

Important statement

- This product is applicable to teenagers and adults over the age of 14. This remote controlled four-axis drone has certain difficulties of the early stage of learning. Suggest only fly under the guidance of someone with operational experience.
- This product is designed with high end new technology in many aspects such as electronics and machinery. For those with less experience operators, it should be kept away from people during flight. We are not responsible for any serious personal injury or property loss which may result from improper operation.
- Once the product is sold, we will not assume any safety responsibilities such as accidents occurred during operation or use.
- In case of problems of use, operation and maintenance, you can contact local dealers to provide technical support or after-sales service.

Caution:

- Please use to check your surroundings before flying.
- Do not let the drone fly out of sight while flying.
- Choose covered by drone. Please fly with adults.
- Please confirm that there is no other product using the same frequency band in the same area.

WARNING

- The charger, wires, plugs, shells and other parts should be checked regularly. If any damage is found, it shall be discontinued until it is repaired.
- Only use original charger/charger is not toy.
- Please clean the product with a clean and soft cloth. The drone should be disconnected from the charger before charging.
- Adult supervision is required when charging a rechargeable battery.
- A non-rechargeable battery is not rechargeable.
- Do not short circuit, decompose, fall into the air or put into fire.
- For the long time not operate product. Please remove the battery.
- Do not seriously crash or drop the drone and remote controller.
- This packing and instruction manual contains important information about the product. Please keep it.

Standard components

Name of components

No.	Name	Quantity
1	Positive rotor blades	2
2	Reverse rotor blades	2
3	Upper body	1
4	Protected shell	1
5	Positive rotor	2
6	Reverse rotor	2
7	Lithium battery	1
8	Receiver board	1
9	Camera	1
10	Camera board	1
11	Bottom shell	1

Controller instruction

Battery Installation

As shown in the picture, remove the battery cover of the remote control, according to the battery pole in the battery box, install 3pcs of AAA batteries correctly. (Additional purchase) and reconnect the batteries cover and tighten the screws.

Note:

- When installing the battery, the positive and negative poles of the battery must be identified, and the positive and negative poles of the battery box must be identified. Please don't install wrong.
- Do not mix new and old batteries of different types of batteries. The poor batteries should be taken out in time.

Calibration between drone and controller

Step one

First, turn on the switch button of the remote control, and then switch on the power switch of the drone. Put the tail of the drone point of you and put it on the horizontal surface. At the same time, the remote control will be come "beep, beep" sounds. It indicates a successful matching code.

Important note: The drone turn on/off needs to connect the battery line and power line. Because the internal gears need to be horizontal controlled after the drone open, to please, must put it in the horizontal surface place.

As shown in the picture, push both joystick of the remote control to the lower right corner at the same time. When the indicator light of the drone flashes quickly, release the remote control and wait for the indicator light keeps on lighting. The remote control will come "beep beep" sounds and the calibration completed. If long time not use it, please take out the battery of the remote control and keep it in the horizontal surface. If not remove the batteries of the remote control, also if for long time, will cause leakage of battery and damage the remote control, even cause the risk of burning.

Controller's function

- On/off: Long Press "On/Off" button to turn on the controller. (2) Long Press "On/Off" button to turn off the controller. (3) 2 clicks/blink: Turn on the controller first, then turn on the Drone power. When you hear the "beep beep" 2 sounds, the indicator lights always on, it means the code match completed. Push the throttle lever to the left corner, push the direction lever to the right corner (push them of the same time), take the motor. When the motor starts work, release both lever. Push throttle lever to the right corner, push the direction lever to the left corner (push them of the same time), the motor will be stop.
- Throttle control: After unlock the controller, push the throttle more than middle, the drone will take off. Push the throttle lever to the left corner, push the direction lever to the left corner (push them of the same time), the motor will be stop.
- Take photo/video: Short press "Take picture/video" button to take photo, long press it to take video. Photos and videos will save in the app.
- Short Press to Charge Speed: Short press the button to adjust the speed. There has three speed level, when the buzzer beep comes one sounds, it's speed level one, drone will move slowly. When the buzzer beep comes two sounds, it's speed level two. When the buzzer beep comes three sounds, its level three, which is the fastest speed level.
- Headless mode: Start and settings: Short press the headless mode button, the remote control beeps twice, the drone indicator light flashes slowly, headless mode start. Now the direction of the drone's head is the front of headless mode. If there has a crash or flying forward deviation, please refer to adjust the required direction frequency.
- Exit headless mode: Short press the headless mode button again, (the remote control beeps and the drone indicator light is always on), it is exit headless mode.
- Headless mode, no matter which direction the head of the drone turns, the current position of the remote control is the right and behind of the drone. At this moment, pull down the joystick it can recall the drone. Push the joystick up, the aircraft can fly away.
- On key to return: When the rear of the drone are aligned with the pilot, after a short press the button, the drone will automatically return. If it's off track happen during return you can correct the channel through the left and right joystick. Short press the button again to end the return trip. Use the back and forth direction joystick also can end the return trip.

Correct operations of drone

Before you fly the drone, please do some simulated flight practice.

Throttle (top position)	Ascend	Push the throttle lever up, drone will fly forward.
Throttle (zero position)	Descent	Push the throttle lever down, drone will fly down.
Spin around	Turn left	Push the throttle lever to left, drone will fly down.
	Turn right	Push the throttle lever to right, drone will fly down.
Flight forward and backward	Fly forward	Push the direction lever up, drone will fly forward.
	Fly backward	Push the direction lever down, drone will fly backward.
Left/Right	Fly left	Push the direction lever left, drone will fly left.
	Fly right	Push the direction lever right, drone will fly right.

Charging

- Remove the lithium battery from the drone, insert one end of the charging cable with the USB port into the phone charger interface, and then the interface with the plug on the other end is directly connected to the battery cable.
- Plug the charging cable into the USB port of the computer host. The method is the same as above, and the charging can be completed.
- The indicator light is always on under the charging time, and it will automatically crum out when the battery finishes the full charge.
- When the charging time is started into the USB port and lithium battery is not plugged into the charging line, the indicator light of the charging time flashes in a normal condition.

Caution: During the flight, when you hear the "beep" sounds from the remote control, it indicates that the drone's battery voltage is not enough, so the drone should land behind to recharge. It is need to charge with this special charger we gave.

Batterycharge

Mobile phone adapter, Output: 5V, Charging current: 1.2A

The battery warning

Rechargeable battery. This drone can use rechargeable lithium batteries. If the battery cannot be recharged again, dispose of the battery properly according to local treatment regulations.

Remote control battery. The remote requires "AAA" batteries (not included). Read the important battery safety warning below.

- Do not mix with old, standard (carbon zinc) and rechargeable batteries (nickel hydrogen).
- Do not mix old and new batteries.
- Prohibit charging non-rechargeable batteries.
- Rechargeable batteries should be removed from the remote control (if removable) before being charged.
- Rechargeable batteries can only be used under adult supervision.
- Batteries shall be disassembled as soon as they are used and must be properly recovered or disposed in accordance with national or local government decrees and rules.
- Check supply terminals should not short circuit.
- Recommends using the same or the same type of battery.
- Battery shall be installed according to correct polarity (refer to internal specification).
- Do not throw batteries in the fire that could cause a leak or explosion.

Don't fly the drone in below conditions

Don't fly the drone in below conditions

Under the signal tower, high voltage pole

An unexamined place with too many people

A field of rain and thunder

Near Airport, rail cars

Roads and nearby places

Near trees/rivers

Strong and romantic environment

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Fly operations of drone

Headless mode button, the control of drone

Front flip: move direction lever forward.

Back flip: move direction lever backward.

Left flip: move direction lever left.

Right flip: move direction lever right.

Notice

LED Indicator	Charging specification
light on	input
light on blink	charging current
light blink	full voltage
charge completed	charging
	Ready mode
	5V
	420-450mA
	4.2V ± 0.05V

Battery and charging specification		charging time
battery type	battery specification	charging time
Lithium batteries	3.7V 400mAh	drone flight time 4-8mins
		about 10 mins (charging current: standard 0.5A)

Flight adjustment and notice for beginners

Caution:

- Confirm again that the screws and blades are firm.
- Verify that the remote controller and drone's batteries are sufficient.
- Confirm again that the direction of the wind blades is fitting in right position.

Caution:

- Make sure there are no other people or obstacles in the flying area.
- In order to fly safely, you must first practice the hover, which is the basis of the right action (hover the drone stays in the air and maintains a fixed position).
- Please stand 2 meters behind the drone during practice.

1. Throttle lever practice

Throttle control is in the left hand, push throttle rocker up slowly, immediately release the rocker, the drone will rise and hold at a fixed height. Put the lever slowly down, and release the lever immediately, and the drone will descend and stay at a fixed height. Repeat until you are able to control the drone to any height, and you are stable settle down to the ground.

2. Direction control practice

- Practice forward and backward, it's in the right hand up and down direction keep the drone at a certain height. Then fly one meter forward slightly after the drone stabilizes fly back one meter. And repeat this practice.
- Practice left and right side flying, it's in the right hand left and right direction side. The method is the same as above.

Caution:

When the drone is flying for away, please lower the throttle and land the drone, then walk to the right column of the drone 2 meters and continuing the control. Or bring it back to the home position keep practicing.

Flight adjustment and notice for beginners

5. Change the direction of drone

When you feel familiar with Step 1-4, stand on the side facing the drone and continue to practice Step 1-4. Then, stand in front of the drone and repeat the steps.

5. Trim

Slowly lift the throttle lever. When the drone has just left the ground, if the drone tends to move around, you can used trimming to correct the action.

1. After the drone takes off, you can press slowly shift to the forward/backward direction, you are prone to adjust when it forward/backward (as shown in the figure) to adjust. When it forward shift trim down to adjust. When it backward shift, trim up to adjust. (Without controlling the direction, slight deviation belongs to normal condition, drone without fixed point function.)

2. After the drone takes off, the drone slowly shift to the left/right direction, you can press left/right (as shown in the figure) to adjust. When it right shift trim left to adjust. When it right shift trim left to adjust.

7. Stable flight, flexible, easy realize 3D flip

When you feel familiar with Step 1-4, stand on the side facing the drone and continue to practice Step 1-4. Then, stand in front of the drone and repeat the steps.

When you're skilled in the basics above, you can play some thrilling flip moves. First, fly the drone to a height of more than 2 meters. Press flip bottom, then push the directional rocker toward the bottom of any of the four directions in front/back/left/right. The drone flip in this direction, performing the flip steadily & swiftly.

The application of App

● APP download and installation

Download the APP according to your mobile phone system model, as follows:

- Android System: A. Search for the keyword "AT_96" in Baidu, mobile assistant APP (Android market or 91 Assistant) to download. Or use a browser to scan QR code to download. If QR code download fail, please download Baidu mobile assistant APP. B. On Google play, search for the keyword "AT_96" to download.
- For iOS system: Please go to App store, enter the key word "AT_96" to download the app.

● Operating instructions of APP

1. After installing the APP on the phone, click enter and the following screen appears.

2. The Wifi connection

- Click open your drone first and connect your mobile Wifi hotspot to AT_96. (2) After the APP if the mobile APP is successfully connected to the drone, you can see real-time image transmission in the APP. (3) If can be controlled remotely by a mobile phone.
- The remote control is invalid when the mobile phone controls the drone. Mobile phone control is invalid when the remote control controls the drone.

The application of App

- Throttle lever: Turn on the Throttle lever, and the drone indicator light will be always on. At this time, you can fly through the virtual handle.
- Press enter to set for throttle and direction control.
- Take pictures: Trigger the APP photo function. Short press the remote control also can take photos.
- Camera shooting: Trigger the APP camera shooting function, the camera shooting starts, and trigger the camera again, it will stop camera shooting. Long press the remote control camera function can also be used for camera shooting.
- WiFi status: This icon displays the signal strength of the drone connected to the remote control.
- Photo album: Click on this to view the photos and recorded video you take.
- Photo Photography: Click the setting button in the lower right corner of the screen, then turn on the thumb automatic camera switch and return to image interface. A rectangle frame will appear in the middle of the screen, then put your thumb and place it in the frame and it will automatically take photos after countdown 3 seconds.

FCC 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.

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 static, even if that interference was caused by the user's equipment.

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

To maintain compliance with FCC's RF exposure guidelines, this equipment should be installed and operated with minimum 20cm distance between the radiator and your body, use only the supplied antenna.

MADE IN CHINA

FCCID:AQ175-D90C-RD

Problem shooting

Troubleshooting	Cause	Solutions
1. Turn on the drone, LED blinks, while the drone has no responding at all times.	Fail between drone and controller	Update refer to the frequency alignment of remote controller and receiver (if).
2. Turn on the drone, the drone has no reaction to the commands.	The battery died	Charge the drone
3. Blades keep moving after landing	Throttle levers not set the zero position	Push the throttle lever to zero position
4. Blades keep moving, while the drone can not take off	2. Blades may installed wrong 3. The enough power	1. Change the blades 2. Charge the battery
5. After trimming, drone keeps spin and the speed of blades is different	1. Blades may installed wrong 2. Blades get damaged 3. Calibration failed	1. Install the blades 2. Replace the blades 3. Refer to p.3 for calibration
6. The drone can not take off after stop	1. Blades are getting lost 2. Blades get damaged	1. Tighten the blades 2. Replace the blades

Warning: Check every 15 min published time

APEX

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- Fly operations of drone
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NO.GD-90C

Replace blades

To achieve an optimal flight function, the blades need to be checked or replaced after multiple flights. Emergency landings, especially from high altitude will damage blades.

1. When replacing the blades, please make sure that the letters on the blade (F is the forward rotating blades, R is the reverse blades, letters are on the back of the blade). 2. Pay special attention to replacing damaged blades with properly blades. Must not change the wrong direction of the blades!

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