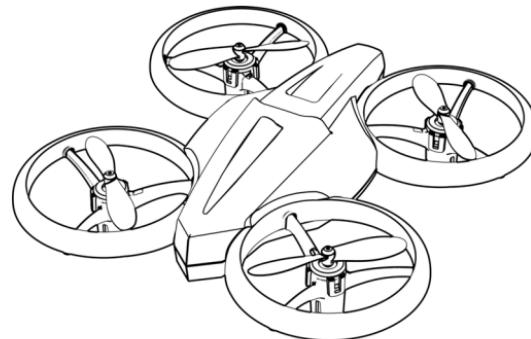


14+

# 809 DRONE

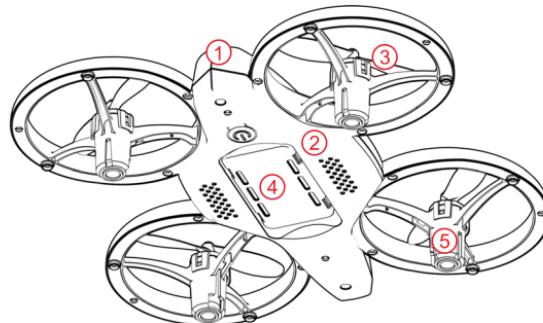
## INSTRUCTION MANUAL



\*Please read this manual carefully before operation and keep it properly for future reference.

## KNOW YOUR DRONE

The drone uses the 2.4GHZ frequency band and can be operated by multiple people at the same time without interfering with each other. Through the remote control, the drone can be controlled to fly, roll, fine-tune, rise/fall with one click, speed conversion, etc.



- ① Upper part of the casing
- ② Lower part of the casing
- ③ Propeller
- ④ Battery
- ⑤ Circuit Board

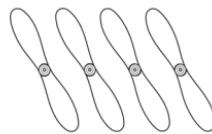
## ACCESSORIES



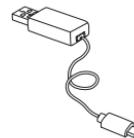
Drone x1  
(Battery Included)



Remote Control x1



A x2, B x2  
(Backup Propellers x4)



USB Charging Cable x1



User Manual x1

## PRE-FLIGHT PREPARATION

1. Please select an optimal flying environment.



Indoor: Spacious spaces away from barriers, crowds or pets are preferred.



Outdoor: Sunny, windless and breezy weathers are preferred.

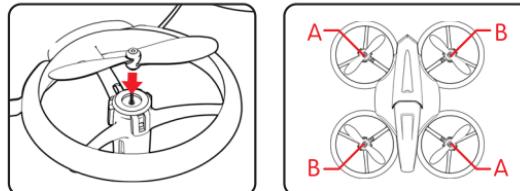


Please keep the drone in sight during the flight and keep it away from barriers, high-tension cables, trees and people.



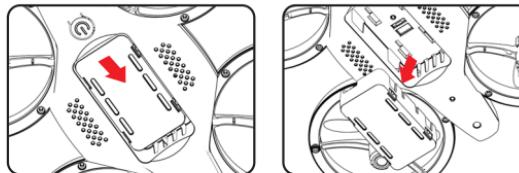
Do not fly in extreme environment, such as hotness, coldness, strong wind or heavy rain.

## 2. Propeller Installation

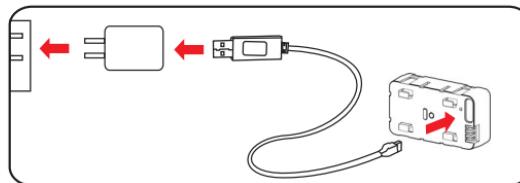


Align the propellers to the motor shaft and press them until fixed.  
(Match Propeller A with Shaft A and Propeller B with Shaft B)

## 3. Battery Charging for the Drone



Press the arrow position, push the battery box down, and then take out the battery.



USB charger connects battery to USB charging interface.  
The LED red light turns on during charging and turns off when charging is completed.  
Charging time is about 120 minutes.  
The aircraft can be used for about 6 minutes, and the roll function is suspended to save power and make the flight last longer;

## **⚠ BATTERY INSTRUCTIONS**

1. There is a certain risk when using battery that may cause body injury or property loss. Users must be aware of the risks and take full responsibility of using battery improperly.
2. If battery leakage occurs, please avoid contacting your eyes or skin with electrolyte. Once it happens, please wash your eyes with clean water and seek medical care immediately.
3. Please remove the plug immediately if you sense any peculiar smell, noise or smog.

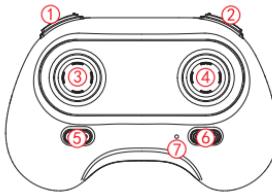
## **BATTERY CHARGING**

1. Please use the charger from original factory to ensure your safe usage.
2. Do not charge dilatant or outworn battery.
3. Do not over charge the battery. Please unplug the charger once fully charged.
4. Do not charge the battery next to inflammables, such as carpet, timber floor or wood furniture or on the surface of electro-conductive objects. Please always keep an eye on the battery when charging.
5. Do not charge battery which not cooled down yet.
6. The charging temperature should be between 0°C to 40°C.
7. For charging, please use the appropriate adapter with output of 100–240V ~50/60Hz 0.5A and input of 5.0V–500mA .5–1.5A. Do not use quick charger for charging.

## **RECYCLING**

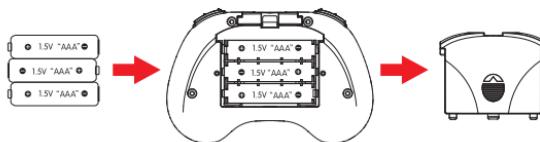
This product contains electronic components and battery. Please dispose it according to the special requirement of your local garbage disposal method.

## KNOW YOUR REMOTE CONTROL



- ① Speed conversion  
long press to rotate quickly
- ② roll / Long press light control
- ③ Left operating stick: up/down/  
left/right steering  
(press headless mode)
- ④ Right joystick: forward/  
backward/left and right  
(press the fine adjustment mode)
- ⑤ Ascend, descend / Press and hold  
for emergency stop
- ⑥ Power switch
- ⑦ Indicator Lights

### 1. Battery Installation for Remote Controller



Open the battery compartment cover and insert three 1.5V AAA batteries (not included) with the poles aligned as instructed.

#### Notes:

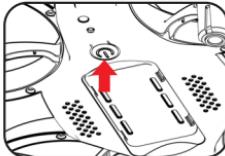
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- 1. Pay attention to batteries' polarity when installing, never reverse them;
- 2. Never mix new batteries with used batteries;
- 3. Never mix batteries of different types.

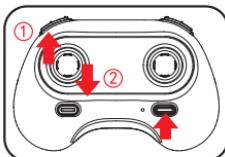
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## 2. Pair the Remote Controller with the Drone

① Turn on the power switch of the fuselage, place the drone on a horizontal surface, and the indicator light of the drone flashes slowly, indicating that it is waiting for pairing.



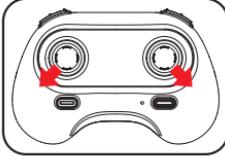
② Power on the remote controller. When the remote controller's indicator light blinks, toggle the left joystick upward with a sound of beep and then toggle it downward with a sound of beep. When the remote controller's indicator light and drone's indicator light turn solid, the pairing has been successful.



### One Key Calibration

If the drone cannot take off vertically, you can calibrate the drone. At the same time, push the left joystick to the lower left and the right joystick to the lower right. You will hear a "beep" sound, and the drone indicator light will flash quickly. When the indicator light stays on, the calibration is complete.

When executing the calibration command, it must be executed in a stable state parallel to the horizontal line, otherwise it will affect the calibration effect.



# FLY WITH REMOTE CONTROLLER

## Basic Flights

The left joystick serves for flight altitude and left/right turning, and the right joystick serves for forward/backward and left/right sideward.

### Left Joystick

Ascent

Descent

Turn Left

Turn-Right

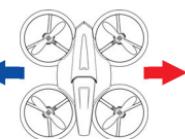
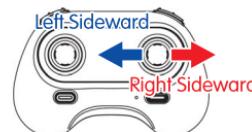
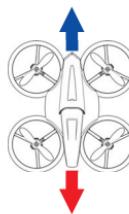
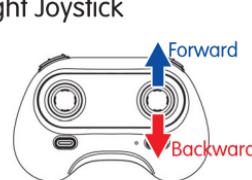
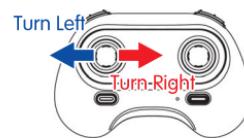
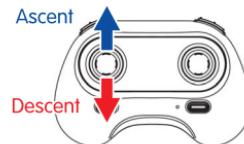
### Right Joystick

Forward

Backward

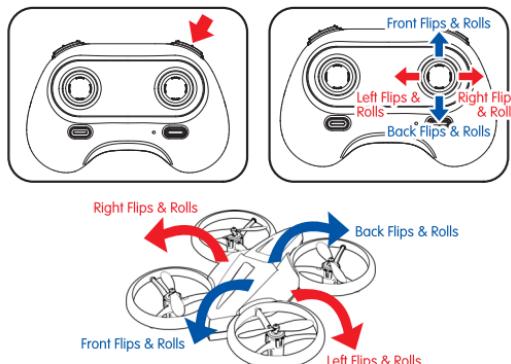
Left.Sideward

Right.Sideward

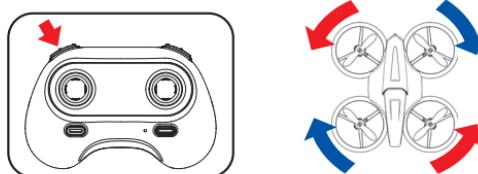


## FLIPS & ROLLS

The aircraft is able to finalize flips & rolls when it flies at the altitude of 2 meters. To finalize flips & rolls, short press the Flips & Rolls button on the remote controller, and the controller will deliver beeping sounds. Then toggle the right joystick towards certain direction to realize flips & rolls towards that direction. To exit Flip & Rolls, short press the button again, and the remote controller will deliver beeping sounds again to exit.



## QUICK SPIN



Long press the fast rotation button, the drone will rotate quickly, long press the fast rotation button or flip the right joystick, the aircraft will stop rotating. When the battery is low, the rotation function will be automatically turned off.

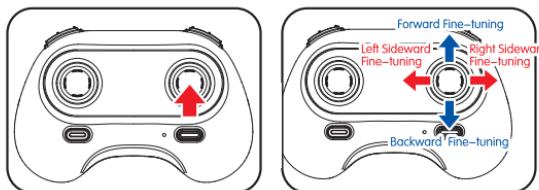
## HEADLESS MODE

The flight direction of drone is subjected to the direction of remote control.

1. When drone adjust the frequency, the drone is default as common mode. Then the indication light of drone is normally on. When you press the headless function key of remote control, the remote control beeps once and enters headless state. When you press the headless function key again, you listen to a long beep sound and the drone exits the headless mode.
2. In the headless state, operator doesn't need to identify the direction of nose, but control the drone according to the operating lever of remote control.

## FINE-TUNING

When the aircraft spins or yaws in the air, please use the fine-tuning function to trim the direction. Toggle the right joystick; when you hear the beeping sound, press the fine-tuning button which indicates the opposite direction to trim the direction until the aircraft stays oriented.



### Notes:

When the drone is flying at altitude 30cm (about 1 feet) or lower height, its flying will be influenced by the vortex generated from propellers and appears to be unstable, which is a normal situation named Wing-In-Ground effect. The lower the drone flies, the greater influence will be made.

## KEEP CALM AND SOLVE THE PROBLEMS

Problems	Causes	Solutions
Controller not energized.	Batteries not correctly installed.	Correctly install the batteries for the controller.
Fail to pair.	1. Low battery for the controller.	1. Replace with new batteries.
	2. Low battery for the aircraft.	2. Recharge the battery or replace with new batteries.
	3. Improper operation for pairing.	3. Turn off the aircraft and the controller, and refer to Page 8 of the user manual to pair the controller with the aircraft.
Aircraft yaws.	1. Gyro not calibrated.	1. Refer to Page 8 to calibrate the gyro.
	2. Aircraft not fine-tuned.	2. Refer to the "Fine-tuning" section on Page 11 to fine-tune the aircraft.
Battery not charging.	1. Charging cable malfunction.	1. Replace with a new charging cable (Use a adapter with input of c 5V=0.5–1.5A instead of a quick charger).
	2. Battery malfunction.	2. Replace with new batteries (Use original battery instead of self-prepared battery, which may cause damage to the aircraft).
Motor cannot spin.	1. Motor cable disconnected.	1. Refit the aircraft's upper cover and check if the interior line is disconnected. If so, please reconnect it.
	2. Motor damaged.	2. Replace with a new motor or deliver the aircraft to the factory for repair.

FCC Warning:

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.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

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

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

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 0cm between the radiator and your body.