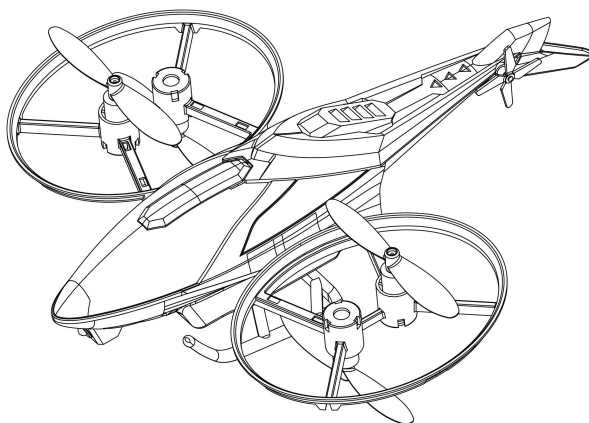




4D-M3

Suitable for ages over 14

Quadcopter operating instructions



Aerial 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 $\approx$ 2A that is the same as the product label.
12. Only use the charging cable configured by the factory.
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. As for the USB charging cable, the data cable provided by our company must be used to charge the battery, otherwise it will cause damage to the battery.
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:



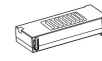
Aircraft ×1



Charging Cable ×1



Fan blade ×2

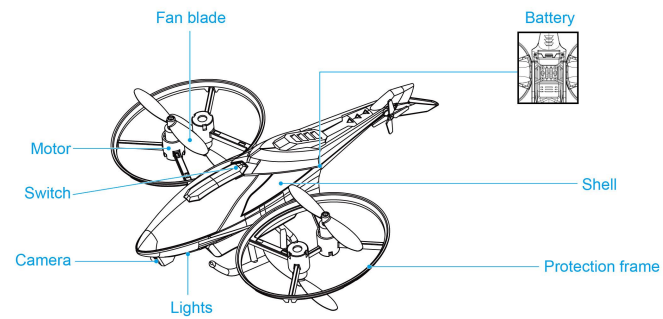


Lithium battery ×1

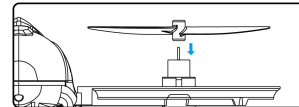
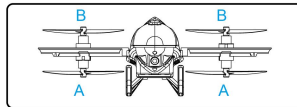


Operating Instructions ×1

2. Name of each part of aircraft:



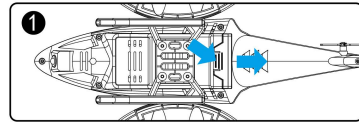
3 Wind blade installation diagram:



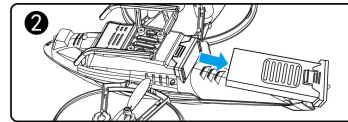
Please install the propeller in the correct direction. Install the mark B on the propeller on the motor of the aircraft, and the mark A on the motor under the aircraft. Please align the blade clamp with the iron pipe and install it firmly when installing.

 **Note:** The fan blade is printed with A/B. Please install it correctly according to the instruction, otherwise it cannot take off

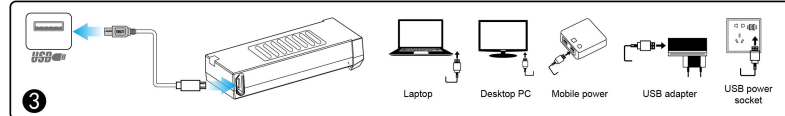
4 Lithium battery charging instructions:



4.1 Press the buckle under the aircraft battery.

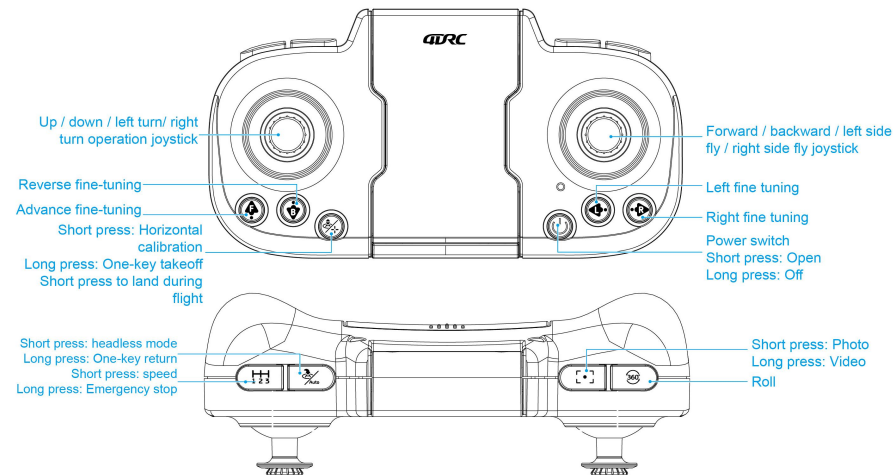


4.2 Take out the battery in the direction indicated by the arrow.



4.3 Charging: Insert the USB port of the USB charging cable into the USB port of the computer (or output: 5V=2A power adapter), and connect the other end of the USB charging cable to the battery charging socket. When charging, the USB light is always on and when the battery is fully charged, the USB light goes out.

5 Name of each part of the remote control:



Headless mode key: Press this key once to enter the headless mode, the indicator light of the drone body flashes, and press it again to exit the headless mode.

One-key return: Long press this key to go home, and long press it again to cancel.

6. Remote control battery installation:

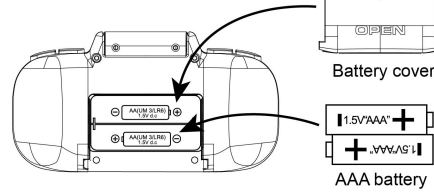
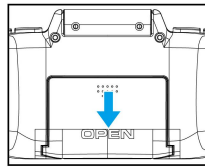
Battery installation:

6.1 Remove the battery cover.

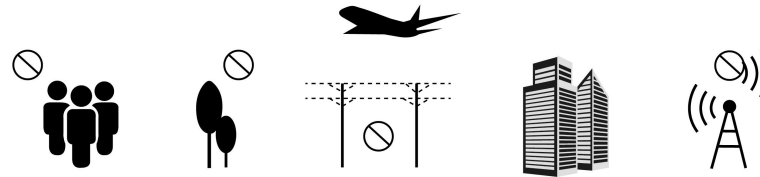
6.2 According to the polarity instructions on the battery compartment, remove the battery cover on the back and insert a 2X "AAA" battery (not included).

⚠ 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.



7 Environmental requirements before flight:



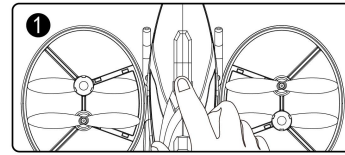
Please fly in an open outdoor environment with no rain or snow and wind less than Grade 3. Please stay away from crowds, trees, wires, tall buildings, airports and signal towers when flying. Do not fly in places with weak signals



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

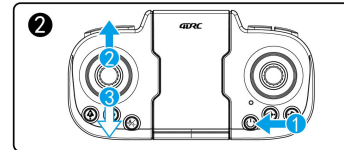
8. Pre-flight preparation instructions (using remote control):

8.1 Place the aircraft horizontally on the ground and long press the aircraft switch for 3 seconds. When the aircraft body light flashes, it will automatically enter the frequency matching state.



 **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 control (default mode)-press the power switch key on the remote control  (step 1) to turn on the remote control power, the indicator flashes, first push the throttle stick up to the top (step 2) and then to the bottom (step 3), when the body light is always on, it means that the frequency is successfully matched, and the remote control indicator is 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:

After completion of the frequency matching of the aircraft, place the aircraft on a flat ground, short press the calibration key , the remote control emits a beep, and the aircraft light start to flash quickly and being always on, which means the horizontal calibration is completed (Figure 1).

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

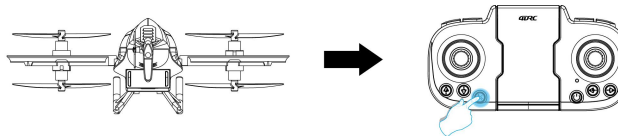


Figure 1

8.4 Start/stop

Push up the left joystick on the remote control (Figure 2). At this time, the aircraft motor starts and the blades rotate, short press the  key, the aircraft motor slowly stops rotating (Figure 3).

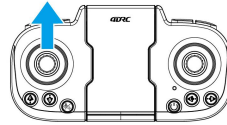


Figure 2

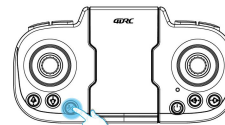


Figure 3

8.5 One-key take-off and landing

After the level calibration is completed, long press the remote control function key  (Figure 4), the aircraft will automatically rise to a height of about 1 meter, and maintain this altitude for stable flight; short press this key during flight, the aircraft will automatically land slowly on the ground.

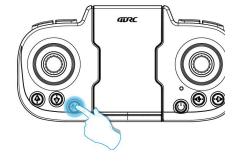
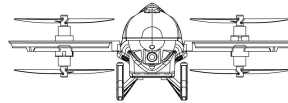


Figure 4

8.6 Emergency stop

When normal control is not possible during the flight, long press the speed key, the remote controller will make a beep, and the aircraft will immediately stop flying (Figure 5).

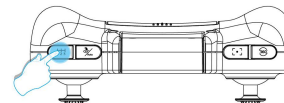
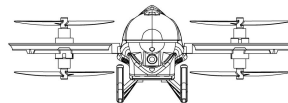
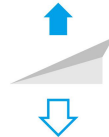
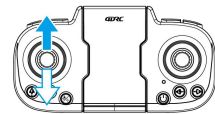
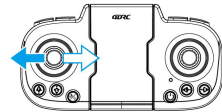


Figure 5

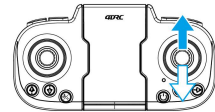
9. Remote control method:



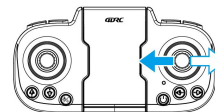
When the left joystick (throttle) is pushed up, the rotation rate of the main blade increases and the aircraft rises.
When the left joystick (throttle) is pushed down, the rotation rate of the main blade slows down and the aircraft descends.



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.

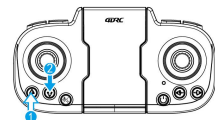


When the right joystick (rudder) is pushed up, the aircraft moves forward.
When the right joystick (rudder) is pushed down, the aircraft moves backward.

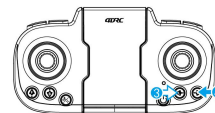


When the right joystick (rudder) is pushed to the right, the aircraft fuselage deviates to the right.
When the right joystick (rudder) is pushed to the left, the aircraft fuselage deviates to the left.

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.

10. Introduction of remote control function and operation:

10.1 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 prompt:** 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.

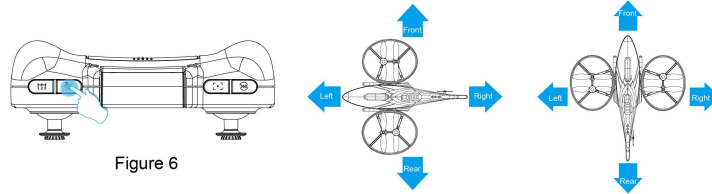


Figure 6

10.2 One key return

When the flying distance of the aircraft is too far, the aircraft can be recalled with the return function. When turning on the code-matching, the remote control must be directly facing the tail of the aircraft. During flight, press and hold the one-key home button  (Figure 7). When the remote control emits a "beep" sound, the aircraft will enter the one-key home function, and will automatically return to our side; when the joystick is operated in any form, the aircraft will be released from the home function.

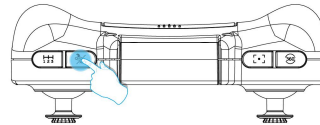


Figure 7

10.3 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 8).

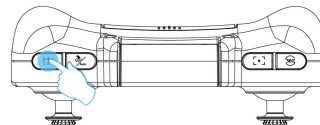


Figure 8

10.4 Roll

When the basic movements are very proficient, you can play some thrilling rolling actions. After flying the four-axis drone to an altitude of more than 3 meters, press the roll key  in the upper right corner of the remote control (Figure 9), and at the same time turn the right joystick left/right to roll the drone left/right. (Figure 10)

 **Note:** The rollover effect is best when the battery is fully charged.

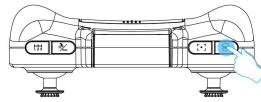


Figure 9

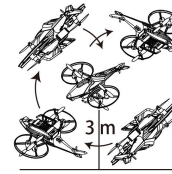


Figure 10

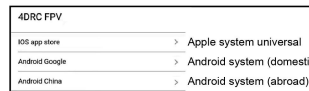
11. APP download and installation instructions:

11.1 Download and install the software

After scanning the code with mobile phone, choose "open and download in the browser"



1. Scan the QR code



2. Choose to download and install the APP on this page according to the mobile phone system

11.2 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 "4DRC GO" in mobile phone to enter the control interface. (Try to stay away from other signal source environments when flying)

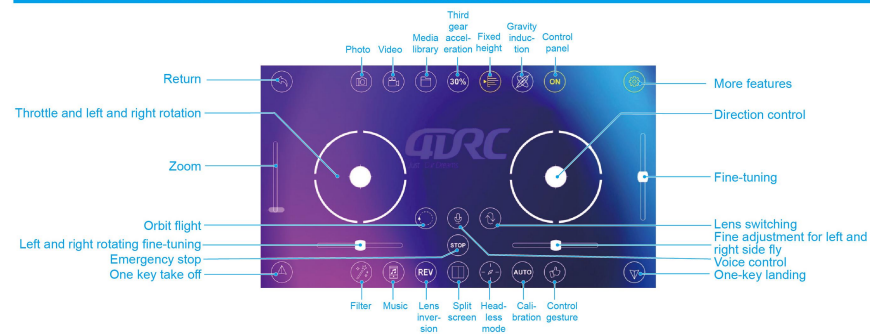


Open "4DRC FPV" software



Select START to enter the control interface

12. APP control interface function introduction:



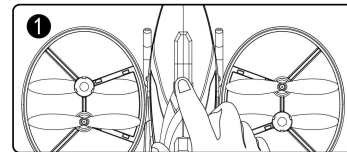


APP setting: When the control switch is turned on, click the button on the APP main page to adjust the parameters.

Special prompt: 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.

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

13.1 Place the aircraft horizontally on the ground and long press the aircraft switch for 3s. When the aircraft body light flashes, it will automatically enter the frequency matching state.



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

13.2 Turn on the WiFi function in the mobile device, select "4DRC*****" in the WiFi list (Figure 11), open the APP after connection. Click the joystick switch icon on the control interface, turn on the touch joystick, and the aircraft light will be always on, indicating that the frequency matching succeeded (Figure 12).



Figure 11



Figure 12

13.3 Horizontal calibration operation:

APP Application operation: click the "correction" icon in the app interface (Figure 13). 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.

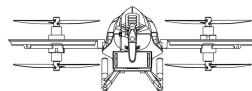


Figure 13

13.4 One-key take-off and landing

APP operation: Click the "one-key takeoff" icon in the APP control interface (Figure14), the aircraft will automatically rise to a height of about 1 meter, and maintain this altitude for stable flight; when you click this icon again during flight, the aircraft will automatically land slowly.

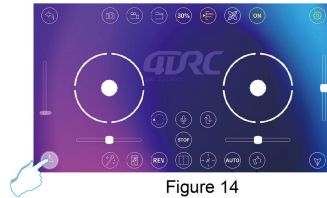


Figure 14

13.5 Emergency stop

APP operation: When the flight cannot be controlled normally, click the "emergency stop" icon (Figure 15) in the APP control interface, and the aircraft will immediately stop flying.

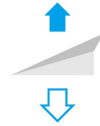


Figure 15



APP Application operation: before the aircraft takes off, please follow the steps in the above sequence: frequency matching (reference 13.1)→APP Application start frequency matching (reference 13.2)→ horizontal calibration (reference 13.3)→ one-key take-off and landing (reference 13.4)→ Emergency stop (reference 13.5)

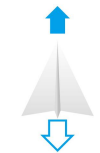
14. APP Application Control Method:



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.

15. APP Application function operation introduction:

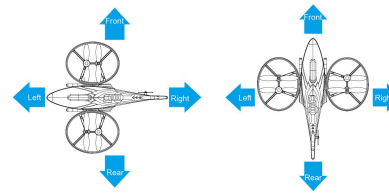
15.1 Headless mode

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 prompt: 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



15.2 Speed switching

APP operation: Click the "speed gear" icon in the APP control interface (Figure 17), you can also switch the aircraft speed.



Figure 17

15.3 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 face the lens with the front being at a position about 2-3M away and in a better light and background environment to perform the gesture recognition.



Yeah gesture photo

In about 3m front of the aircraft lens, make Yeah gesture with one hand in horizontal position; after the aircraft successfully recognizes the gesture, count down 3 seconds and take photos.



Palm gesture video-recording

In about 3m front of the aircraft lens, put five fingers together and lift one hand to horizontal position; after the aircraft successfully recognizes the gesture, it will start recording. The recording will end when the gesture is re-recognized (the time difference between the two recognitions shall be greater than 3s).

16. FAQ and solving guidelines:

Question	Reason	Solution
The aircraft does not respond	1. The aircraft enters the low voltage protection state 2. The remote controls in low power and the power indicator will flash.	1. Charge the aircraft 2. Replace the remote control battery.
Aircraft flight response is not sensitive	1. The remote control is in low power 2. The remote control with the same frequency is emitting interference.	1. Replace the battery. 2. Change to a place where there is no interference from the same frequency.
Deflection in the straight ahead under the headless mode	1. Head deviation caused by multiple collisions.	1. Redefine the front direction (headless function).
The blades of the aircraft rotate but cannot fly	1. Low battery 2. Blade deformation	1 Charge the battery 2. Replace the blade
The aircraft vibrates badly	Blade deformation	Replace the blade