



Suitable for ages over 14

Quadcopter operating instructions



• 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.
- 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.
- Children should be guided by adults when operating the aircraft. This product is prohibited to be operated by children under 14 years old.
- Please follow the instructions or packaging instructions to install and use correctly, and some parts should be assembled by adults.
- The product contains small parts, please place it out of the reach of children to prevent the risk of accidental eating or suffocation.
- 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.
- 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.
- 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:

















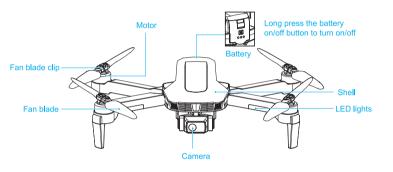
USB charging cable for the remote control ×1

of aircraft ×1

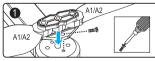
USB charging cable Fan blade ×4 Lithium battery ×1 Screwdriver ×1

Operating Instructions ×1

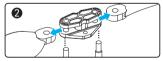
2. Name of each part of aircraft:



3. Wind blade installation diagram:



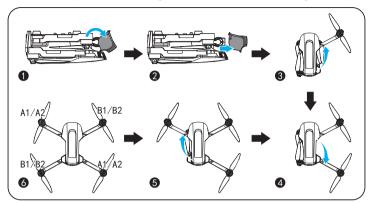
- 3.1 Unscrew the screw and remove the fan blade
- 1 Note: The fan blade is printed with letters of A1, A2, B1, and B2, in which, A1 = A2, B1 = B2, please install it correctly according to the diagram, otherwise it cannot take off.



3.2 Remove the connecting parts and take out and replace the fan blade from the fan blade clamp. (when A1/A2 fan blade is broken, replace A1/A2, and so do to B1/B2 fan blade, error in replacement will cause that it can't take off)

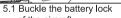
4. Unfolding steps of the aircraft: (It is in the storage state when it leaves the factory)

1. Remove the protective lock of the gimbal 2. Unfold the aircraft according to the steps



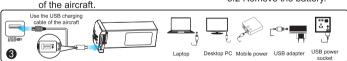
5. Lithium battery charging instructions:







5.2 Remove the battery.

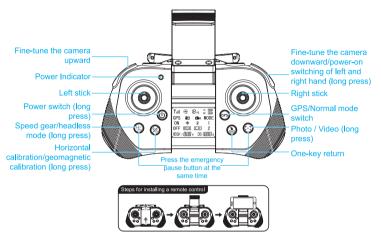


5.3 Charging: Insert the USB port of the USB charging cable into the USB port of the computer (or use the output: SV == 2A power adapter), plug the other end of the USB charging cable into the battery socket, and the red USB light of the aircraft will flash green when charging. When the battery is fully charged, the red light is off and the green light is always on, which means that the charging is completed.



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

6. Name of each part of the remote control:

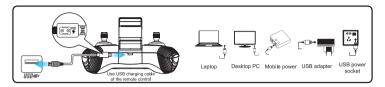


LCD display instructions:



- Mormal/GPS button: Press and hold this button for 3 seconds after frequency matching to switch between normal mode and GPS mode (it is by default in GPS mode after starting, and GPS icon is on, and GPS icon is off in normal mode).
- Switch between left-hand and right hand throttle: it is by default in left-hand throttle, press and hold the camera downward fine-tuning button, then press the power button to switch to right-hand throttle.

7. Battery charging instructions of the remote control:



Charging: Insert the USB port of the USB charging cable into the USB port of the computer, and connect the port of the other end of the USB charging cable to the battery socket. When charging, the power indicator of the remote control is green, and the power indicator turns off when it is fully charged.



8. APP download and installation instructions:

8.1 Download and install the software

For Google mobile phone, after scanning the code, choose to open and download in the browser





Google system: Please scan this QR code to install





Apple system: Please scan this QR code to install

8.2 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_4K_GPS" in the wireless network search list and connect; after connection, exit the setting option.
- ② Open the software icon "4DRC PRO" in mobile phone to enter the control interface. (Try to stay away from other signal source environments when flying).



9. APP control interface function introduction:







⚠ Note: After being proficient in flight operation, it is necessary to close the novice mode and set the flight distance and altitude before the aircraft can fly further!

10. Environmental requirements before flight:











Please choose to fly in an open air environment without rain and snow, where the wind force is less than 3. Please keep away from the crowd, trees, wires, tall buildings, airports and signal transmission towers. Do not fly in an indoor environment

11, Preparation instructions before flight

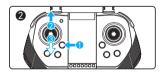
11.1 Frequency matching of the aircraft: Turn on the power of the aircraft, place it on a horizontal surface, and then the aircraft placed on the horizontal surface will automatically enter the frequency-matching state. The front blue light and the rear red light flash (the battery indicator is on).



11.2 Turn on the WiFi function in the mobile device, select "4DRC_4K_GPS" in the WiFi list, and open the APP after it connected successfully.



11.3 Turn on the remote control (default mode): long press the power switch button (() (step 1), turn on the power and the indicator flashes; push the throttle lever up to the top (step 2) and then to the bottom (step 3), and thus the frequency matching is successful, the UAV lights change from flashing to being permanently on.





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

11.4 Horizontal calibration operation:

Short press the horizontal calibration button $\frac{1}{100}$ on the remote control, the blue and red lights on the aircraft will flash quickly. The blue and red lights on the aircraft are always on, which means the calibration is completed, and the remote control emits a beep (Figure 1).

APP application operation: Click "Set more" icon in the APP interface, and follow the text prompt steps after entering, and it can also be horizontally calibrated (Figure 2).

⚠ Note: In calibration, the aircraft must be placed on a horizontal surface to complete the calibration.

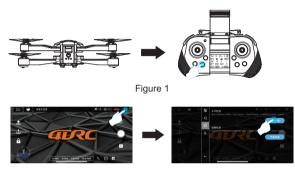
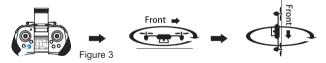


Figure 2

11.5 Geomagnetic calibration operation



- Long press the geomagnetic calibration key until the front blue light on the aircraft and the red light on the rear arm flash guickly.
- Rotate clockwise horizontally and pick up the aircraft, rotate it clockwise until the front blue light and rear red light flash slowly. The remote controller emits a "beep", which means the horizontal calibration is completed.
- Rotate clockwise and take up the aircraft with the tail upwards, rotate clockwise with its head vertically downwards until the front blue light and the red light on the rear arm are always on. The remote control emits a beep, which means the calibration is complete.
- Note: Set the aircraft in a correct direction, and the nose shall face forward. It must be placed on the horizontal plane.

APP application operation: In entering the interface of "Setting more", according to the text prompt and operation steps, you can also guide the calibration (Figure 4).





Figure 4

11.6 Star search status (In GPS mode by default)

When the remote control is in GPS mode, GPS icon will be ON, which means that the GPS enters the star search state. When the red tail light of the aircraft flashes, it means that the star search is successful, and the remote control will emit a prompt of "beep". The aircraft can be unlocked at this time (Figure 5).

⚠ Note: The first time of star search needs to wait at least a few minutes, and the search signal reaches about 10 stars before it can take off.



11.7 Start/stop (GPS mode)

Push the left and right joysticks on the remote control outward to unlock, (if the star search is unsuccessful, it cannot be unlocked and started) (Figure 6). At this time, the aircraft can take off normally. After taking off, all the indicators of the aircraft are always on.

APP operation: Click "One Key Unlock" icon (Figure 7) in APP control interface, the one-key unlock function can also be achieved.



11.8 Flight and landing

When unlocking is complete, push the throttle stick of the remote control upward, and the aircraft will take off. Pull the throttle stick of the remote control to the lowest position, and the aircraft will automatically land slowly (Figure 8).

APP application operation: Click the "one-button take-off" icon (Figure 9) in the control interface of APP, it can also take off; during the flight, click this icon again, the aircraft will automatically land slowly.



Figure 8 Figure 9

11.9 Normal mode (optical flow positioning); the GPS icon on the LCD screen is OFF

The aircraft enters the normal mode: when the aircraft flies with a good ground light, optical flow will assist. Hovering in a place, it will be normal to drift about 1 meter according to ground conditions and height conditions.

11.10 Start / stop (common mode needs to be turned on for indoor operation)



- Long press the GPS button on the remote control (on the remote control (GPS on the LCD screen will switch to OFF) will enter the normal mode (Figure 10)
- Push the left and right joysticks on the remote control outward to unlock (Figure 11)
- Then push up the left joysticks (Figure 12)



Before flying, please perform the following steps in the above order: open (refer to 11.1) → link to WIFI (refer to 11.2) → remote control to start frequency matching(refer to 11.3) → horizontal calibration (refer to 11.4) → geomagnetic calibration (refer to 11.5) → Star search status (in GPS mode by default) (reference 11.6) → start/stop (GPS mode) (reference 11.7) → takeoff and landing (refer to 11.8) → normal mode (optical flow positioning) (refer to 11.9) → start/stop (it needs to open the normal mode for indoor operation) (refer to 11.10)

12. Control method:

APP application operation: Enter the APP control interface and click the "more functions" icon to open the "joystick on/off" icon, you can see the operation joystick on the interface. The operation method is as follows:







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 hackward





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

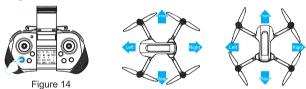


When the aircraft is in 1m from the ground, the aircraft will become unstable due to the influence of its own blade vortex, which is called "ground effect response". The lower the height of the aircraft, the greater the effect of the ground effect response.

13. Introduction to the APP application and remote control function operation:

13.1 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 14). 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.



13.2 One key return

When the flying distance of the aircraft is too far, you can use the home function to recall the aircraft. During flight, press the one-key return button <a> (Figure 15). After the remote control emits a beep, the aircraft enters the one-key home return, and it will automatically return to us; when you want to exit the "home return", press the "home button" again to exit the "home return".

APP operation: Click the "one-key return" icon (Figure 16) in the APP control interface, you can also return the aircraft; during the return flight, click this icon again to cancel the return.



Figure 15

Figure 16



Runaway return: When the signal of the remote controller is interrupted for about 4s, the aircraft will automatically return to the place where there is a signal and stop. Low battery return: when the aircraft is in low battery electricity, it will forcefully return to a place that is 20m above the take-off point. The return flight cannot be cancelled during the low battery return.

13.3 Speed switching

When the aircraft takes off, it is in low-speed mode (shifting gears) by default; lightly press the remote control, it will emit two sounds of "beep", it will enter "high-speed gear" (Figure 17).

APP operation: Click the "More Functions" icon (Figure 18) in the APP control interface, and the flight speed can also be switched (Figure 19).

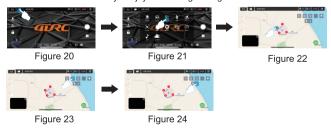


Figure 17 Figure 18 Figure 19

13.4 Waypoint flight mode

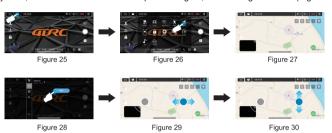
① In GPS mode, click the "More Functions" icon (Figure 20) in the APP control interface to enter the multi-point flight (Figure 21). At this time, the interface changes from the image transmission page to the map page. On the map page, click to set the track range of the segmented waypoints or continuous waypoints (Figure 22). During the setting, if the track waypoints are too dense, you can click the delete icon to delete all the waypoints (Figure 23).

② After setting of the waypoint, click the send icon (Figure 24), the aircraft will fly to all waypoints from the initial point to complete the preset flight trajectory. The direction of the aircraft can be controlled by the joystick during the flight.



13.5 Orbital flight mode

In GPS mode, click "More Features" icon in the APP control interface (Figure 25) to enter the orbit flight mode (Figure 26), the aircraft will automatically orbit in a radius (Figure 27), and the radius can be adjusted on the APP (Figure 28). At this time, push the right direction joystick to fly left or right (Figure 29) at the default speed, the orbital speed can be adjusted. Push the right direction joystick front or rear, the orbit radius can be adjusted, and when the orbit button is pressed again, the orbit flight will end (Figure 30).



13.6 GPS follow mode

In GPS mode, click the "More Functions" icon (Figure 31) in the APP control interface to enter the follow (Figure 32). The aircraft will use the distance from the current position to the operator (mobile phone or IPAD) device as a reference, and move by tracking changes in the location of mobile devices. In following, lightly press the red & icon to cancel the following.



13.7 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).

13.8 MV interface

Click the "filter interface" icon (Figure 33) 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 34). After the recording is completed, the synthesized short video or picture will be saved to the media library (Figure 35).

⚠ Tips: 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 33 Figure 34 Figure 35

14. FAQ and solving guidelines:

Question	Reason	Solution
The aircraft indicator flashes without any response	The GPS of the aircraft doesn't search star successfully The aircraft has insufficient power	Move the aircraft to an open place and search for stars again Charge the battery
The blades of the aircraft rotate but cannot fly	Low battery Blade deformation	Charge the battery Replace the blade
The aircraft vibrates badly	Blade deformation	Replace the blade
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