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X26LUM
Obstacle
Avoidance
Drone

REVOLT X26LUM Obstacle Avoidance Drone User Manual

Contents

REVOLT X26LUM Obstacle Avoidance Drone

FAQ

Q: Can I fly the drone at night?
A: Yes, the drone supports multicolor night flight for enhanced visibility in low-light conditions.

Q: How many preprogrammed stunts does the drone offer?
A: The drone offers 16 preprogrammed stunts including 360 flips and various flight maneuvers.

- Obstacle avoidance feature
- Easy to fly with 1 button take-off/landing and auto-hover
- 16 Preprogrammed stunts with 360 flips and flight manoeuvres
- Multicolour night flight

Accreditation standard: GB/T26701-2011

The materials, specifications, parts and packaging mentioned in this manual are for reference purposes only. We are not responsible for any changes made to this printed material, nor are we able to inform custom-ers of any updates or changes. Please refer to our website: R3VOLT.com for the latest information.

Important safety information

Thank you for purchasing this REVOLT item.To ensure that you operate the aircraft correctly, please read these instructions carefully before first use and store them in a safe place for future reference.
Safety Information:

Conditions to be observed when using ORBITZ LUMINA:

- The ORBITZ LUMINA Drone should be used with caution as skill is required to control the flight and avoid collisions with the user, objects, or third parties. Users should be aware of their surroundings and fly the drone responsibly.
- Keep the smaller-sized accessories out of reach of children.
- Children must be supervised by an adult when operating the aircraft. The aircraft should always remain within the line of sight of the pilot (or instructor).
- This aircraft can move quickly. When flying for the first time, push left joystick up slowly to prevent the aircraft from ascending too rapidly and causing damage or collisions.
- When the quadcopter is airborne, it should be kept at least 2-3m away from the pilot and other people to avoid the risk of a collision.
- Maintain a safe distance from the spinning propellers! Do not fly near the face. Do not touch the rotating propellers, avoid loose clothing or hair that can be caught in the propellers.
- In order to prevent interference with air traffic control systems, it is forbidden to use remote controls within a 5,000m radius of an airport runway (calculated from the centre of the runway). Always comply with remote control restriction orders issued by national authorities.Battery safety and maintenance:
- Do not recharge non-rechargeable batteries. When installing or changing the batteries, ensure that they are connected in the correct polarity. Do not mix old and new batteries or different types of batteries.
- Do not short circuit the battery terminals.
- You must only use the transformer included with ORBITZ LUMINA for charging the drone battery. The transformer is not part of the drone itself. Before cleaning the drone or battery, ensure the battery is first removed from the drone and disconnected from the transformer or charger.
- Regularly inspect the transformer wires, plug socket, outer casing, and other accessories for any signs of damage. If any damage is found, discontinue use immediately until the fault has been repaired.
- Do not store the battery in a hot environment (e.g. near open flames or a heating device).
- When the flight has ended, switch off the remote control before switching off the power on the aircraft.
- After use, ensure that the quadcopter and remote control are switched off and remove the batteries in the remote control.
- If you do not plan to use the quadcopter for at least 10 days, discharge the battery to 40%-50% (i.e. if the battery is fully charged, fly the quadcopter for half of the total flight time). This helps to prolong the lifespan of the battery.

Repair and maintenance

- Clean the drone with a clean, soft cloth.
- Avoid exposing the drone or battery to direct sunlight or heat.
- Do not submerge the drone or battery in water, as this may damage the electrical components.
- Regularly inspect the propellers, motor and battery. If there are any signs of damage, discontinue use immediately until the fault has been repaired.

About this product

Specifications

- **Aircraft**

- Weight Aircraft: Approx. 58 g
- Specifications: 140x130x48.5 mm
- Flight range: Approx. 20 m
- Flight time: Approx. 9 mins
- Motor: ø7
- Battery: 3.7 V, 700 mAh
- Battery Charging time: Approx. 80 min

- **Remote control:**
  - Operating frequency: 2.4 GHz
  - Operating temperature: 0°C to 40°C
- **Package contents**
  - Aircraft: 1
  - Remote control: 1
  - USB charging cable: 1
  - Spare propellers: 4(2 each "A" & "B")
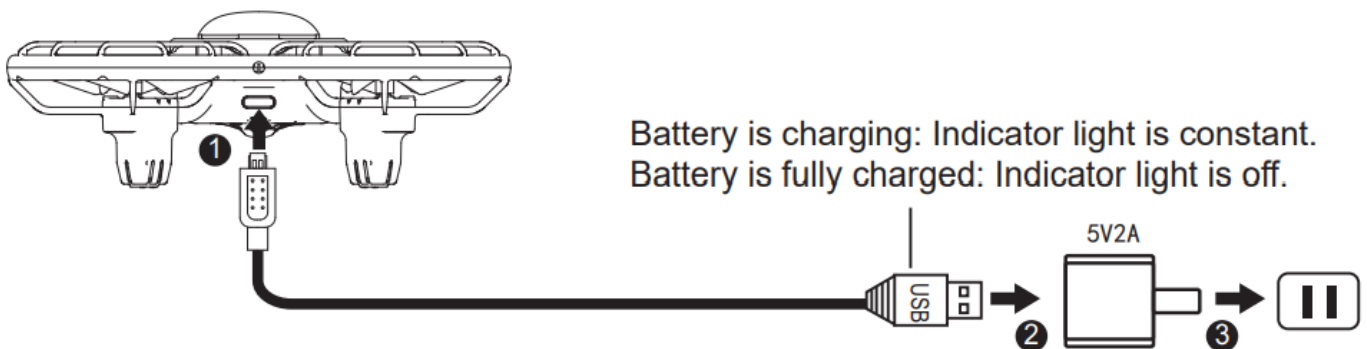 - User manual: 1

Aircraft components
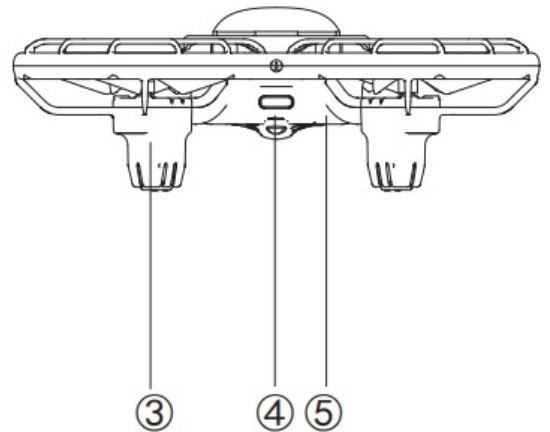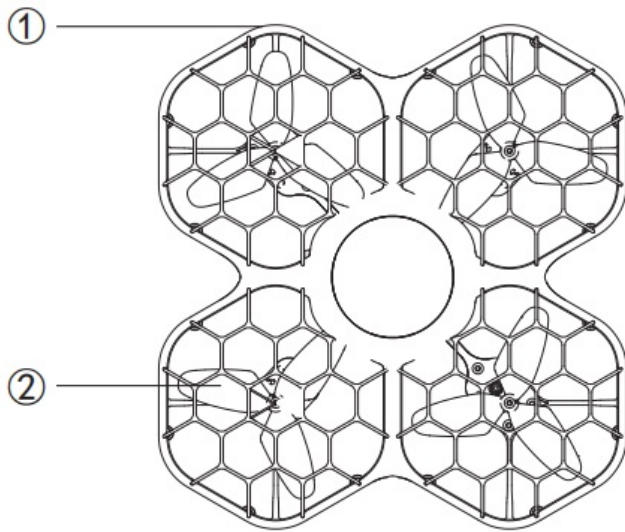
1. Fuselage
2. Propellers
3. Motor
4. Charging port
5. Power switch

Remote control components
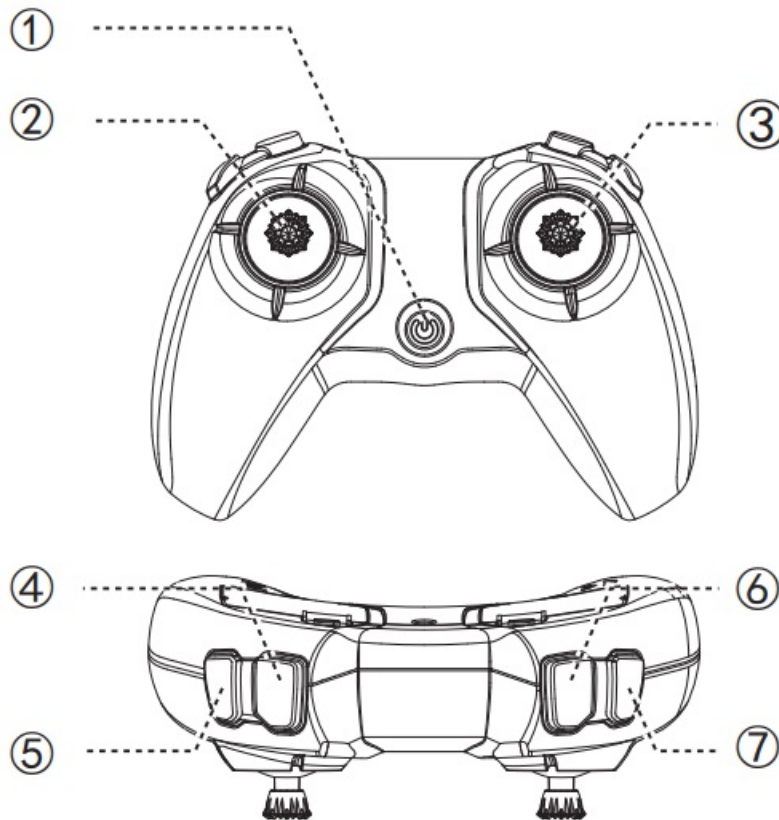
1. Power switch
2. Left joystick (short press to change the light effects; press and hold for trimming adjustments and release when finished; to clear trimming settings, press and hold simultaneously with the power button)
3. Right joystick (short press to toggle between high and low speed mode)
4. Rotate button
5. Spin button
6. Flip button
7. One-touch take-off/landing

Charging the aircraft battery

Battery is charging: Indicator light is constant.
Battery is fully charged: Indicator light is off.

5V2A

- Charge the quadcopter with the USB charging cable that came with the product.
- Using adapters with a lower rated current will result in a longer charging time.
- The toy is only to be connected to Class II equipment bearing the symbol
- Do not short circuit or compress the battery, as this may cause an explosion.
- Do not disassembling the battery or store it in a hot environment.

- If you do not plan to use the aircraft for at least 10 days, discharge the battery to 40%-50%. This helps to prolong the lifespan of the battery.
- Rechargeable batteries should be removed from the aircraft before charging charged.
- Rechargeable batteries should only be charged under the supervision of adults.and keep away from flammable materials.
- Exhausted batteries should be removed from the aircraft.
- Caution: Risk of explosion if battery is replaced with incorrect ones, please install the batteries according to the instructions.

Inserting the remote control batteries


Battery cover
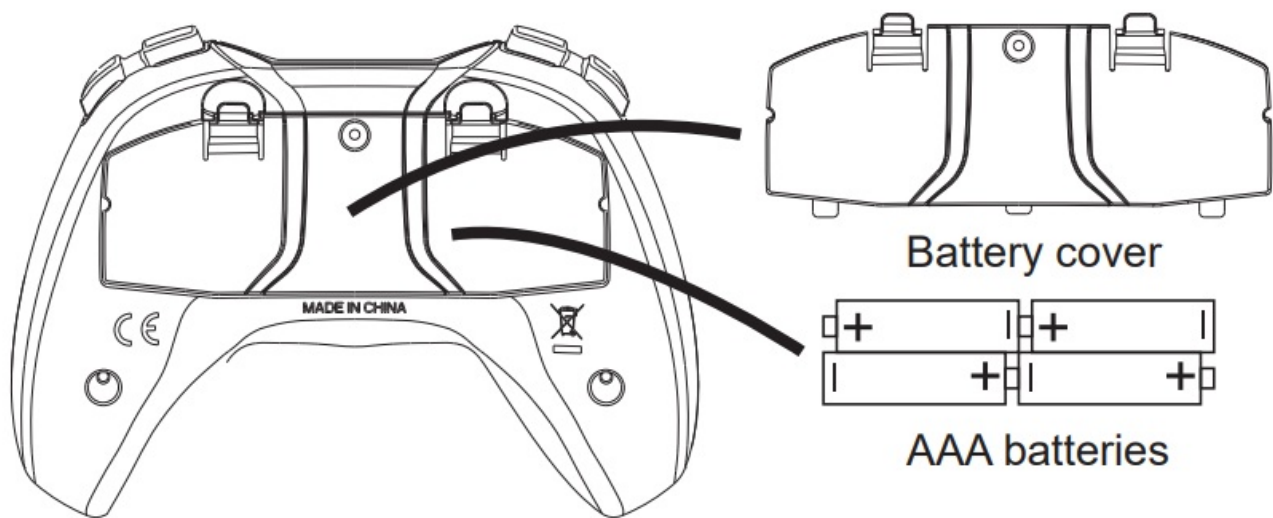
AAA batteries

To insert the controller batteries, open the battery cover on the back of the remote control and insert 4 x AAA alkaline batteries, ensuring that you observe the polarity markings (batteries are not included and must be purchased separately).

1. When installing the batteries, ensure that you match the + and – ends of the battery with the + and – signs inside the battery compartment.
2. Do not mix old and new batteries.
3. Do not mix different types of batteries

Flight preparation, Taking off and Landing
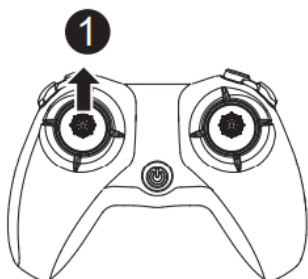
Pairing the remote control with the aircraft
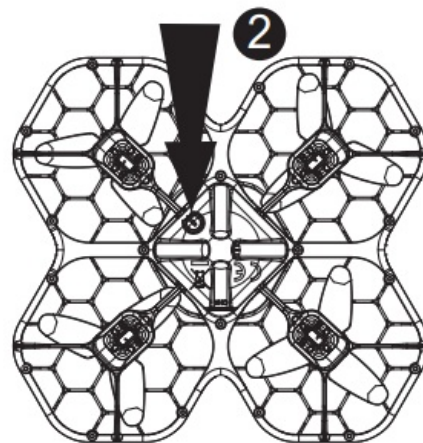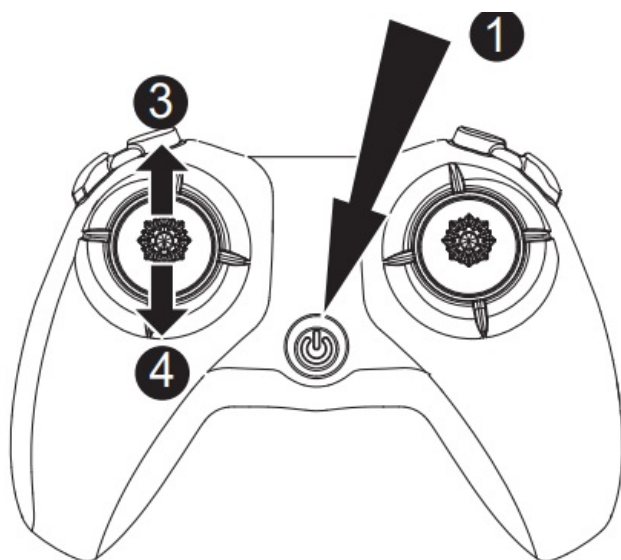
1. Press the power botton on the remote control.
2. Press the power botton on the quadcopter.
3. Move the left joystick up to the highest point.
4. Move the left joystick down to the lowest point.

After moving the left joystick up and down, the lights on the drone willl stop flashing. When the lights stop flashing, the drone and remote control are paired.

Taking Off / Starting Flight
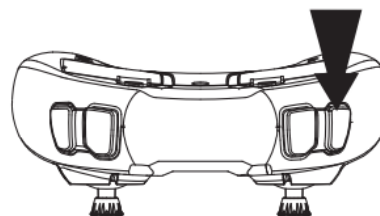

Method one:

Push to the top and then return to the central position

Method two:

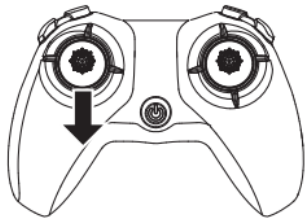Pull the joysticks in a "V" shape towards the button

Method three:

Press this button for auto-take-off

Note

1. If the aircraft is flown out of range from the remote control, the aircraft indicator lights will start to flash and the aircraft will land.
2. If the remote control suddenly turns off or runs out of power during flight, the aircraft will automatically land. If the remote control is turned back on during this process, you will be able to regain control of the drone.
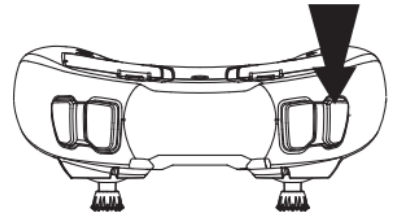
Landing / Ending Flight

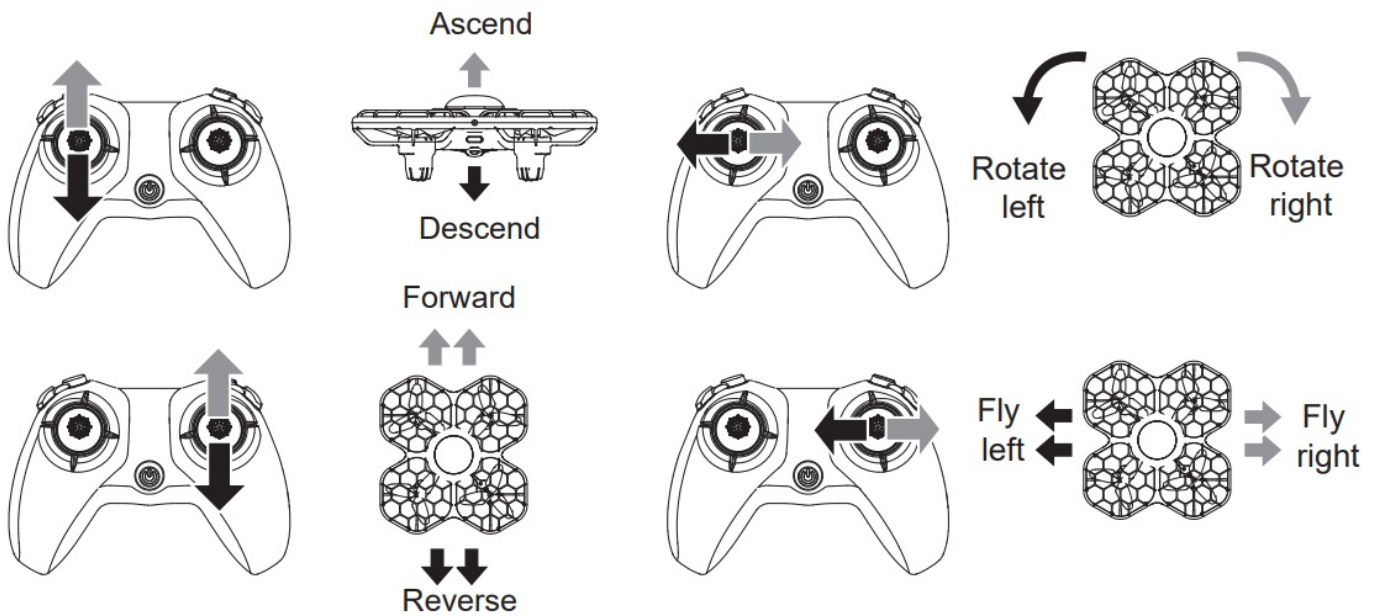| Method one:	Method two:	Method three:
Pull to the bottom for 2-3 seconds	Pull the joysticks in Press the ascend/seconds a "V" shape towards the button	Press this button for auto-landing

Using the remote control

Ascend

Descend

Forward

Reverse

Rotate left
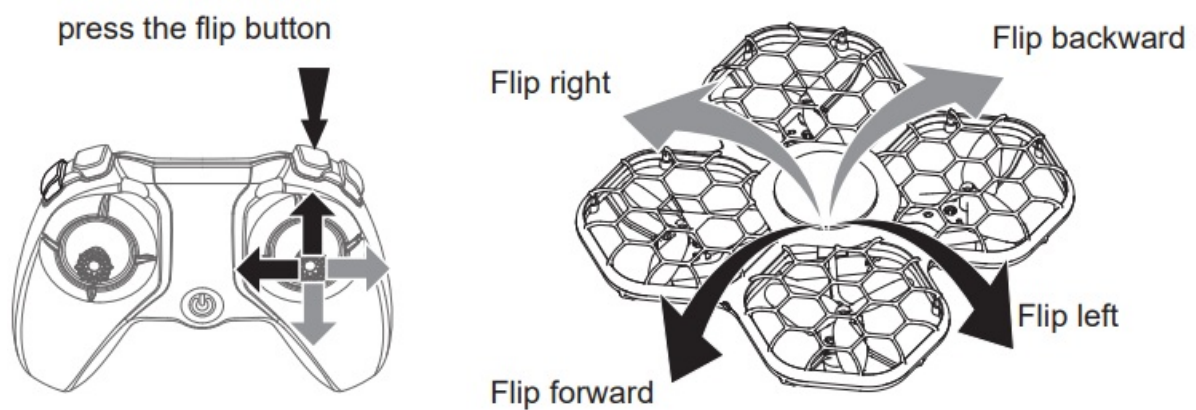
Rotate right

Fly left

Fly right

Trimming

- If the aircraft drifts forwards or backwards when it is hovering, press the left joystick in and push the right joystick down/up until the aircraft stops drifting.
- If the aircraft drifts to the left or right when it is hovering, press the left joystick in and push the right joystick right/left until the aircraft stops drifting.
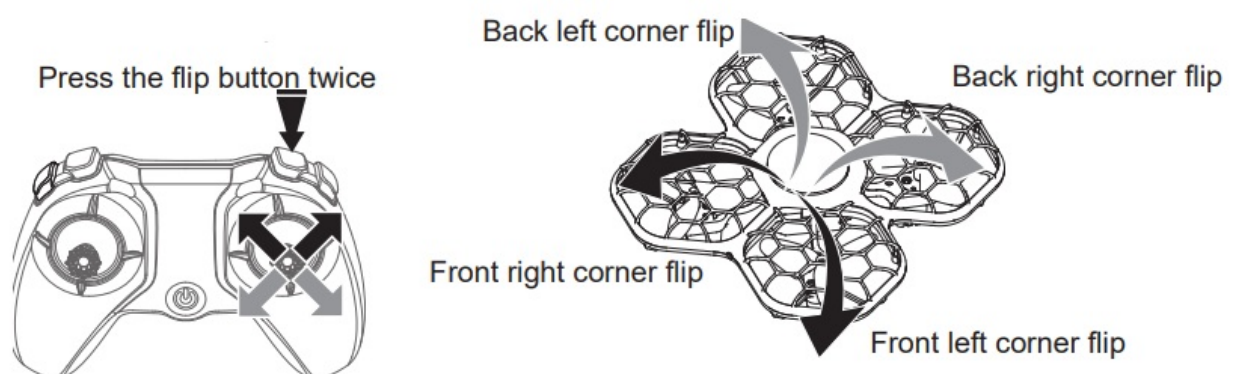
Trimming forwards
and backwards

Trimming left
and right
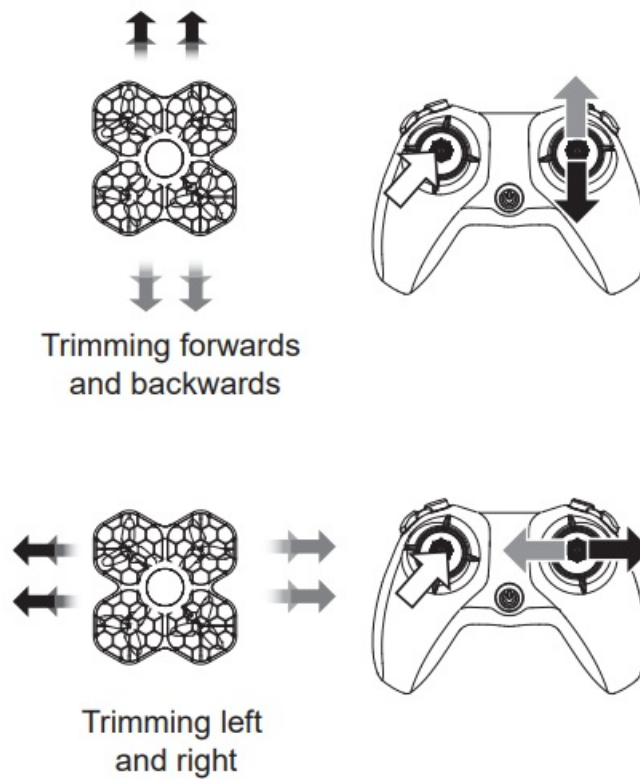
Stunt manoeuvres

Foward and backward \ left and right side flips

press the flip button

Flip right

Flip backward

Flip forward

Flip left

Press the flip button on the remote control, push the right joystick forward, backward or left, right, and the aircraft will flip in the corresponding direction.

Diagonal flips

Press the flip button twice

Back left corner flip

Back right corner flip

Front right corner flip

Front left corner flip

Press the flip button on the remote control twice, push the right joystick to the upper left, upper right, lower left, and lower right, and the aircraft will flip in the corresponding direction.

Spin In Place

Pess the Rotate button

Right rotation
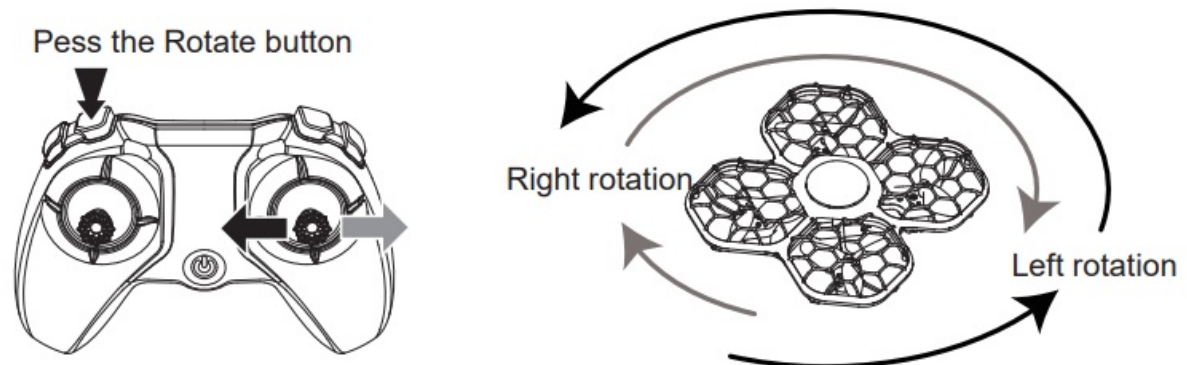
Left rotation

Press the rotation button on the remote control, push the right joystick to the left or right, and the aircraft will rotate in the corresponding direction

Ascending and descending corkscrew flight.

Pess the Rotate button twice

Corkscrew flight up

Right-handed spin

Left-handed spin
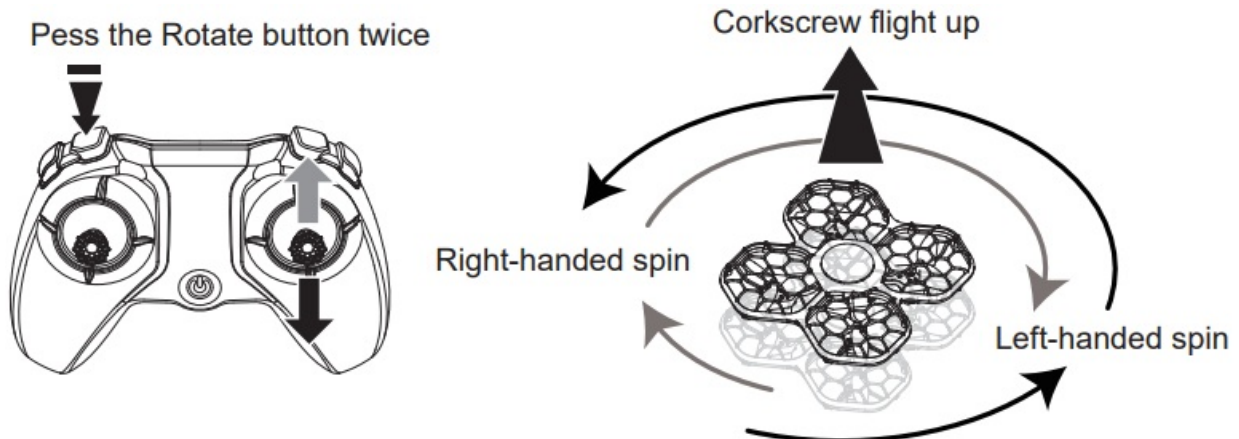
Press the rotate button on the remote control twice and move the right joystick upward. The aircraft will rotate left and rise upward before descending;
Press the rotate button on the remote control twice and move the right joystick downward. The aircraft will rotate right and rise upward before descending.
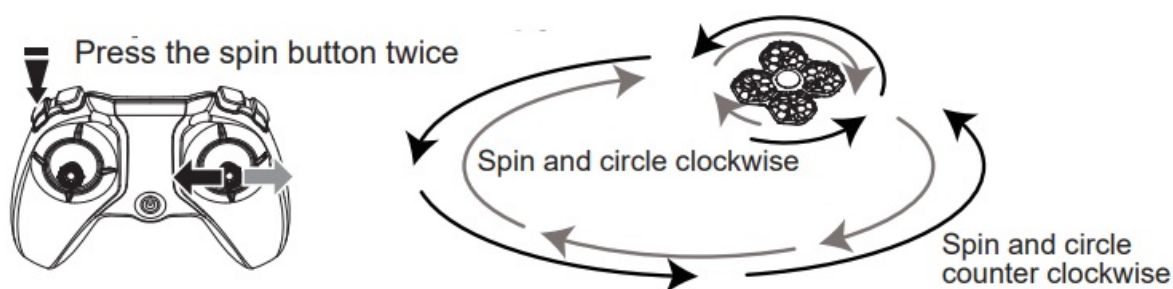
Horizontal loop flight pattern
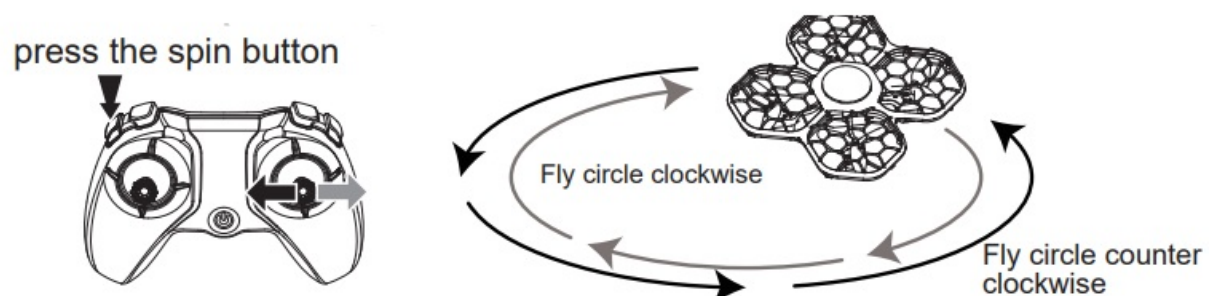
press the spin button

Fly circle clockwise

Fly circle counter clockwise

Press the spin button on the remote control, push the right joystick to the left or right, and the aircraft will fly a circle
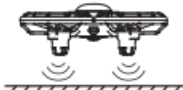
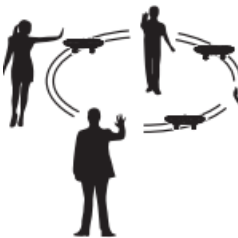in the corresponding direction.

360 Degree spin with horizontal loop

Press the spin button twice

Spin and circle clockwise

Spin and circle counter clockwise

Press the spin button on the remote control twice , push the right joystick to the left or right, and the aircraft will rotate and circle in the corresponding direction.

Function Introduction

Low-Voltage Protection:
When the four indicator lights at the bottom of the drone start flashing, it means drone's battery power is low. When this happens, bring the aircraft back to land.

Overcurrent protection
If the aircraft's blades collide with another object or become stuck, the aircraft's circuit will engage the overcurrent protection mechanism.

Level calibration

Place the aircraft on a level surface and move the left and right joysticks to the lower right corner for approximately 3 seconds. The indicator will flash rapidly and then stay constant to indicate that the calibration process is complete.

High/low speed mode

Briefly press the right joystick to switch between high and low speed mode.
1. Low speed mode is enabled by default when the aircraft is switched on.
2. The remote control beeps twice when high speed mode is enabled and once when low speed mode is enabled.

One-touch take-off/landing

1. When the aircraft is in standby, press the take-off button to make the aircraft take off automatically and hover at a height of 1.5 m.
2. When the quadcopter is in the air, press the one-touch take-off/landing button to make the aircraft land automatically.

Auto-Hover:

When you release the left joystick (throttle) after ascending/descending, the quadcopter will continue to hover at the current height.

Multicolour Light Controls

The lighted dome on the drone has a default setting of cycling through all colours. To change the light pattern during 'standby' mode (when the remote and drone are paired, but the drone is not flying), simply press the left joystick outward left or the right joystick outward right. During flight, press the left joystick in to change the light pattern. There are seven different colour patterns to choose from, including the default setting of cycling through all colours.

Obstacle avoidance

Obstacle Avoidance Conditions and Requirements:
- Slow Mode: The drone must be in the "slow mode" for the obstacle avoidance function to work.
- Infrared Detection: The obstacle avoidance feature uses infrared to function. Using the drone outdoors under sunlight or infrared light can negatively affect the obstacle avoidance feature.
- Best Detection for Light-Colored Objects: The drone's obstacle avoidance feature recognizes light-coloured objects the best. It may not work as well with glass or dark objects.
- Ceiling Distance: Flying too close to the ceiling can cause the drone to lose control.

NOTES:
1. White and light-coloured objects are most easily detected by the obstacle avoidance feature.
2. There is no obstacle avoidance when the drone is in high speed mode.
3. In order to avoid infrared interference, do not fly two aircraft within 5 meters of one another.

Headless mode

After pairing is completed, press and hold the right joystick (for about 2 sec.), the remote controller will beep twice, and the indicator light on the aircraft will flash slowly, indicating that it has entered the headless state; press and hold the right joystick again (about 2 sec.). When you hear a long beep, you will exit the headless state.
In the headless state, the controller does not need to identify the position of the aircraft's nose, but only needs to control the aircraft according to the direction of the joystick of the remote control.

Headless State Correction:

In the event that the aircraft has a collision and the fixed head direction becomes deviated, simply re-orient the aircraft by simultaniously moving the left and right joysticks to the lower left position.
Once completed, the indicator lights on the aircraft will flash slowly for 3 seconds and then emit a long light, indicating successful calibration.

Troubleshooting

The device has been evaluated to meet general RF exposure requirement.
Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the 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

2. this device must accept any interference received , including interference that may cause undesired operation.

Warning: 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 complies with FCC radiation exposure limits set forth for general population (uncontrolled exposure).This device must not be collocated or operating in conjunction with any other antenna or transmitter."

RF frequency band :2410-2472MHZ
Sold to EU country
product name: [Drone] model number: [X26Pro] Brand name :SYMA
Contact person: Ivan
Tel:+86-0754-86381701

Hereby, [GUANGDONG SYMA MODEL AIRCRAFT INDUSTRIAL CO., LTD], declares that this [aircraft] is in compliance with Directive 2014/53/EU.The full test of the EU declaration of conformity is available at the following internet address:
http://www.symatoys.com/down/declaration-of-conformity.html
SIMPLIFIED EU DECLARATION OF CONFORMITY

Manufacturer:
Guangdong SYMA Model Aircraft Industrial Co., Ltd. Address: 2 West Xingye Rd, Laimei Industrial Area, Chenghai, Shantou, China

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The company has the right of final interpretation of this user manual.

Documents / Resources

REVOLT X26LUM Obstacle Avoidance Drone [pdf] User Manual
X26LUM, GC88752-102, X26LUM Obstacle Avoidance Drone, X26LUM, Obstacle Avoidance Drone, Avoidance Drone

References

- ⊕ **Revolt Official Site**
- ⊕ **SYMA Official Site**
- **User Manual**