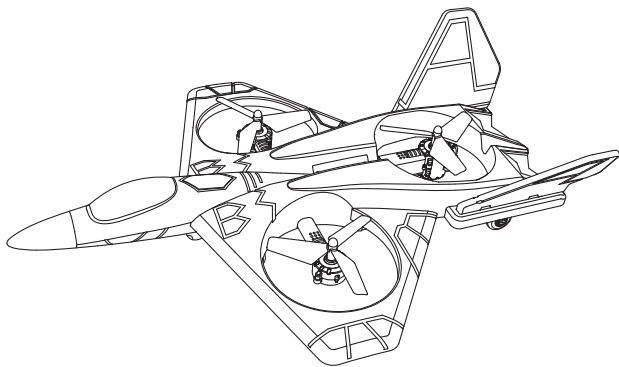


4D-V27

Suitable for ages over 14

Quadcopter operating instructions



WiFi version

English

- In order to meet the requirements of the aeronautical radio station's electromagnetic environment (various of aero models and UAV are not allowed to fly within the range of 10 km on each side of center line and 20km on both ends of the airport runway and in the) and civil aviation routes and airlines. Using various models and drones in the no-fly zone issued by the relevant state departments is prohibited.

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 $\overline{\text{---}}$ 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 ×4



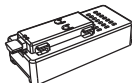
Operating Instructions ×1



Front landing gear (long) ×1



Rear landing gear (short) ×2

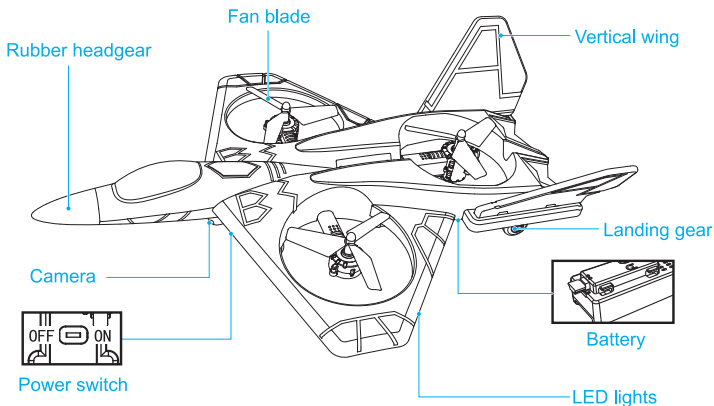


Lithium battery ×1



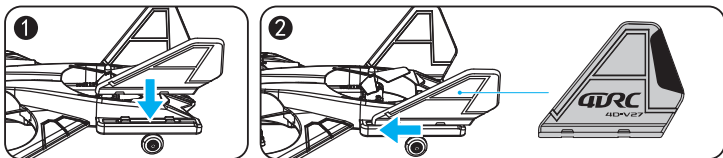
Remote control ×1

2. Name of each part of aircraft:



3. Installation of aircraft parts:

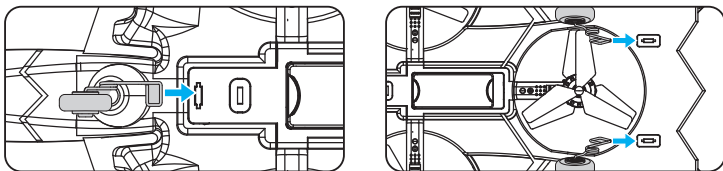
3.1 Assembly of the vertical wing:



Install the vertical wing correctly according to the illustration: 1. Align the vertical wing with the fuselage socket for docking. 2. Push the vertical wing forward to confirm that it is installed in place before flying. When installing the vertical wing, the pattern must be installed on the outside of the aircraft (Figure 2).

⚠ Note: Please make sure to install the vertical wings in place before flying!

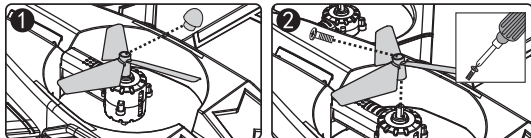
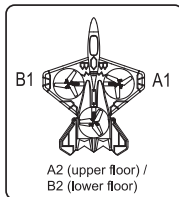
3.2 Assembly of landing gear:



Assemble the landing gear correctly according to the diagram: align the landing gear with the socket on the bottom of the aircraft for docking

⚠ Note: When installing the landing gear, the direction of the bent metal part of the landing gear must be consistent with that in the figure to avoid wrong installation direction which causes unable to take off!

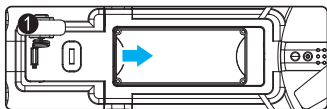
3.3 Wind blade installation diagram:



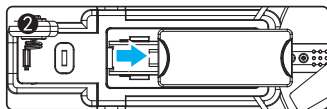
3.3 Remove the cap of the fan blade, unscrew to remove the connecting parts, and then remove the fan blade. (Replace fan blade A when it is broken, so does fan blade B, and it can not take off when the replacement is error)

⚠ Note: The wind blade is printed with letter A and B, please install it correctly according to the diagram, otherwise it will not take off

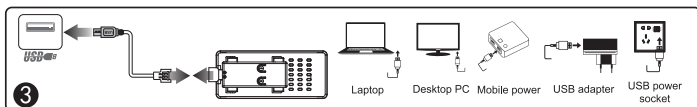
4. Lithium battery charging instructions:



4.1 Slide up to open the battery cover according to the illustration



4.2 disconnect the aircraft from the battery power port and then remove the battery.

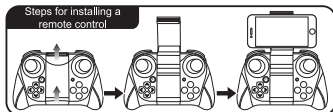
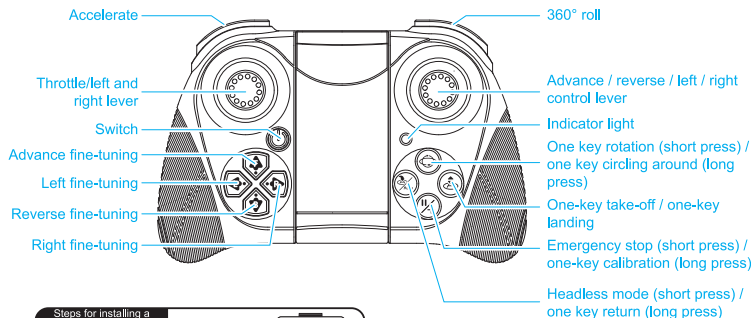


4.3 Charging: Insert the USB port of the USB charging cable into the computer USB port (or use the power adapter with an output of 5V $\overline{\sim}$ 2A), and connect the other end of the USB charging cable to the battery socket. The red light is off when charging, and the red light is on when the charging is complete.

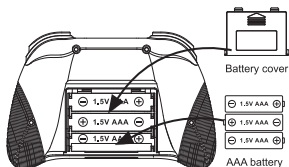


It must be charged with the aircraft charging cable provided by the factory, and other charging cables cannot be used. Be sure to remember to avoid accidents.

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.

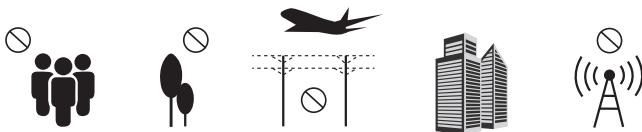
Warning

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

Note

1. The positive and negative poles 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.

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.

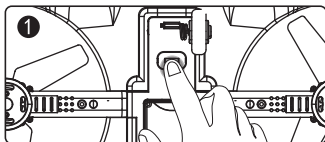


APP can only be viewed (photographed/recorded) when using the remote controller, and the remote controller cannot be used when using APP.

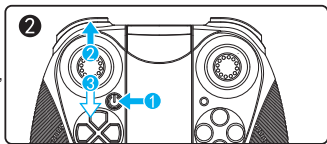
8. Pre-flight preparation instructions (using remote control):

- 8.1 Aircraft frequency matching: Turn on the power of the aircraft and place it on a horizontal plane. At this time, the aircraft placed on the horizontal plane will automatically enter the frequency matching state, and the left and right blue lights of the fuselage and the red lights of the rear tail will 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 Press and hold the power switch button of the remote control (①) (step 1), and the power indicator of the remote control will be on; push the throttle lever up to top (step 2) and then to the end (step 3), code-matching will succeed, and the aircraft light will change from flashing to be always on.



It must ensure that the power of the aircraft/remote control is sufficient or it cannot take off!

8.3 Horizontal calibration operation:

Long press the calibration key on the remote controller,  and the LED lights on the aircraft will flash. When the LED lights on, calibration of the aircraft is completed, the remote controller emits "beep" (Figure 1).

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

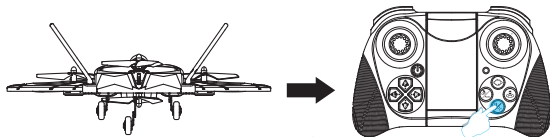


Figure 1

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.

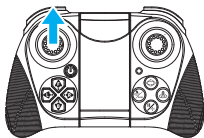


Figure 2

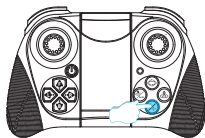


Figure 3

8.5 One-key take-off and landing

When the frequency matching is completed, lightly press the remote control "one-key takeoff/landing" button  (Figure 4), the aircraft will automatically rise to a height of about 1 meter, and keep flying at this height; when this function key is pressed again, the aircraft will automatically land on the ground slowly.

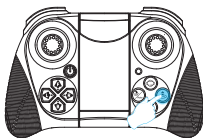
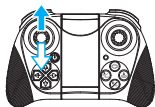


Figure 4



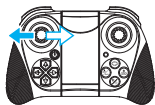
Please follow the steps in the above sequence before taking off: open (reference 8.1)→ remote control starting frequency matching (reference 8.2)→ horizontal calibration (reference 8.3)→ start/stop (reference 8.4)→ one-button take-off and landing (reference 8.5)

9. Remote control method:

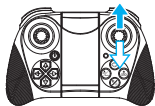


When the left joystick (throttle) is pushed up, the rotation rate of the main blade increases and the aircraft rises.

When the left joystick (throttle) is pushed down, the rotation rate of the main blade slows down and the aircraft descends.

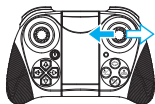


When the left joystick (rudder) is pushed to the left, the aircraft nose turns to the left.
When the left joystick (rudder) is pushed to the right and the nose of the aircraft will turn to the right.



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.

10. 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.



10.1 360° 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.



10.2 360° 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.

11. Introduction of remote control function and operation:

11.1 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.

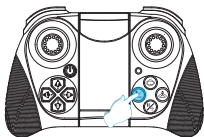
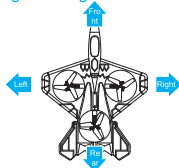
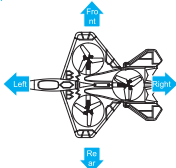


Figure 5



11.2 One-key return

The return function can be used to recall the aircraft when the flight distance of the aircraft is too long. The remote controller must be facing the tail of the aircraft when starting up and frequency matching. During the flight, long press the "Return" key (Ⓜ) (Figure 6). The remote controller sends out a "beep" sound, the aircraft enters a key to return home and automatically flies back to us. When the right rocker is operated arbitrarily, the return function is released.

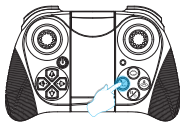


Figure 6

11.3 Speed switching

When the aircraft takes off, it is by default in the low-speed mode (3-gear 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 7).

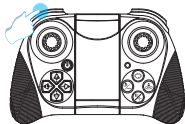


Figure 7

11.4 Taxi take off:

Place the aircraft on a horizontal plane, and push the right joystick upwards to make the aircraft glide close to the ground for a certain distance and then take off.

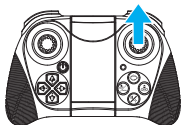
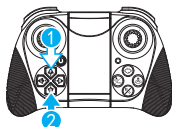


Figure 8



11.5 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.

12. APP download and installation instructions:

12.1 Download and install the software

After scanning the code with your mobile phone, select the corresponding system to download in the browser





Download on the
4DRC FPV

Please scan this QR
code to install

IOS app store >

Android Google >

Android China >

12.2 Link description

- ① Turn on the power of aircraft, enter the (Settings) option (of mobile phone or IPAD), and open the wireless network; find the device name of "4DRC*****" in the wireless network search list and connect; after connection, exit the setting option.
- ② Open the software icon of "4DRC FPV" in mobile phone to enter the control interface. (Try to stay away from other signal source environment when there is a shifting)



Open "4DRC
FPV" software



Select START to enter
the control interface

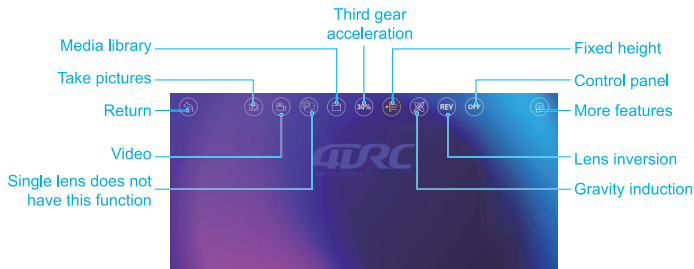


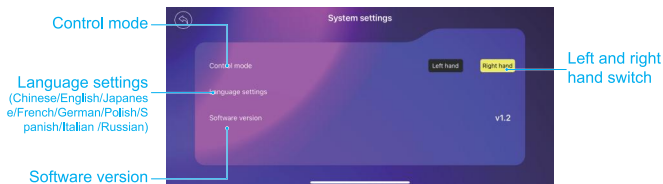
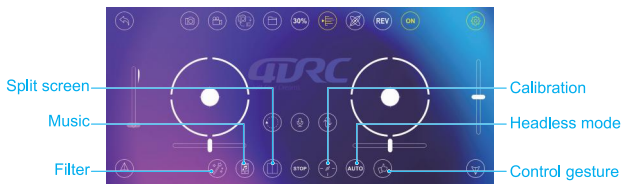
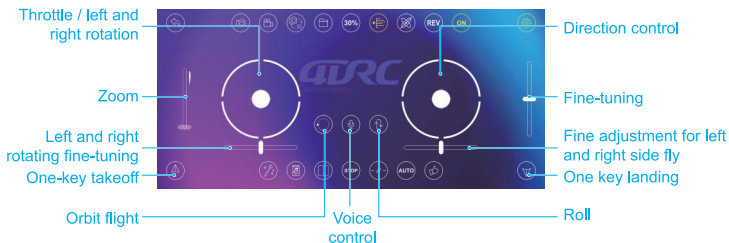
Select and click
"More Features"



Enter the function menu

13. APP control interface function introduction:





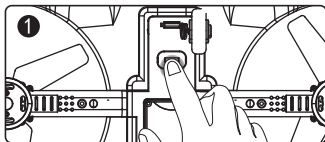
APP setting: When the control switch is turned on, click the APP main page setting button to adjust the parameters.

Note: The interface setting (right-handed mode) will turn the control interface operation lever horizontally, which is convenient for the crowd who operate with left or right hand.

14. Pre-flight preparation instructions (using APP):

14.1 Aircraft frequency matching: Turn on the power of the aircraft and place it on a horizontal plane. At this time, the aircraft placed on the horizontal plane will automatically enter the frequency matching state, and the left and right blue lights of the fuselage and the red lights of the rear tail will flash.

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



14.2 Turn on the wifi function in the mobile device, select "4DRC*****" in the wifi list (Figure 9), and open the APP after the connection is successful. Click START to enter (Figure. 10), click OFF (Figure. 11), turn on the touch joystick, and click More Functions (Figure. 12) to turn on the "aircraft constant light on", which means that the frequency matching is successful.



Figure 9



Figure 10



Figure 11



Figure 12

14.3 Horizontal calibration operation:

APP Application operation: click the "correction" icon in the app interface. The LED light on the aircraft flash and the calibration of the LED light on the aircraft is completed.

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

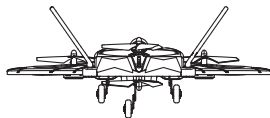


Figure 13

14.4 One-key take-off and landing

APP operation: Click the "one-key take-off" icon (Figure 14) in the APP control interface, and the one-key takeoff function can also be realized; during the flight, click the "one-key landing" icon (Figure 15), and the aircraft will automatically land slowly.

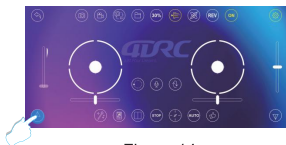


Figure 14



Figure 15



APP operation: Before taking off of the aircraft, please follow the steps in the above sequence: turn on (see 14.1) → APP start the frequency matching (see 14.2) → level calibration (see 14.3) → one key take-off and landing (see 14.4)

15. APP Application 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.

16. APP Application function operation introduction:

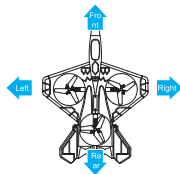
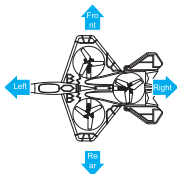
16.1 Headless mode

APP Application operation: the front of the aircraft when starting up for frequency matching is the front of headless mode by default; Whether you need to adjust the direction you need, please restart the frequency matching, enter the APP Application interface, expand the function menu and click the headless mode function (Figure 16). when exiting, please click this function icon 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 16



16.2 Speed switching

APP operation: Click the "Third gear acceleration" icon in the APP control interface, and the flight speed can also be switched (Figure 17).



Figure 17

16.3 Fine tuning function



1. Fine tuning of aircraft moving forward/backward
When the aircraft leaves the ground and the aircraft deviates to the rear, click the forward fine-tuning button of fine-tuning joystick ① to adjust. When the aircraft deviates to the front, click the back fine-tuning button of the fine-tuning joystick ② to adjust.



2. Fine-tuning of left/right rotation of aircraft
When the aircraft leaves the ground and the aircraft rotates to the right, click the fine-tuning joystick ① left-rotation fine-tuning key to adjust; when the aircraft rotates to the left and offsets, click the fine-tuning joystick ② right-rotation fine-tuning key to fine-tune.



3. Fine tuning of aircraft deviates to the left/right
When the aircraft leaves the ground and the aircraft deviates to the right, click the left fine-tuning button on the fine-tuning joystick ③ to adjust. When the aircraft deviates to the left, click the right fine-tuning button on the fine-tuning joystick ④ to adjust.

16.4 Gesture recognition

When facing the camera's front lens, click the gesture photo button on the APP, and use any of the following gestures to trigger the aircraft's photo or camera function.

⚠ Special tip: Please aim directly at the lens and perform gesture recognition at a position about 2-3M away from the lens and in an environment with good light and background.



Correct gesture



Wrong gesture

Gesture photo: About 2m in front of the aircraft lens, raise the palm of one hand (palm forward) to a horizontal level on the side of the body; after the aircraft recognizes the gesture, start a 3-second countdown and take a photo (the arm can be lowered at this time) (the time difference between two consecutive recognitions should be greater than 3s) (some models do not support this function, turning on the function will cause delay of screen)



Correct gesture



Wrong gesture

Gesture recording: About 2m in front of the aircraft lens, make a fist with one hand (palm forward) and raise it to a horizontal level on the side of the body; after the aircraft recognizes the gesture, start a 3-second countdown and start recording (you can put your arm down at this time). When the fist gesture is recognized, the videoing will end. (The palm will not be detected during videoing.)

16.5 MV interface

Click the "filter interface" icon (Figure 18) in the APP control interface, after entering the filter interface, you can choose to match your favorite filter effect, click the recording icon to start recording (Figure 19). After the recording is completed, the synthesized short video or picture will be saved to the media library (Figure 20).

Special tip: During the recording process, you can rotate the screen or switch the filter effect, and you can also turn the joystick on / off to control the direction and altitude of the aircraft.



Figure 18

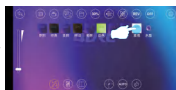


Figure 19

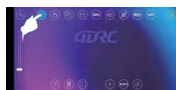


Figure 20

17. 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 2.1 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. If fan blade A is broken, replace A, and if fan blade B is broken, replace B.
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.