

# User Guide

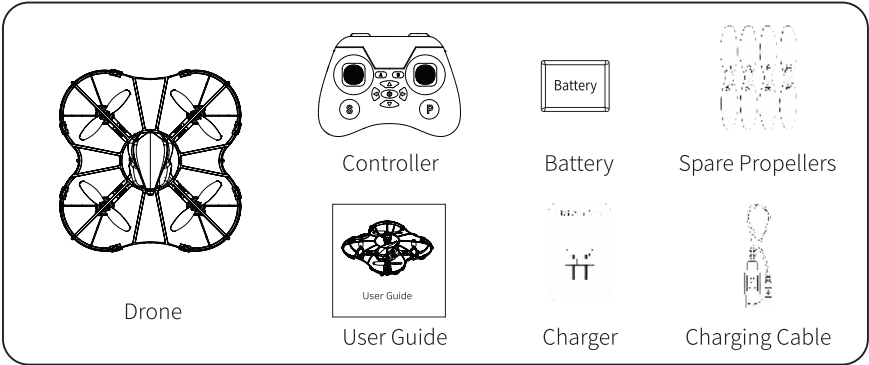


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# 1. Components and product specifications



Drone

Controller

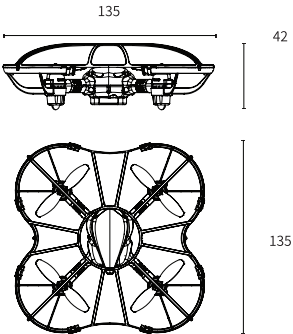
Battery

Spare Propellers

User Guide

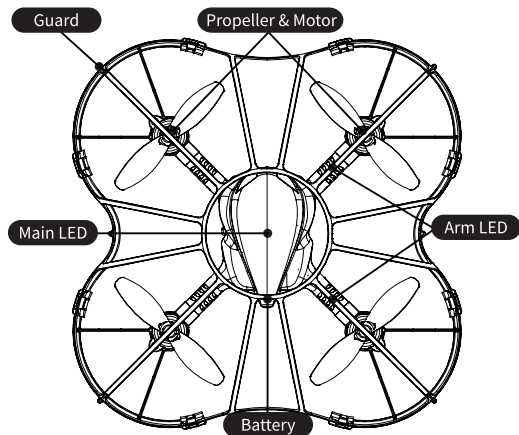
Charger

Charging Cable

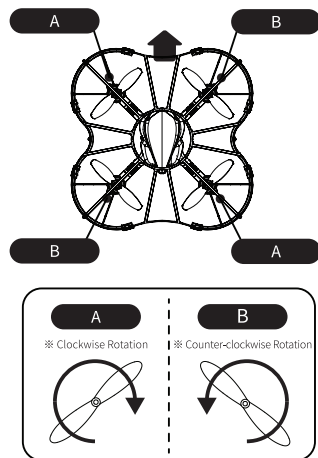


Dimensions	135 x 135 x 42 (mm)
Weight	38g (Battery Included)
Battery	3.7V 300mAh 20C
Flight time	Approximately 5~6 min
Charging time	Approximately 40min
Communication Methods	2.4GHz RF Two-way communication
Communication distance	Up to 100 meters / recommended 50 meters (may vary depending on environment)
Built-in sensors	6-axis inertial sensors, vision sensors (X,Y,Z)

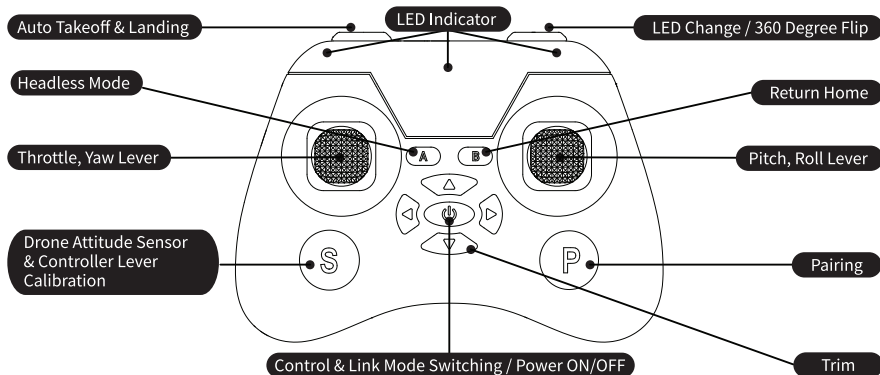
## 2. Part Names



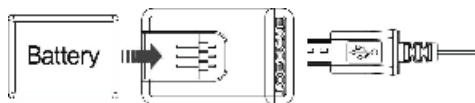
## ※ Propeller Configuration



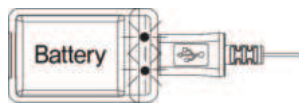
## 3. Controller Description



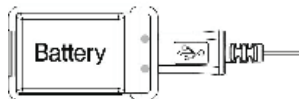
## 4. Charging Battery



Connecting Cables & Inserting Batteries



Charging

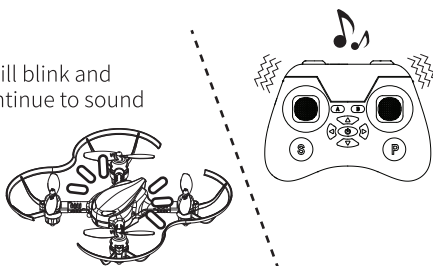


Charging Complete

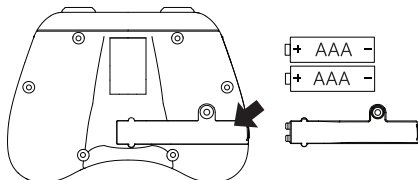
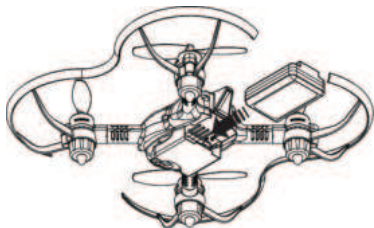
### ※ What if the battery runs out?

When the battery is low, the drone's main LED will blink and the controller will vibrate and the buzzer will continue to sound (same for the controller battery).

If you have a low battery notification, immediately land the drone in a safe place and replace it with a fully charged battery. Continued flight with a discharged battery can affect battery life.



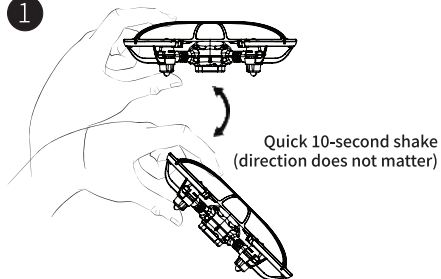
## 5. Inserting a drone/controller battery



※ Batteries not included

## 6. Reset & Pairing

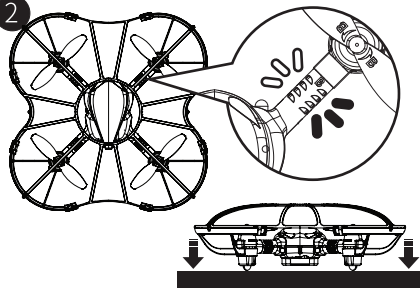
1



After inserting the battery into the drone, hold the body of the drone with your hand and shake it from side to side at least 10 times.

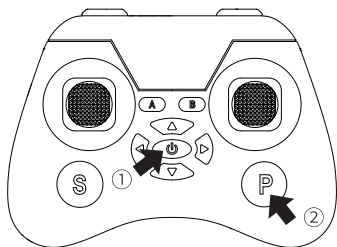
※ This must be done within 20 seconds of installing the battery.

2



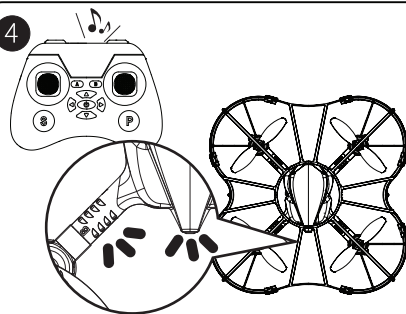
When the drone's arm LEDs are flashing alternately red and blue, place the drone on a flat surface.

3



After powering on the controller (①), press and hold the P button (pairing button) for at least 3 seconds (②).

4

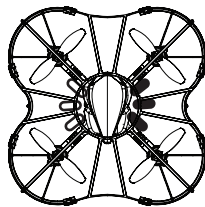
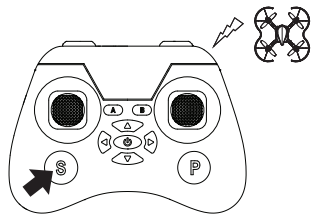


If the controller beeps and the drone's arm LEDs and rear LED (green) light up, the pairing is successful.



## 7. Calibrating the Position Sensor

- ※ The attitude sensor is the sensor that allows the drone to fly in the correct orientation without tilting. If your drone is not flying in the correct orientation or is tilting, perform an attitude sensor calibration to compensate for the sensor.

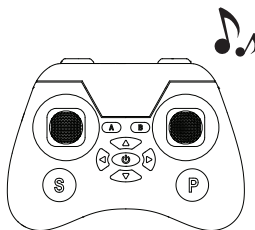
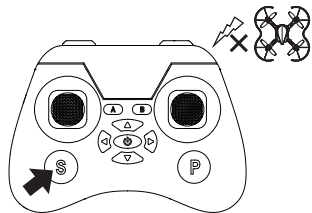


**With the drone and controller paired,** press and hold the S button (calibration button) on the controller for at least 3 seconds.

If the controller beeps and the drone's main LED blinks and then lights up, the calibration is successful.

## 8. Calibrating the Controller Levers

- ※ The controller lever calibration is to calibrate the left and right levers of the controller. If the drone's behavior is not consistent with the movement of the levers when you fly the drone, perform the controller lever calibration.



Press and hold the S button (calibration button) on the controller for at least 3 seconds **while the drone and controller are unpaired** (= battery is removed from the drone).

If the controller beeps once or twice, the calibration is successful.

## 9. Takeoff & Landing

※ Piloting mode is based on Mode 2

### Automatic Takeoff & Landing



Press and hold the L button (Auto Takeoff/Landing) on the upper left side of the controller for at least 3 seconds.

- ▶ When in landing mode: **Auto Takeoff**
- ▶ For flight status: **Auto Landing**

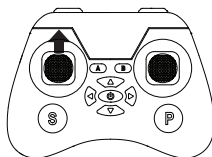
### Manual Takeoff & Landing



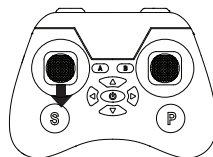
or



In the landing state, move both levers simultaneously as above and hold for about 2 seconds.



When the propellers are spinning at a slow speed, raise the left lever to take off.



Lower the left lever during flight to land (hold the lever until the drone's propellers come to a complete stop)

## 10. Emergency Stop



※ In case of an emergency during flight, you can use the emergency stop function to stop the drone's motor. However, if you use this function when the drone is in the air, it may cause the drone to crash, resulting in an accident and damage, so be careful and use it only in an emergency.

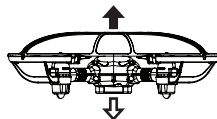
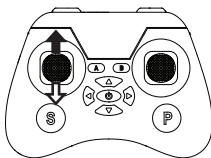
Press the top-left button while lowering the left lever

## 11. Basic Flight

※ Piloting mode is based on Mode 2

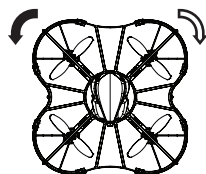
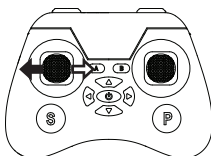
### Ascend/Descend

Move the left lever on the controller up to ascend the drone, and down to descend. This is the same as the lever operation for takeoff and landing.



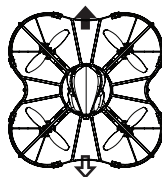
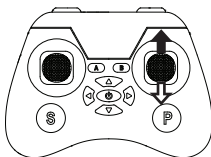
### Left/Right Turns

Move the left lever on the controller to the left to turn the drone left, and to the right to turn it right.



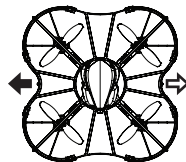
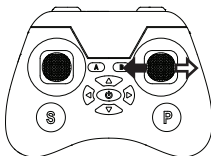
### Forward/Reverse

Move the right lever on the controller up to move the drone forward, and down to move it backward.



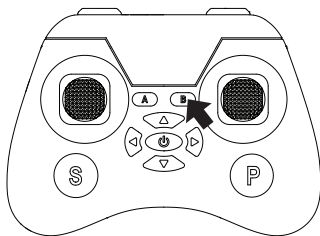
### Left/Right Movement

Move the right lever on the controller to the left to move the drone left, and to the right to move it right.



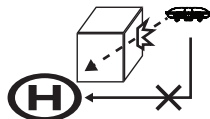
## 12. Key features

### 12-1. Return Home

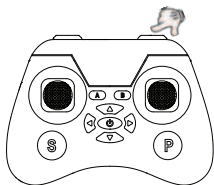


Press and hold the B button (Return Home button) between the levers on either side of the controller once (for more than 2 seconds) to activate the function.

※ The Return Home function will return you to the position where you first landed during flight in the closest straight line distance. If there is an obstacle between the takeoff position and the current flight position, it may collide and cause damage to the drone and the obstacle.



### 12-2. Changing LEDs

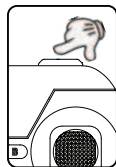


You can change the color of the drone's LEDs by briefly pressing the R button (LED/360 degree flip button) on the top right of the controller once.

[LED color sequence]

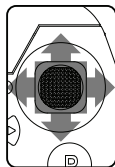
► White → Rainbow → Red → Green → Blue → Aqua → Pink → Yellow

### 12-3. 360 Degree Flip

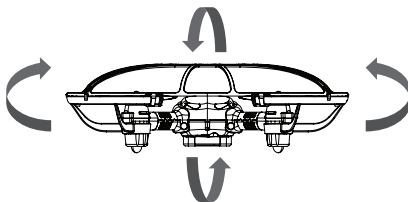


Press and Hold

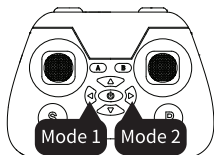
+



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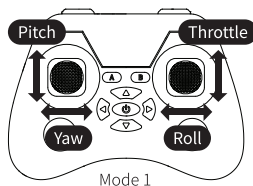
## 12-4. Change Control Mode



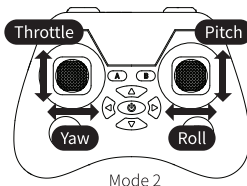
Press and hold the Trim button for at least 3 seconds during landing.

◀ Button (1 buzzer): Mode 1

▶ Button (2 beeps): Mode 2



Mode 1

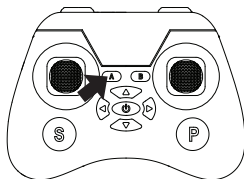


Mode 2

Throttle: Climb & Descend  
Yaw: Turn Left & Right  
Pitch: Forward & Backward  
Roll: Move left & right

※ The default setting is Mode 2

## 12-5. Headless Mode



Press and hold for 3+ seconds

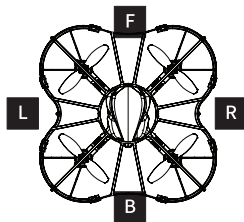
When the drone is landed, press and hold the A button (headless mode button) between the levers on both sides of the controller for more than 3 seconds to set the drone to headless mode.

▶ 2 beeps : Headless mode is set

▶ 1 buzzer: Headless mode off

※ Headless mode: Flight direction is fixed to the direction of the drone's landing.

※ The LEDs on the side LED indicators on both sides of the controller will blink when in headless mode.



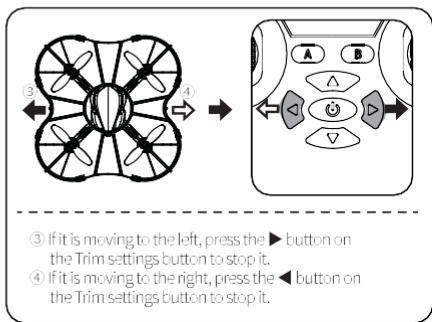
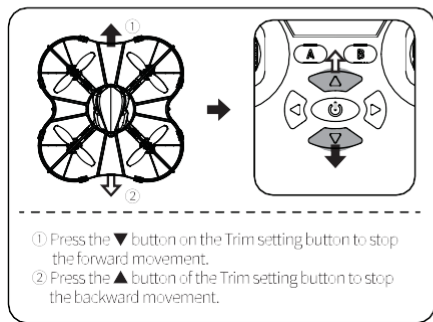
### Heading Reset

**While the drone is in headless mode, a short press of the A button** (Heading Reset button) between the levers on either side of the controller will reset the drone's heading as shown in the figure to the left. If the drone lands and then takes off again, the heading will be reset to the direction of the drone's landing.

※ Heading Reset only works when neither lever on the controller is operated.

## 12-6. Trim Setting

- ※ When the drone is in flight and moves in a certain direction without any control, use the "Trim Setting" button on the controller to control the flow.
- ※ The controller beeps each time the Trim Set button is pressed, and stops beeping when the trim setting reaches its maximum.



Except for initial defects, any other use, negligence and damage will result in a chargeable repair.

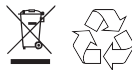
## 13. Precaution & Maintenance

- Do not tamper with the structure of this product.
- Recycle the battery or battery pack or dispose of it properly in accordance with waste disposal laws.
- Do not throw or drop the product.
- Read and understand the product manual carefully.
- If the product is disassembled by the user, it may not be eligible for normal product warranty service.

## 14. Warranty

Except for initial defects, any other use, negligence and damage will result in a chargeable repair.

Other detailed product repairs and support are subject to the terms and conditions of sale of the dealer. Please contact the dealer for more information.



## **FCC Information to User**

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 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**

Modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

**FCC Compliance Information :** 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



