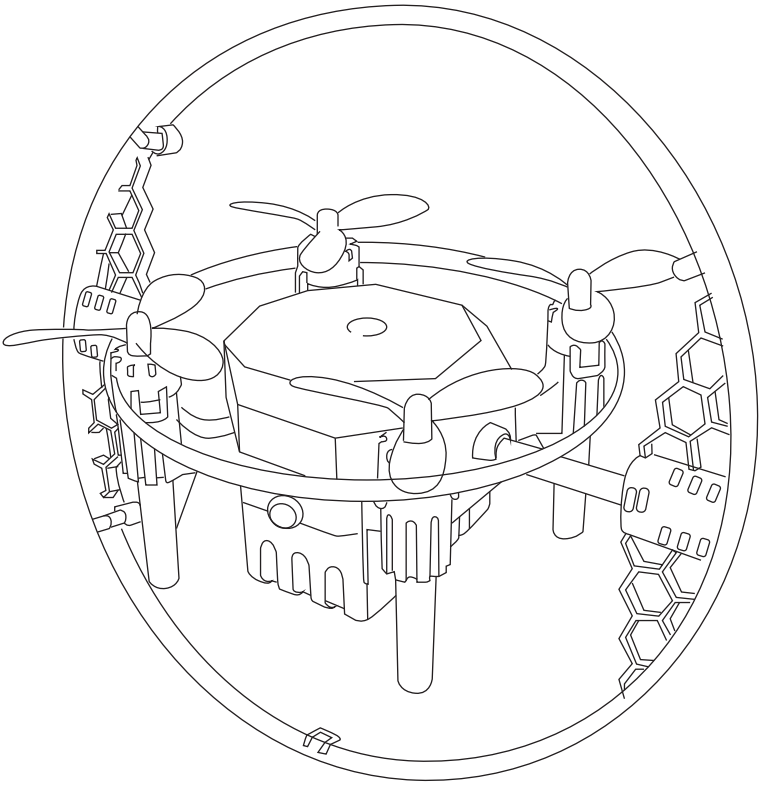
Ages
8+

AURORA BALL FX-41

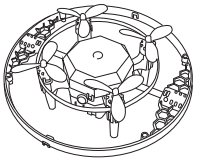
INSTRUCTION MANUAL



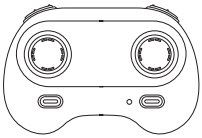
- One-Key Vertical Orbital Running
- One-Key TORNADO Spinning. (360° rotation)
- One-Key TORNADO Spinning with Orbital Running
- One key Shift to Vertical LED Ring
- Stick type trimming

Please read the instructions carefully before use and keep them properly for future reference.

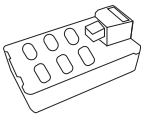
1 Part list



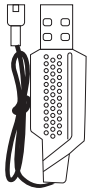
Drone x 1



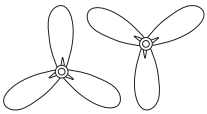
Remote control x 1



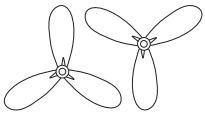
Battery x 1



USB charging cable x 1



Blade A x 2



Blade B x 2

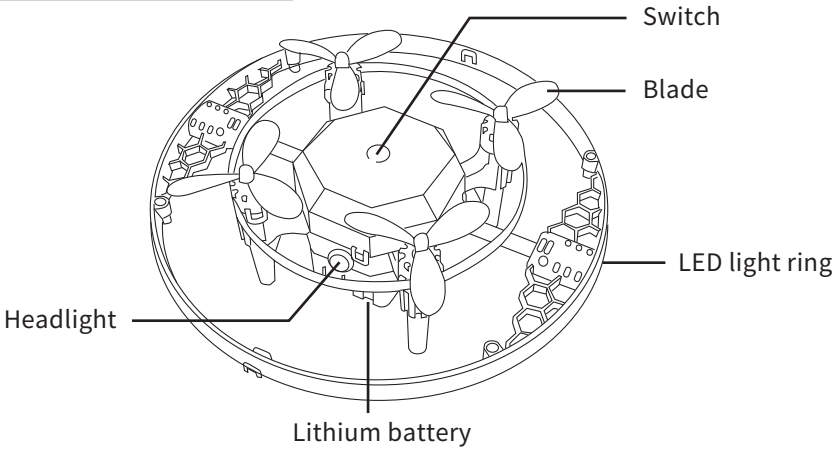
Instructions x 1

Product specifications

Product specifications			
Drone dimensions:	11x11x5cm	Motor:	716 cord motor
Drone weight:	50g	Battery:	3.7V 350mAh
Flight distance:	30m	Charging time:	60-80 minutes
Remote control distance:	30m	Flying time:	5-6 minutes

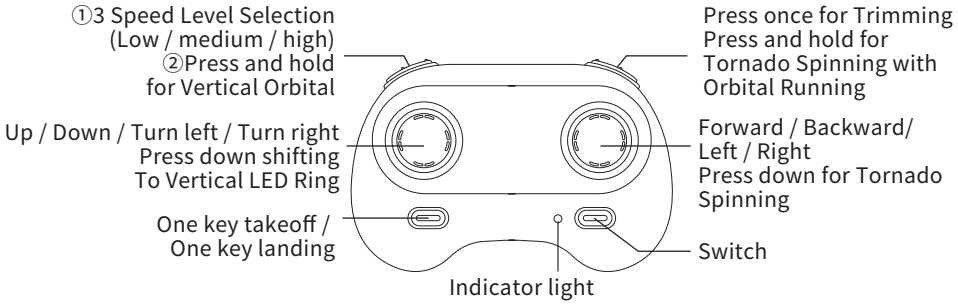
2 Drone introduction

Drone parts introduction

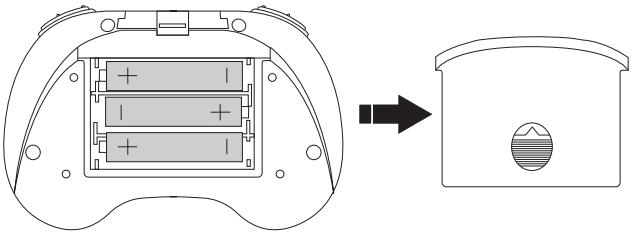


3 Remote control

3.1 Rremote control functions



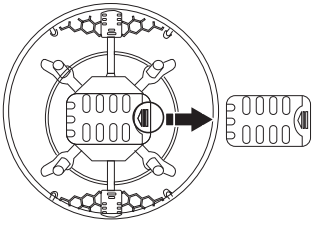
3.2 Remote control batteries installation



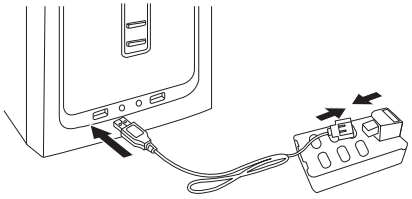
How to install the battery: Open the battery cover on the back of the remote control, and correctly install the 3 pieces of AAA alkaline batteries according to the electrode instructions on the battery box. (Battery not included)

4 Lithium battery charging instruction

4.1 Charging with the USB charging cable



1. Press and pull to take out the battery.



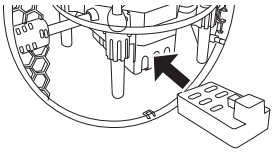
2. Plug USB into power source and then into the drone. Red indicator will light while charging. Red light will shut off after fully charged.

★★Charging time is about 60-80 minutes and flight time is more than 5-6 minutes.

5 Operating Instructions

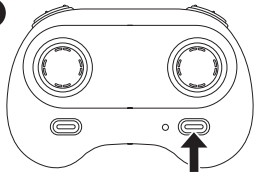
5.1 Boot program

❶



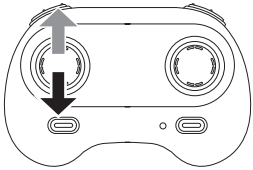
1. Insert the battery into the battery compartment firstly, then turn on the power switch (the drone's LED light flashes), and put the drone on a solid surface.

❷



2. Press on the power switch of the remote controller (the remote controller makes a "beep" sound, the remote control indicator light Red and flashes, and the drone LED lights flash, too).

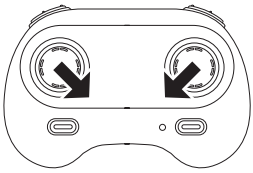
❸



3.2.4Ghz frequency matching between controller and drone

Push up the left joystick (controlerl makes a beep, controller indicator light 1 flashes red, and drone LED lights flash) and then push it down (the controlerl makes a "beep"sound, the controller indicator light turns solid red), that means 2.4Ghz frequency signal is matched between drone and controller.

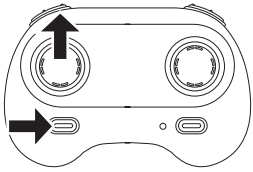
❹



4. Gyroscope calibration

Push the left and right joysticks as per above picture at the same time and release them at the same time. The drone blades will rotate at a low speed. The LED lights on the drone will stop flashing and become solid, means successful calibration and the motors will start.

❺



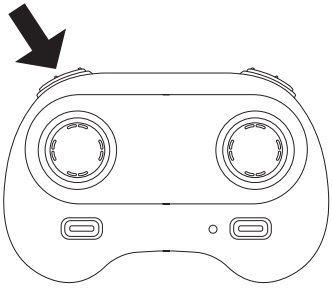
5. Push the left joystick upward or press the one-key takeoff button; the drone taking off.

★★Before taking off, please be sure to put the drone on a horizontal surface and calibrate it to ensure that the drone flies smoothly after takeoff.

★★When the drone is hit or deflected after a collision during flight,the same method can be used to correct the gyroscope.

6 Operation and control

6.1 Speed Selection

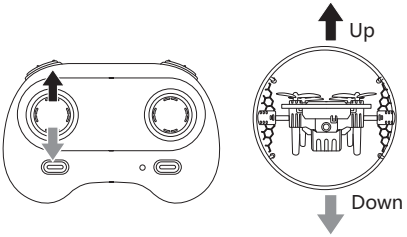


Press the upper left button to select different speed. Each time it is pressed, the Drone will switch to a corresponding speed (as shown on the right) with indication "beep" sound.

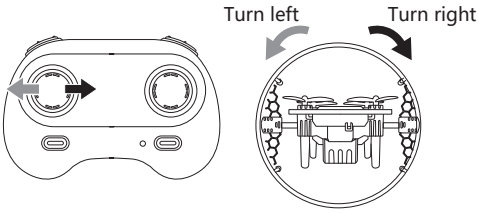
1. One beep is low-speed speed control, the drone is controlled at a speed of 30% of full speed.
2. Two beeps are for medium speed control, the drone is controlled at a speed of 60% of full speed.
3. Three beeps are for high speed control, the drone is controlled at a speed of 100% of full speed.

6.2 Basic action operation methods

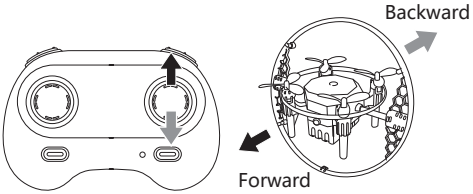
For beginners, it is recommended to operate the joystick slowly to avoid damaging the drone due to excessive movements.



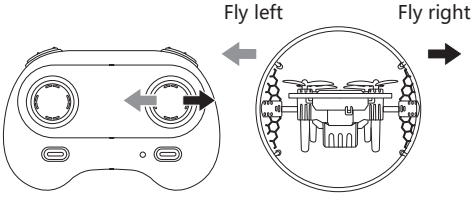
When the left joystick (throttle) is pushed up or down, the aircraft will fly up or down accordingly.



When the left joystick (throttle) is pushed left or right, the aircraft will turnleft or right accordingly.

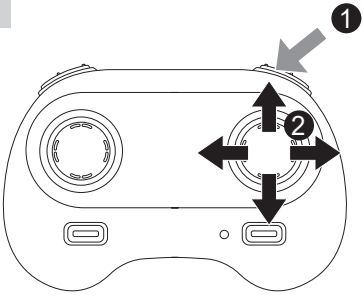


When the right joystick (direction) is pushed up or down, the drone will move forward or backward accordingly.



When the right joystick (direction) is pushed left or right, the drone will fly left or right accordingly.

6.3 Trimming



Press the button on the upper right corner of the remote control. The remote control will make two beeps and enter the trimming mode.

★When the drone deviates forward, move the right joystick backward (the remote control indicator light 1 flashes red)

★When the aircraft deviates backward, move the right joystick forward (the remote control indicator light 1 flashes red)

★When the aircraft deviates to the left, move the right joystick to the right (the remote control indicator light 1 flashes red)

★When the aircraft deviates to the right, move the right joystick to the left (the remote control indicator light 1 flashes red)

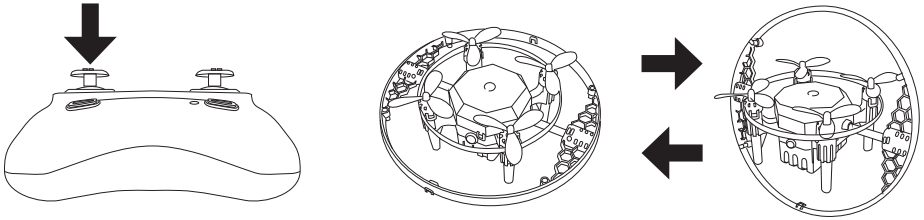
★After the drone offset adjustment is completed, you can press the button on the upper right corner of the remote control again. The remote control will make a "beep" to exit the trimming mode, or if you do not move the right joystick for 1 second, the trimming mode will automatically exit.

7 How to operate stunts

Tip: The following stunt actions can only be performed when the Drone is at least 1 meter above the ground!

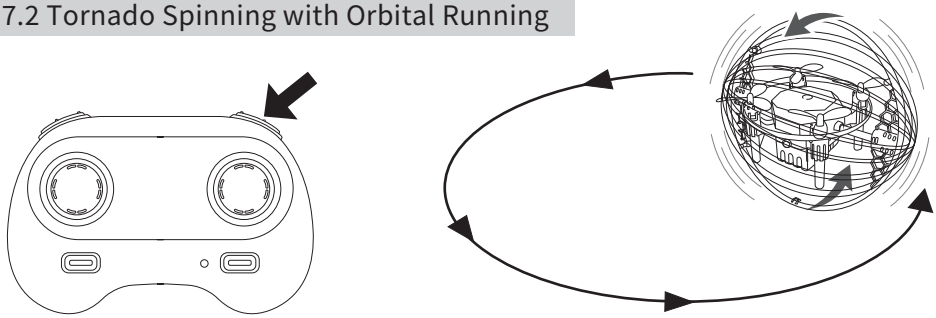
7.1 One key Shifting to Vertical LED Ring

For beginners, it is recommended to operate the joystick slowly to avoid damaging the aircraft due to excessive movements.



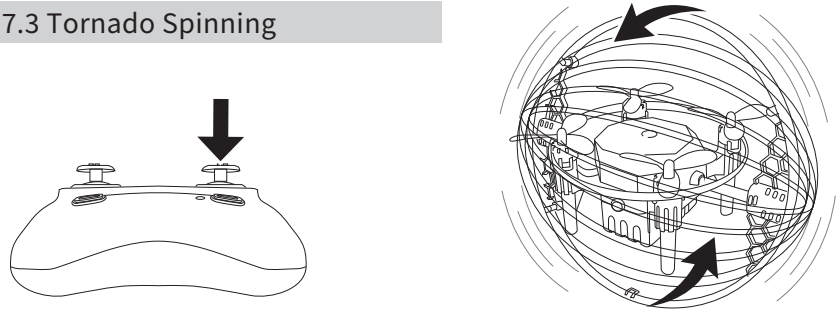
During flight, when press down the left joystick vertically, the controller will make a "beep" sound, and the drone's LED ring will rotate from the horizontal to the vertical; press this joystick again, and the drone's LED ring will rotate from the vertical back to horizontal.

7.2 Tornado Spinning with Orbital Running



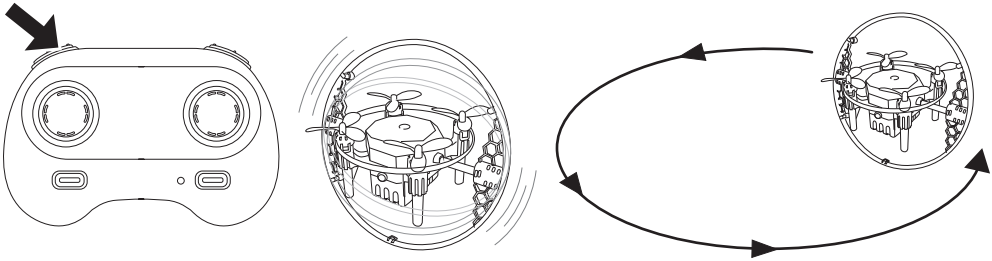
During flight, when you press and hold the button on the top right corner of controller, the controller will make a "beep" sound. The drone LED ring will be 360° tornado spinning with orbital running.

7.3 Tornado Spinning



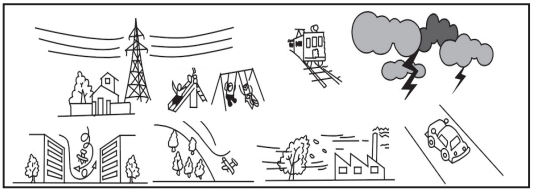
During flight, when you press down the right joystick , the controller will make a "beep" sound, the drone's LED ring will start 360° spinning.

7.4 Vertical Orbital Running



During the flight, press and hold the button on the upper left corner of the controller. The controller makes a"beep" sound, the drone's LED ring will rotate from the horizontal to the vertica and orbital running.
Push "UP/DOWN" button to adjust drone's flying height.
When you press and hold the button in the upper left corner of the remote control again, the remote control makes a beep and the drone will be back to horizonal.

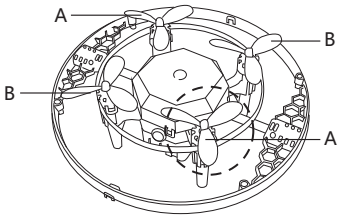
8 Flight environment

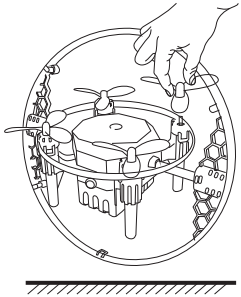


Avoid accidental injury or damage to the drone caused by flying the drone in these environments.

9 Blade installation

When the drone blades are damaged or deformed, consumers can take out the delivered blades from the accessory package and replace them.
★There are position requirements for the installation of the drone's blades. The letters engraved on the blades must correspond to the letters engraved on the drone frame. That is, "A" corresponds to "A" and "B" corresponds to "B", otherwise the aircraft cannot take off normally.





Installation of the blade: Hold the cap of the blade, align it with the motor shaft, and press it into place. Note that the blades cannot be deformed.

10 Troubleshooting

Question	Reason	Solution
The drone is not responding	1. Code matching failed 2. The battery of the drone or remote control is low	1. Re-bind the code 2. Replace the remote control battery 3. Recharge the drone
Unable to take off	1. The blades are assembled incorrectly 2. The blades are deformed after impact 3. The drone LED light flashes	1. Refer to the blade installation section of the manual 2. Straighten the blades, or replace the blades 3. Low battery protection, recharge the drone
Aircraft shake	1. The blades are deformed after impact 2. The gyroscope is deflected	1. Straighten the blades. Or replace the blades 2. Check the gyroscope calibration section of the manual.
The drone delayed reaction & signals interrupted	Remote control battery is low	Replace remote control batteries
Unable Hovering	1. The drone was not placed on a horizontal surface during code alignment. 2. The fine tuning of the remote controller was not reset.	1. Re-bind the code 2. Reset the remote control

Warning:
Please read the instructions carefully before using this product and keep them properly for future reference. Our company and the seller are not responsible for any losses or personal injuries
caused by improper operation or improper use of this product.

--- Thank you for purchasing this product and wish you a pleasant experience! ---

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.

Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user’ s authority to operate the equipment.

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 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 and its antenna(s) must not be co-located or operation in conjunction with any other antenna or transmitter.

Radiation Exposure Statement
To maintain compliance with FCC’ s RF Exposure guidelines, This equipment should be installed and operated with minimum distance of 0cm from your body.