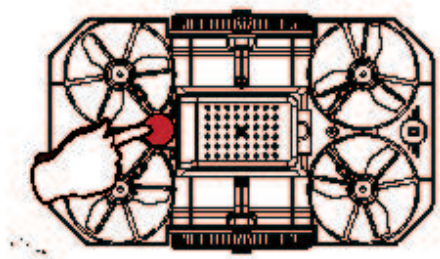
(1). Push the power switch to the right to turn on the remote control. At this time the remote control will make a beep, and the power indicator of the remote control will flash.



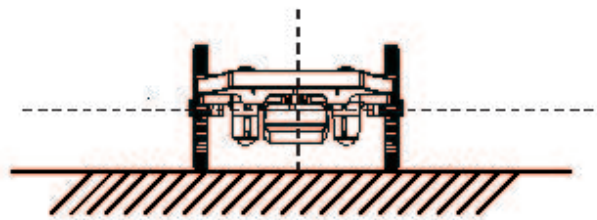
WARNING

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.

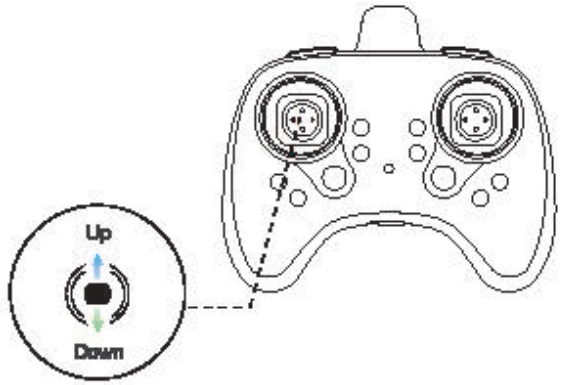
(2). Push the power switch of the drone to the right to turn on the drone, and the indicator light of the drone will flash rapidly at this time.



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

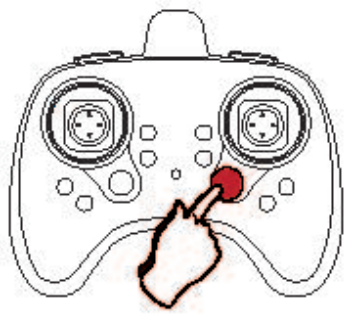


(4). Slowly push the left joystick of the transmitter up to the top (the transmitter will beep once); then pull it down to the bottom (the transmitter will beep once again). When the power indicator of the remote control turns solid, and the LED lights of the drone appear "flickering", the pairing is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



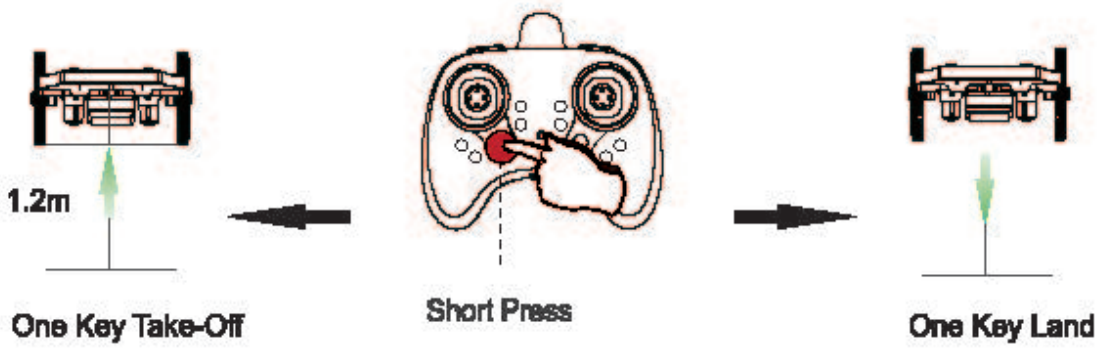
9.2 Calibrating the Gyro

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



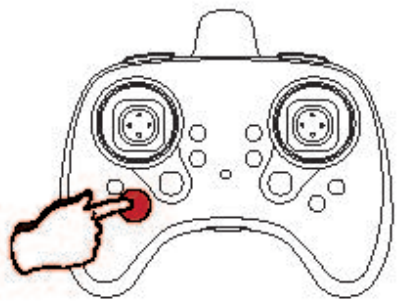
Method 1: Press the one key take-off/land button, the drone will automatically take off and hover at an altitude about 1.2 meters. Short press the one key take-off/land button again, the drone will land slowly until landing.

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.

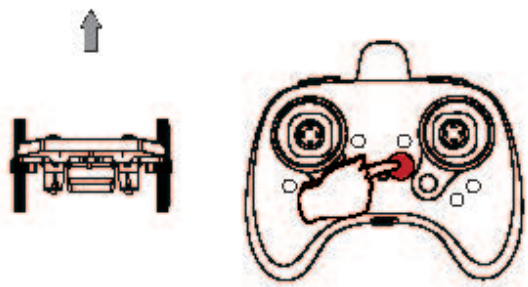


WARNING Only stop motors mid-flight in an emergency situation, doing so to reduce the risk of damage or injury.

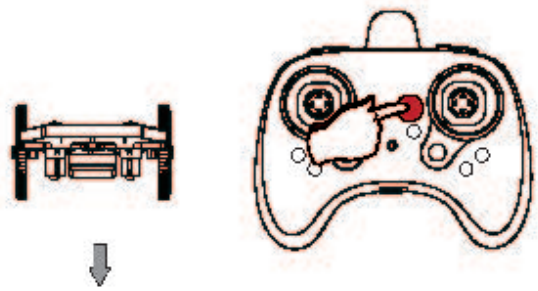
10.2 Trimming

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

F/B Sideward Fly Trim

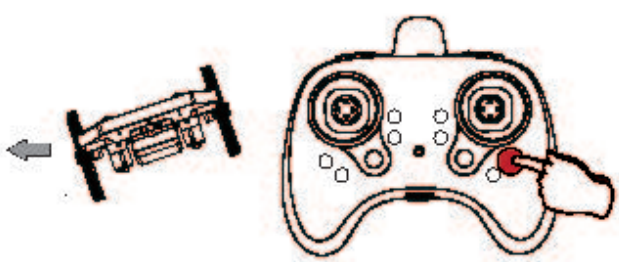


If your drone drifts Forwards, keep pressing the Backward trim button till the drone stops flying forwards.

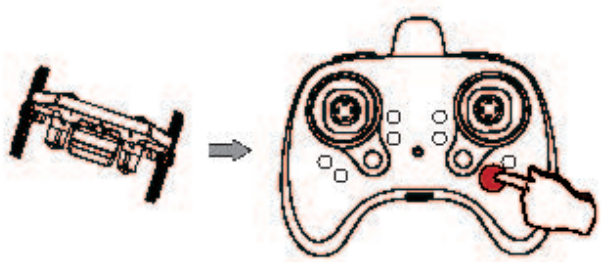


If your drone drifts Backwards, keep pressing the Forward trim button till the drone stops flying backwards.

L/R Sideward Fly Trim

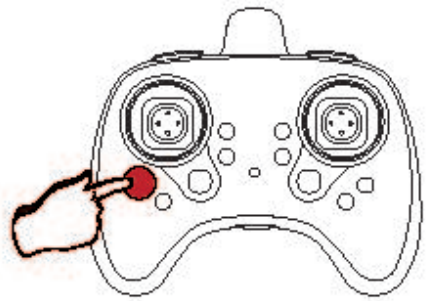


If your drone drifts to the Left, keep pressing the Bank Right trim button till the drone stops banking.

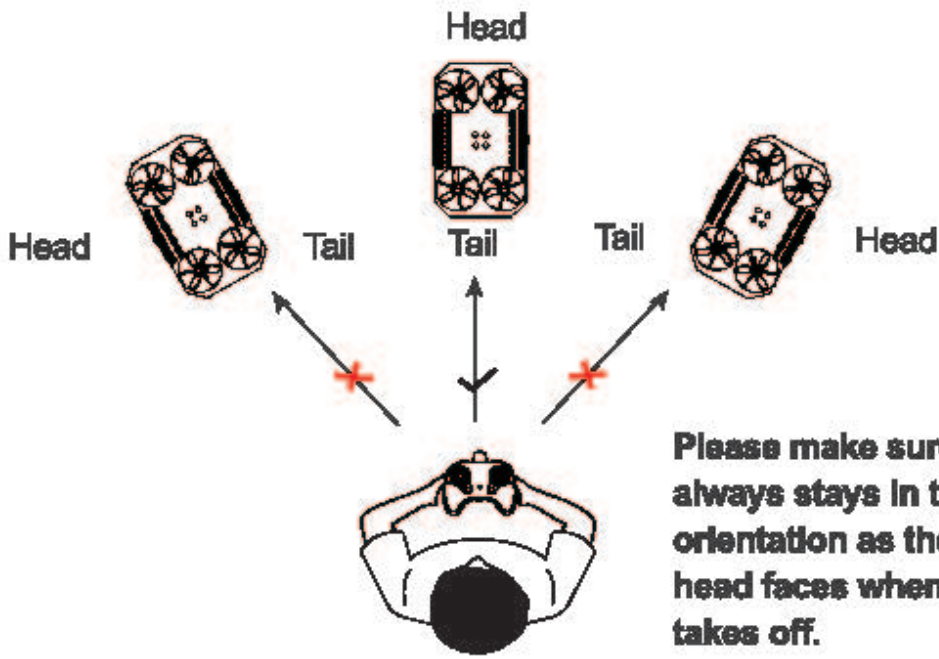


If your drone drifts to the Right, keep pressing the Bank Left trim button till the drone stops banking.

10.3 Headless Mode



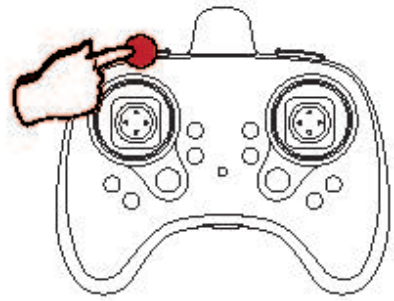
To activate headless mode, press "headless" button, the indicator lights on drone will flash, and the drone will fly in the desired selected direction, regardless of the direction the drone is facing.Press the headless button again to exit headless mode.



Please make sure the pilot always stays in the same orientation as the drone head faces when the drone takes off.

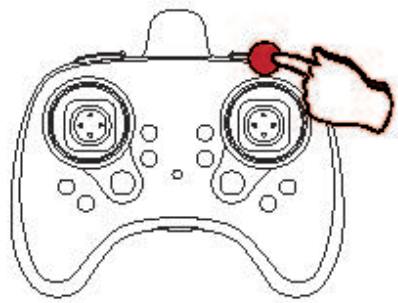
Under Headless Mode, the forward direction is the direction that the head of drone faces when the drone takes off. When the pilot pushes the right joystick up , the drone will fly forward. If the pilot pushes the right joystick, down the drone will fly towards him/her. If the pilot moves the right joystick toleft/right, the drone will move to left/right relative to you. 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

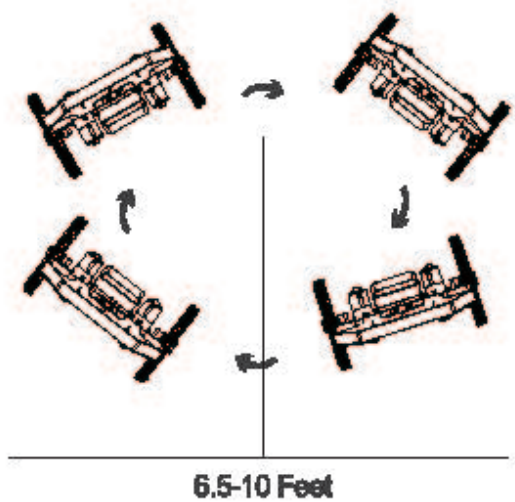


By pressing the speed button on the remote control, the drone can change among three different speeds, namely slow/fast/super-fast fight. The remote makes beep when you press it. "Di" indicates Slow Speed, "Di Di" indicates Fast Speed and "DI DI DI" Indicates Super-fast Speed.

10.5 360° Flips



Perform 360° flips by pressing the "flip" button and immediately operate the right joystick in the desired direction.



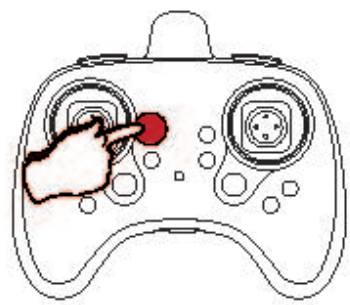
When you get familiar with all the functions of the drone, you can try this amazing flip mode. When you fly the drone at least 6.5 feet high, press the 360° Flip button, then push the right joystick Forward/ Backward /Left/ Right, and the drone will do a flip towards the corresponding direction.

Tips:

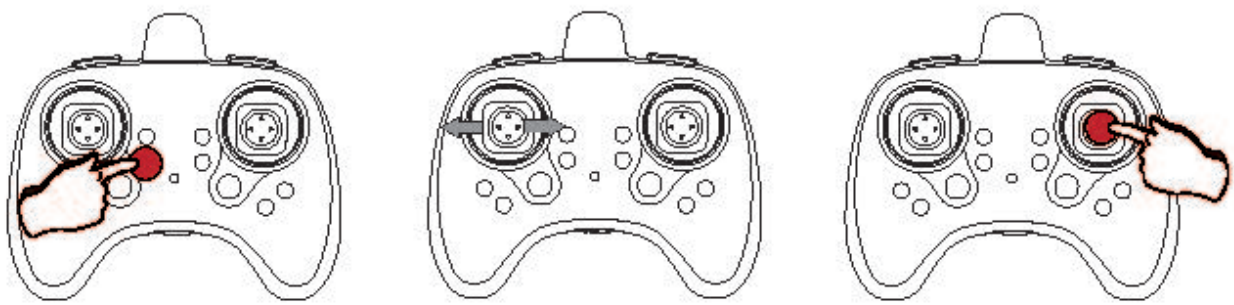
This function will perform better when the battery is full.This function won't work when battery is low.

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. The lightcabe changed orturned off by pressing this button.

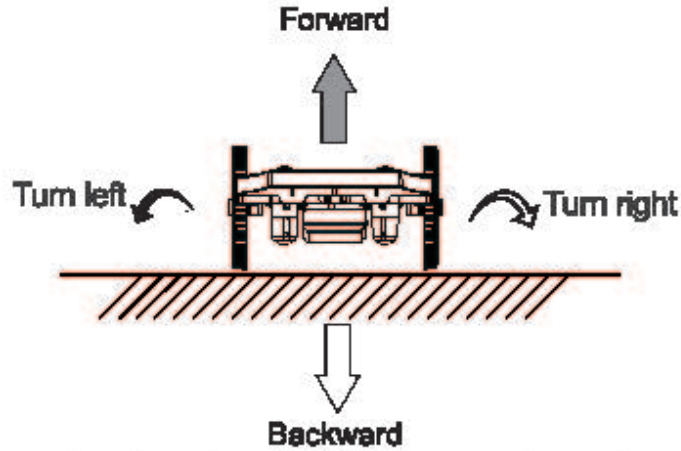


10.7 Circle Fly



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 Race On Land Mode



Turn on the drone and place it on a level surface. At the same time, turn on the remote control and pair the frequency. Push the right joystick of the remote control upwards, the drone will move forward on the ground; pull the right joystick of the remote control downwards, the drone will move backward on the ground. Push the left joystick to the left, the drone will turn left on the ground; push the left joystick to the right, the drone will turn right on the ground.When the drone is racing on the ground, the speed can be adjusted too.(See 10.4 Speed Switch)

Race On Land Mode

When the drone is in ground driving mode. press the '360° Flips' button, push the right joystick up and let go, the drone will automatically jump forward once. At the same time, user can push the right joystick up further to achieve a longer forward jump distance of the drone.

WARNING

Since the battery compartment is located at the bottom of the drone, when the drone is performing the jump function, if the drone jumps too high and falls to the ground, the battery may become loose or the drone may flip upside down. If the battery becomes loose, reinstall the battery and pair the frequency and then you can re-control it. If the drone flips upside down, you need to put the drone straight and flat before you can re-control it.

< GENERAL INFORMATION >

FCC Warning Statement
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.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.
NOTE: This device and its antenna(s) must not be co-located or operation in conjunction with any other antenna or transmitter.

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

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MADE IN CHINA