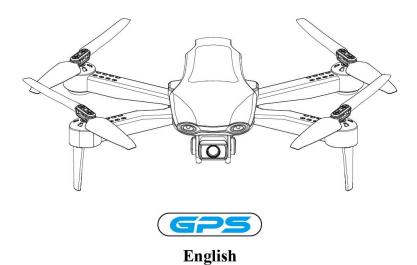




For people over 14 years old

4-AXIS AEROCRAFT INSTRUCTION MANUAL



■ It is forbidden to use any model and Aerocraft within 10km on the sides of the airport runway centerline, within 20km from both ends of the runway, and on civil aviation routes to meet the requirements of electromagnetic environment for aeradio. Any model and Aerocraft shall not be allowed in the no-fly zones specified by the relevant state departments.

WARNING

- The packaging and instruction manual provide important information and shall be kept for future reference.
- You are responsible for ensuring that this aerocraft will not cause any bodily injury and property damage.
- 3.The commissioning and assembly of the aerocraft shall be strictly in accordance with the operation manual. Please be sure that the aerocraft is kept a distance of 2-3m away from the operator and other persons when flying, to prevent the aerocraft from hitting man's head, face and body when flying and landing, and causing injuries.
- 4.Our company and the seller bear no responsibility for any loss, damage or personal injury due to improper use or operation.
- 5.Children over 14 years old can operate this aerocraft under the guidance of adults, and any children under 14 years old shall not be allowed to operate this product.
- 6.Please correctly install and use this product according to the Instruction Manual and Packing Instruction, some parts shall be assembled by adults.
- This product contains small parts, please keep it out of reach of children to prevent accidental eating or suffocation.
- 8.It is forbidden to operate it on the road or sodden ground to prevent any accident.
- 9. Please put the packing materials away timely to avoid harm to children.
- 10.Do not disassemble or refit the aerocraft to avoid any faults of that.
- 11. The USB charging cable shall be plugged into the specified power supply 5V = 2A as marked on the product.
- 12. Only the original USB charging cable is allowed to be used.
- 13. The USB charging cable is not a toy.
- 14. The rechargeable battery shall be charged under the guidance of adults, and shall be kept away from the inflammables when charging.
- 15. Short circuit or extrusion of the battery is not allowed, as which may cause an explosion.
- 16.Do not mix different types of batteries.
- 17. The aerocraft uses the 7.4V rechargeable lithium battery that shall be removed for charging.
- 18.Do not short-circuit, disassemble or throw the battery into the fire; do not place the battery in a hot place (such as fire or area nearing an electric heating device).
- 19. The aerocraft shall be used in the place far away from other electrical equipment and magnetic objects to avoid mutual interference.
- 20.Please keep a safe distance from the high-speed rotating propeller to avoid wringing and cutting.
- 21. The motor is a heating component, please do not touch it to avoid burns.
- 22. The light emitting diode has laser radiation, please do not directly transmit beam.
- 23.Do not use it near your ears! Misuse may cause hearing damage.
- 24.The rechargeable battery shall be charged by the USB charging cable that provided by the company, otherwise, the rechargeable battery may be damaged.
- 25.To meet the requirements of electromagnetic environment for aeradio, it is forbidden to use the remote controller of the model in the relevant regions during the radio control specified by the relevant state departments.
- 26. The battery shall be removed when the battery of the aerocraft has run out, and then charge it after 30 minutes, otherwise, the battery may be damaged.













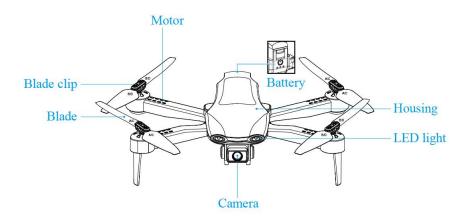
Aerocraft \times 1

USB charging cable × 1

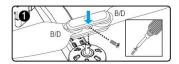
Blades \times 4 Lithium battery \times 1 Screwdriver \times 1

Instruction Manual \times 1

2. Component Name of Aerocraft:

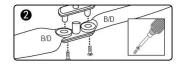


3. Installation Drawing of Blades:



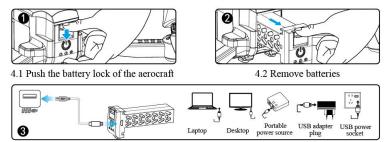
3.1 Unscrew the screw and remove the blades.

⚠ Notes: The blades are imprinted with letters of A, B, C and D, A=C, B=D, please correctly install it according to the drawing, otherwise, the aerocraft cannot take off.



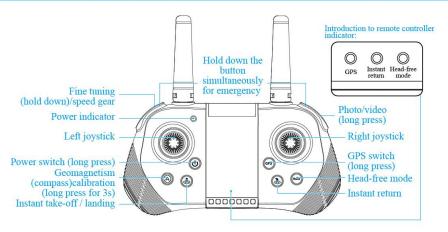
3.2 Unscrew the screw to separate two blades from the connecting parts to replace the blades. (replace the damaged B/D blade with B/D blade, and replace the damaged A/C blade with A/C blade, any wrong replacement will cause that the aerocraft fails to take off.)

4. Charging Instructions of Lithium Battery:



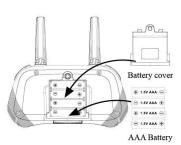
4.3 Charging: Insert the USB interface of the USB charging cable into the USB ports on the computer (Or use the output as: 5V = 2A power adapter), and connect the other side of the USB interface to the battery socket. When charging, the aerocraft's USB red indicator light is on and green indicator light is flashing; when the battery is fully charged, the red indicator light is out and the green indicator light is on, indicating the charging is completed.

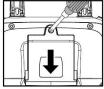
5. Component Name of Remote Controller:



- © Common / GPS button: After matching the frequency, long press this button for 3s to select the common mode and GPS mode (default GPS mode, the GPS indicator light is on, if select the common mode, the GPS indicator light is out).
- Head-free mode button: Press the button once for head-free mode, and the head-free indicator light is on, press the button again to exit the head-free mode, the indicator light is out.
- (a) Return button: Press the button once for return, and the return indicator light is on. Press the button again to cancel return, and the indicator light is out.

6. Battery Installation of the Remote Controller:





Battery installation:

4.1 Press the battery cover button by screwdriver to remove the battery cover.
4.2 According to the polarity instructions on the battery holder, remove the battery cover and install 4 "AAA" batteries (not attached).

Notes:

- When installing batteries, please pay attention to the anode and cathode of batteries and that marked on the battery holder.
- 2. Please do not mix new and old batteries.
- 3. Please do not mix different types of lithium batteries.

Precautions for charging:

- Please do not put the charged batteries in the in places with high temperature, such as naked flame
 or electric heating devices to avoid damage or explosion.
- •Do not impact or knock hard objects with batteries.
- Do not disassemble batteries.
- •Do not soak batteries in water. Store the batteries in a dry place.
- Charge batteries under the monitoring of adults.

Warning: A

When the aerocraft is not in use, please disconnect the battery plug from the aerocraft's circuit board power connection, to avoid battery damage.

7. Downloading And Installation Instructions Of The App:

7.1 APP downloading and installation

For Android system, scan the QR code, open the website in the browser and download the software





iphone OS: Please scan the QR code for installation





Android system: Please scan the QR code for installation

7.2 Link instructions

- ①Turn on the power of the aerocraft, access the "Settings" (mobile phone or IPAD), open the wireless network, find the device "4DRC-4K-GPS *****" in the wireless network search list and connect the device, after the connection, exit the Settings.
- ② Open the "4DRC PRO" icon in your mobile phone to enter the control interface. (keep away from other signal sources when operating the aerocraft)



8. Function Introduction Of App's Control Interface:





⚠ Note: Turn off beginner mode with proficient flight operations, then set flight distance and altitude, so that the aerocraft can fly farther!

9. Environment Requirement Before Flight:











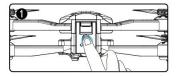
Please operate the aerocraft in an outdoor open place without rain or snow and under the wind force below grade 3, and keep away from crowds, trees, power lines, tall buildings, airports, and signal towers. Do not operate it indoors or in the place with poor GPS signal.

10. Flight Preparation



Warning: Please make sure that the aerocraft / remote controller must be fully charged, otherwise it cannot take off.

10.1 Turn on the power of the aerocraft, put it on the horizontal place for automatic frequency matching, the front white indicator light and the red indicator light on the rear arm are flashing (the battery indicator light is on)

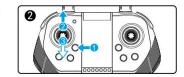


⚠ Notes: Adjust the aerocraft direction to make the head face forward, and the aerocraft must be placed on the horizontal place.

10.2 Open the WiFi function in the mobile phone, and select the "4DRC-4K-GPS*****" in WiFi list, connect the device and then open the App.



10.3 Turn on the remote controller (default mode), long press the ① "ON/OFF" button on the remote controller (Step 1), the power indicator light is on. Push the throttle rod up to the top (Step 2) and then down to the bottom (Step 3). When matching frequency is successfully matched, the UAV light is on instead of flashing.



10.4 Horizontal calibration:

Push the left and right operating rods on the remote controller to the lower left corner, the white and red indicator lights on the aerocraft are flashing quickly. When the white and red indicator lights on the aerocraft are on, the horizontal calibration is completed, the remote controller beeps (Figure 1).

Operations of the APP: Click "More settings" icon in the APP interface for horizontal calibration according to the text prompt. When the calibration is completed, automatically enter the next operation (Figure 2).

\(\Delta \) Notes: The calibration can be completed only when the aerocraft is placed on the horizontal place.

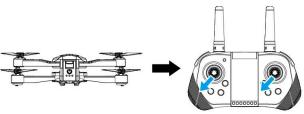
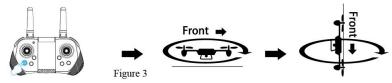


Figure 1



Figure 2

10.5 Geomagnetic calibration



- 1. Long press " @ geomagnetic calibration" button until the front white indicator light and the red indicator light on the rear arm are flashing quickly.
- 2. Horizontally rotate the aerocraft clockwise take the aerocraft horizontally and rotate it clockwise until the front white indicator light and rear red indicator light are slowly flashing, when remote controller beeps, the horizontal calibration is completed.
- 3. Rotate the aerocraft clockwise with the tail upward take the aerocraft with the head downward, rotate the aerocraft clockwise until the front indicator light and the red indicator light on the rear arm is on, when remote controller beeps, the compass calibration is completed.

Operations of the APP: Enter the "More settings" interface, complete the compass calibration according to the text prompt and operating steps (Figure 4). When the compass calibration is completed, automatically enter the flight operation interface.



Figure 4

10.6 Satellite search state (default GPS mode)

When the remote controller is under GPS mode, the GPS indicator light is on, indicating that the GPS enters the satellite search state. When the red tail light of the aerocraft is flashing, the satellite search is completed, and the remote controller beeps, the aerocraft can be used (Figure 5).

⚠ Notes: It takes at least several minutes for the first satellite search, when the satellite search signal reaches at least Level 10, the aerocraft can take off.

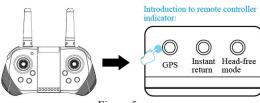


Figure 5

10.7 Start/Stop (GPS mode)

Push the left and right operating rods on the remote controller outward for unlocking the aerocraft (the aerocraft cannot be unlocked for operation if the satellite search is uncompleted) (Figure 6). Under this condition, the aerocraft can take off, and all indicator lights will be on after take off (Figure 7).

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



Figure 6

Figure 7

10.8 Instant take-off/landing

After unlocking the aerocraft, lightly press (a) "Instant take-off/landing" button on the remote controller (Figure 8), when the aerocraft automatically fly to about 1m, maintain a stable flight at this altitude; press this button again, the aerocraft will automatically land on the ground slowly.

Operations of the APP: Click the "instant take-off" icon (Figure 9) in the APP interface to implement this function; during the flight, click the icon again, the aerocraft will automatically land on the ground slowly.

Figure 9

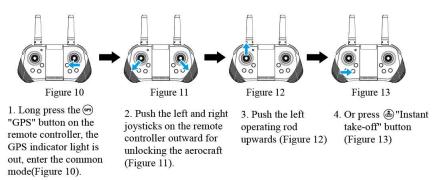


Figure 8

10.9 Common mode (optical flow positioning)

The aerocraft is under common mode: When the aerocraft flies on good ground, optical flow will assist the aerocraft, to hover in a place. According to the ground conditions and flight height, an excursion of about 1m is a normal condition.

10.10 Start/Stop (common mode for indoor operation)

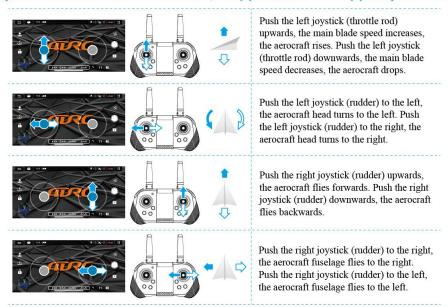




Warning: Before taking off, operate the aerocraft in accordance with the following steps. Frequency Warning matching (refer to 10.1) \rightarrow connect WIFI(refer to 10.2) \rightarrow Remote control state of the state of th matching (refer to 10.1) \rightarrow connect WIFI(refer to 10.2) \rightarrow Remote control start frequency Satellite search state (default GPS mode) \rightarrow (refer to 10.6) \rightarrow Start/Stop (GPS mode) (refer to 10.7) → Start/Stop (common mode) (refer to 10.8) → Common mode (optical flow positioning) (refer to 10.9) → Start/Stop (common mode for indoor operation) (refer to 10.10)

11. Operation Methods:

Operations of the APP: Enter APP's control interface, click "joystick ON/OFF" icon for joystick operation modes:





Warning: When the aerocraft is lower than 100CM from the ground, the flight will become unstable due to the blade vortex, namely, the "ground effect". The lower the flight height of aerocraft is, the greater the ground effect is.

12. App Operation And Introduction Of Remote Controller Functions:

12.1 Head-free mode

The front of the aerocraft during frequency matching is the default front under head-free mode; if you want to adjust the default direction, please restart the aerocraft for frequency matching and keep short press of the "head-free mode" button (Figure 14) on the remote controller, and lightly re-press this button when exiting. A Special tips: Please adjust the aerocraft and make it aligned with the straight line, so that the gyroscope can automatically detect the straight line to achieve straight flight under head-free mode.



12.2 Instant return

Press (a) Instant return", the aerocraft will fly back above the geomagnetic calibration position (Figure 15), (if the flight height is lower than the safety height, the aerocraft will rise to the safety height), and land the ground slowly. In case of any obstacles, re-press the "Instant return" button to turn off the function, and manually control the rudder to avoid obstacles, then press the throttle rod down to land the aerocraft. Operations of the APP: Click the "Instant return" icon (Figure 16) in the APP's control interface to make the aerocraft fly back; During the return, re-click this icon to cancel the return.



Figure 15 Figure 16



Out-of-control return When the remote controller's signal is interrupted for about 4s, the aerocraft will automatically fly back to the place with relevant signal. Low-battery return In case of low battery, the aerocraft will be forced to return to the place about 20 meters above the takeoff place. During the return under low battery, the return cannot be cancelled.

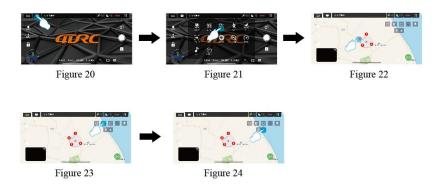
12.3 Speed switching:

(#) When aerocraft take off, it flies under low speed mode (3 gears) by default, lightly press the remote controller, "di" for low speed gear, "di di" for medium speed gear, and "di di di" for high speed gear (Figure 17). Operations of the APP: Click the "More settings" icon (Figure 18) in the APP's control interface to switch the flight speed of the aerocraft (Figure 19).



12.4 Waypoint flight mode

- ① Under GPS mode, click the "More settings" icon (Figure 20) in the APP's control interface to enter the multi-place flight (Figure 21), then the interface is converted from the image transmission page to the map page. On the map page, click to set the track range composed of a single waypoint or continuous waypoints (Figure 22). During the setting, if there are too many track waypoints, you can click the Delete icon to delete all waypoints (Figure 23).
- ② After setting the waypoints, click the Send icon (Figure 24), the aerocraft will automatically fly to all waypoints from the initial point to complete the preset flight path. You can control the aerocraft direction through joystick during the flight.



12.5 Circle flight mode

Under GPS mode, click the "More settings" icon (Figure 25) in the APP's control interface to enter circle flight (Figure 26), the aerocraft will automatically make a radius (Figure 27) that can be adjusted in the APP (Figure 28). At this moment, push the right rudder to the left or right to make the aerocraft fly to the left or right (Figure 29) to achieve the circle flight, and the flight speed is adjustable. Push the right rudder forward and backward to adjust the radius for circle flight. Re-press the circle flight button to stop the circle flight (Figure 30).



12.6 GPS following mode

Under GPS mode, click the "More settings" icon (Figure 31) in the APP's control interface to enter following mode (Figure 32). The aerocraft will automatically fly with the moving of mobile device based on the distance from the current location of the aerocraft to the controlling device (mobile phone or IPAD). During the following mode, lightly press the GPS following button to cancel the following mode.



Figure 31 Figure 32

12.7 Gesture recognition

Under GPS mode, when facing the front lens of the camera, you can enable the Timer or Auto REC of the aerocraft through the following gestures.

⚠ Special tips: Please keep about 3m away from lens and the face it in the place with good light to conduct gesture recognition operations.



Photographing by Yeah gesture

About 3m in front of the aerocraft lens, rise single hand horizontally and make Yeah gesture; when the aerocraft successfully recognizes this gesture, it will take pictures after 3s.



Palm gesture for Auto REC

About 3m in front of the aerocraft lens, rise single hand horizontally with closed 5 fingers; when the aerocraft successfully recognizes this gesture, it will record video immediately. Make this gesture again, it will stop recording this video (the time difference between the two recognitions shall be greater than 3s).

12.8 MV interface

Click the "Filter interface" icon (Figure 33) in the APP's control interface to select your favorite filter effects, click the Record icon to record MV (Figure 34). When it is finished, the composite short video or pictures will be saved to the media library (Figure 35).

⚠ Special tips: During recording, you can rotate the screen or change filter effects, turn on the joystick ON/OFF button to control the flight direction and range of the aerocraft.



13. Solutions To Common Problems:

Problems	Causes	Solutions
Aerocraft's indicator light flashes, but the aerocraft does not work	1. Unsuccessful GPS satellite search of the aerocraft 2. Low battery of the aerocraft	Place the aerocraft to the open place and search satellite again Charge the battery
The aerocraft cannot take off with the rotated blades	Low battery power Distorted blades	 Charge the battery Replace the blades
Badly shaky aerocraft	Distorted blades	Replace the blades
The aerocraft cannot fly smoothly even though the fine tuning is adjusted to the minimum	Distorted blades Poor motor	Replace the blades Replace the motor
The aerocraft is out of control after the impact	The three-axis acceleration sensor loses balance due to the impact.	Stand the aerocraft for 5-10s, or correct it with correction gyroscope.