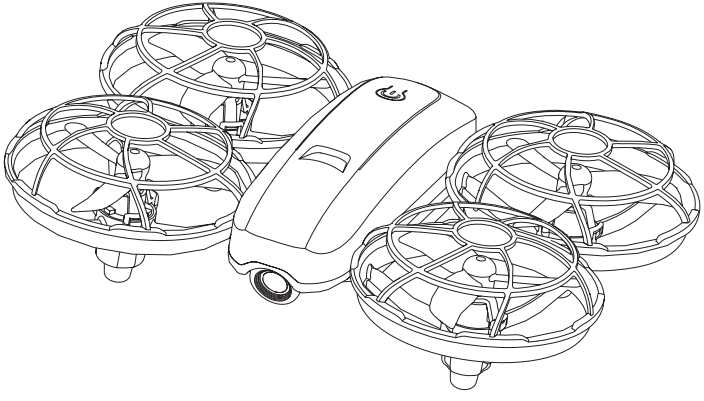
Suitable for ages over 14

Quadcopter operating instructions

English



Warning

1. The packaging and instructions contain important information and should be kept.
2. With this aircraft, you are responsible for ensuring that no harm will be caused to the personal and property of others.
3. Commissioning and installing of aircraft must be strictly in accordance with the operating instructions, and attention shall be paid to the distance between the aircraft and the user or other people shall be 2 to 3m to prevent the aircraft from bumping into the head, face and body of people and causing injury in flying and landing, etc.
4. Our company and distributors are not responsible for any loss and damage, as well as injury to people caused by improper use or operation.
5. Children should be guided by adults when operating the aircraft. This product is prohibited to be operated by children under 14 years old.
6. Please follow the instructions or packaging instructions to install and use correctly, and some parts should be assembled by adults.
7. The product contains small parts, please place it out of the reach of children to prevent the risk of accidental eating or suffocation.
8. It is strictly forbidden to play on the road or in the place where water is accumulated to avoid accidents.
9. Please put away the packing materials in time to avoid harm to children.
10. Do not disassemble or modify the aircraft. Disassembly or modification may cause malfunction to the aircraft.
11. The charging cable needs to be inserted into the designated power supply 5V 2A that is the same as the product label.
12. The use of other charging cables will cause damage to the battery and may cause unexpected dangers.
13. The charging cable is not a toy.
14. When charging the rechargeable battery, it must be under the supervision of an adult. When charging, it must be far away from flammable materials. During charging, the guardian should not leave the monitoring range.
15. Please do not short circuit or squeeze the battery to avoid explosion.
16. Do not mix different types of lithium batteries.
17. The aircraft uses a rechargeable lithium battery, which needs to be pulled out for charging.
18. Do not short-circuit, decompose or throw the battery into fire; do not put the battery in a place with high temperature and heat (such as in fire or near electric heating device).
19. The aircraft should be used as far away from other electrical equipment and magnetic objects as possible, they may cause mutual interference.
20. Please keep a safe distance from the high-speed rotating propeller to avoid the risk of scalp or cut
21. The motor is a hot part; please do not touch it to avoid burns.
22. LED has laser radiation; please do not give direct light beam to others.
23. Do not use the model near your ears! Misuse may cause hearing damage.
24. The USB charging cable must use the data cable provided by our company to charge the battery, otherwise it will cause serious damage to the battery and will lead to unexpected danger.
25. To meet the magnetic environment requirements of aeronautical radio stations. During the radio control order issued by the relevant state departments, the model remote control should be stopped within the city area as required.
26. Turn off the switch and unplug the battery when the battery of the aircraft is used up, and charge after 30 minutes of rest, otherwise the battery will be easily damaged.

1. List of accessories included:

Aircraft ×1

USB charging cable ×1

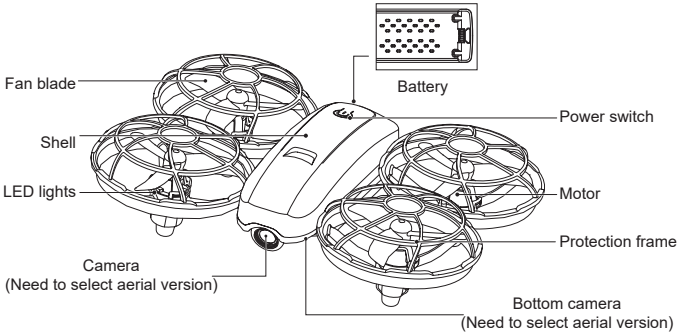
Fan blade ×2

Lithium battery ×1

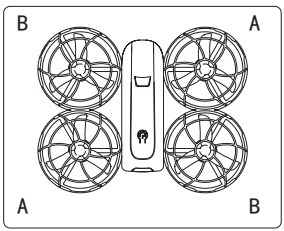
Screwdriver ×1

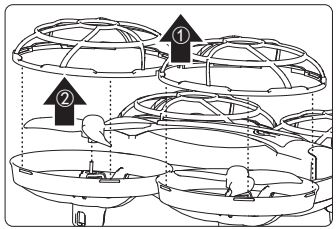
Operating Instructions ×1

2. Name of each part of aircraft:



3. Wind blade installation diagram:

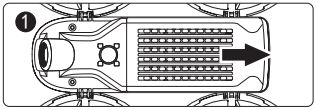




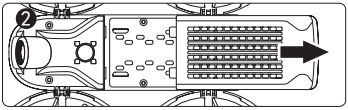
3.1 Remove the protective cover, then the propeller.

⚠ Note: The fan blade is printed with letters of A1, A2, B1, and B2, in which, A1 = A2, B1 = B2, please install it correctly according to the diagram, otherwise it cannot take off

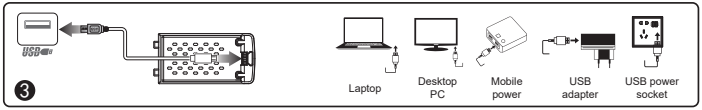
4. Lithium battery charging instructions:



4.1 Push rightwards in accordance with the drawing.



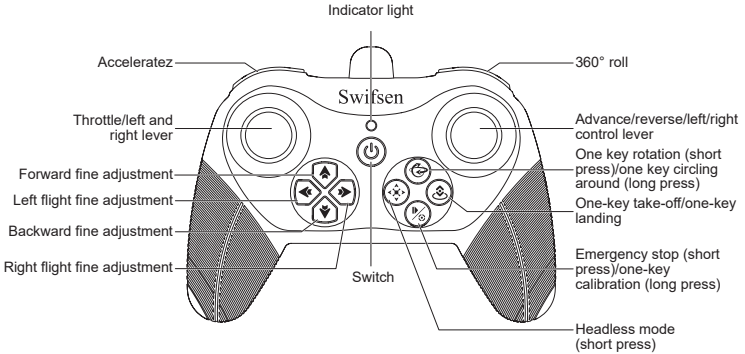
4.2 Remove the battery.



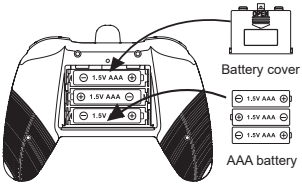
4.3 Charging: Insert the USB port of the USB charging cable into the computer USB port (or use 5V ⎓ 2A power adapter), and connect the other end of the USB charging cable to the battery socket. When charging, the red indicator on the module battery is on, and when the battery is fully charged, the red indicator light goes out, which means that the charging is complete.

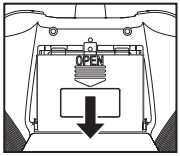
It must be charged with the aircraft charging cable provided by the factory, and other charging cables cannot be used. Be sure to remember to avoid accidents.

5. Name of each part of the remote control:



6. Remote control battery installation:





Battery installation:

6.1 Remove the battery cover.

6.2 According to the polarity instructions on the battery compartment, remove the battery cover on the back and insert a 3X “AAA” battery (not included).

Instructions in charging:

- Do not put the charged battery in a place with high temperature and heat, such as an open flame or an electric heating device, otherwise damage or explosion may occur.
- Do not hit or beat the surface of hard objects with the battery.
- Do not disassemble the battery.
- Do not immerse the battery in water, and please store the battery in a dry place.
- Do not leave battery alone when charging.

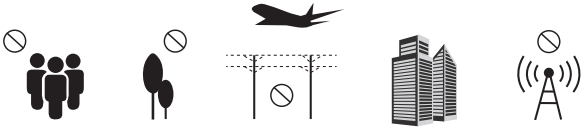
Warning

When not flying, please do not install the battery in the aircraft to avoid battery damage.

Note

1. The positive and negative poles and the positive and negative poles of the battery box must be identified when inserting the battery, and error is not allowed.
2. Do not mix old and new batteries.
3. Do not mix different types of batteries.
4. When not flying, please do not install the battery in the remote control to avoid battery damage.

7. Environmental requirements before flight:

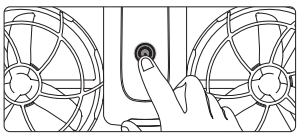


Please choose an outdoor and open environment with no rain and snow and low wind. Please stay away from crowds, trees, wires, tall buildings, airports, and signal transmission towers when flying. Do not fly in a too small indoor environment with lots of things.

APP can only be viewed (photographed/recorded) when using the remote controller, and the remote controller cannot be used when using APP.

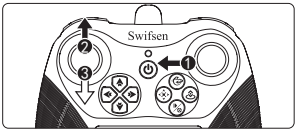
8. Pre-flight preparation instructions (using remote control):

8.1 Turn on the power of the aircraft and place it on a horizontal surface. At this time, the aircraft placed on the horizontal surface will automatically enter the frequency matching state, The fuselage lights flash.



⚠ Note: Set the aircraft in a correct direction, and the nose shall face forward. It must be placed on the horizontal plane.

8.2 Turn on the remote controller (default mode)-Long press the power switch button of the remote controller (step 1), turn on the power indicator of the remote controller to flash, push the throttle lever upward to the top (step 2) and then push it to the end (step 3). The frequency is successfully matched, and the unmanned plane lamp will not flash and turn on normally.



Warning The aircraft/remote controller must ensure sufficient power or it cannot take off!

8.3 Horizontal calibration operation:

Press and hold the calibration button on the remote control , the LED light on the aircraft flashes quickly. The LED lights on the aircraft are always on, which means the calibration is complete, and the remote controller emits a "beep" (Figure 1).

⚠ Note: The calibration must be completed only when the aircraft is placed on a horizontal plane.

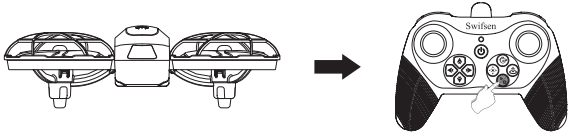


Figure 1

8.4 Start/stop

Push the left control lever on the remote control upward (Figure 2). At this time, the aircraft can take off normally. After taking off, all the indicator lights of the aircraft will always be on. During the flight, whether you short press the key, the aircraft will stop flying (Figure 3).

⚠ Note: This function operation is only suitable for the aircraft in an uncontrolled state. Under normal circumstances, it is recommended to use the one-key takeoff/one-key landing key.

Figure 2

Figure 3

8.5 One-key take-off and landing

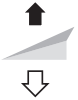
When unlocking is complete, gently press the “One Key Takeoff/Landing” key on the remote control (Figure 4), the aircraft will automatically rise to a height of about 1 meter to maintain a stable flight; when you press this function key gently again, the aircraft will automatically land slowly.

Figure 4

Operate the aircraft with the remote control. Before taking off, please operate according to the above sequence: Turn on (refer to 8.1)→ frequency matching of the remote control starts (refer to 8.2)→horizontal alignment (refer to 8.3)→start/stop (refer to 8.4)→ one-button taking off and landing (refer to 8.5)

9. Introduction of remote control function and operation:

9.1 Remote control method:

 	When the left joystick (throttle) is pushed up, the rotation rate of the main blade increases and the aircraft rises. When the left joystick (throttle) is pushed down, the rotation rate of the main blade slows down and the aircraft descends.
 	When the left joystick (rudder) is pushed to the left, the aircraft nose turns to the left. When the left joystick (rudder) is pushed to the right and the nose of the aircraft will turn to the right.
 	When the right joystick (rudder) is pushed up, the aircraft moves forward. When the right joystick (rudder) is pushed down, the aircraft moves backward.

When the right joystick (rudder) is pushed to the right, the aircraft fuselage deviates to the right.
When the right joystick (rudder) is pushed to the left, the aircraft fuselage deviates to the left.

9.2 360° roll

The aircraft can achieve 360-degree flight by the following joystick operation. In order to better perform the roll function, a height of about 1.5 meters shall be ensured between the aircraft and the ground. It is best to operate the aircraft to roll during the ascent stage, so that the aircraft can maintain the height more easily after rolling.

9.2.1 360° roll on the left
Short press the 360° roll button, then push the right joystick to the left, and the aircraft will flip 360° to the left accordingly.

9.2.2 360° roll on the right
Short press the 360° roll button, then push the right joystick to the right, and the aircraft will flip 360° to the right accordingly.

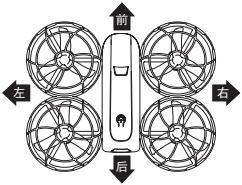
9.2.3 Roll Forward 360°
Short press the 360 tumble button, then push the right joystick upward, and the aircraft will turn forward 360° correspondingly.

9.2.4 360° roll backward
Short press the 360° roll button, then push the right joystick down, and the aircraft will flip 360° backward accordingly.

9.3 Headless mode

The front of the aircraft when the code-matching is turned on is by default the front in headless mode; if it is necessary to adjust the direction, please turn on the code-matching again, and short press the remote controller "headless mode" function key (Figure 5). When exiting, please tap gently press this function key again.

⚠ Special Tip: Please make sure the aircraft is aligned with the straight line and let the gyroscope automatically detect the straight line, and the headless mode of straight line flight can be realized.



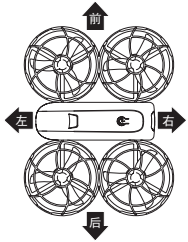


Figure 5

9.4 Speed switching

When the aircraft takes off, it is by default in the low-speed mode (3-geared switching); gently press the remote control by a "beep" sound for low-speed gear, two "beep" sounds for medium-speed gear, and three "beep" sounds for high-speed gear (Figure 6).

Figure 6

9.5 Fine tuning function

1. Fine tuning of aircraft moving forward/backward

When the aircraft leaves the ground and the aircraft deviates to the rear, press and hold ① forward fine-tuning key to fine-tune; when the aircraft deviates to the front, press and hold ② backward fine-tuning key to fine-tune.

2. Fine tuning of aircraft deviates to the left/right

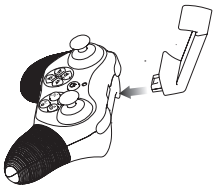
When the aircraft leaves the ground and the aircraft deviates to the right, press and hold ③ left fly fine-tuning key to adjust, and when the aircraft deviates to the left, press and hold ④ right fly fine-tuning key to adjust.

9.6 Optical flow assisted positioning (Aerial version required)

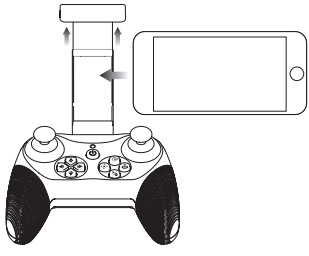
The aircraft flies on a good ground, and the optical streaming will assist the aircraft, hovering in one place according to the ground and altitude conditions. It is normal for there to be a drift of about 1 meter (Figure 7).

Figure 7

9.7 Aerial photography version mounting instructions for the mobile phone holder (Aerial version required)



1. Align the mobile phone holder with the remote control slot position.



2. Elevate the assembled mobile phone holder, and then align the mobile phone with the phone holder and place it in place.

10. FAQ and solving guidelines:

Question	Reason	Solution
The aircraft indicator flashes without any response	The aircraft has insufficient power	Charge the battery
The blades of the aircraft rotate but cannot fly	1. Low battery 2. Blade deformation 2.2 Installation error of AB propeller	1. Charge the battery 2.1 Replace the blade 2.2 The fan blades are printed with letters A and B. For fan blade A or B, replace the one that is broken.
The aircraft vibrates badly	Blade deformation	Replace the blade
Fine tuning is done but still can't make the aircraft stable	1. Blade deformation 2. Defective motor	1. Replace the blade 2. Replace the motor
After the impact, start the aircraft again and it fly uncontrollably	The three-axis acceleration sensor loses its balance due to impact	After leaving the aircraft for 5-10 seconds, or by the horizontal calibration, it will be ok. For the steps, please refer to the manual, 8.3 horizontal calibration operation.

FCC Warning Statement:

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.

The device has been evaluated to meet general RF exposure requirement.