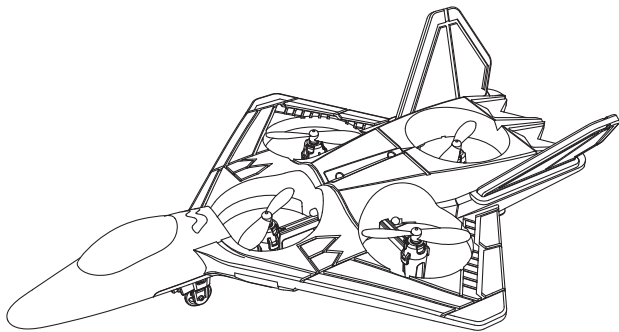# 4DRC
Just Four Dreams

4D-V3I

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⎓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:

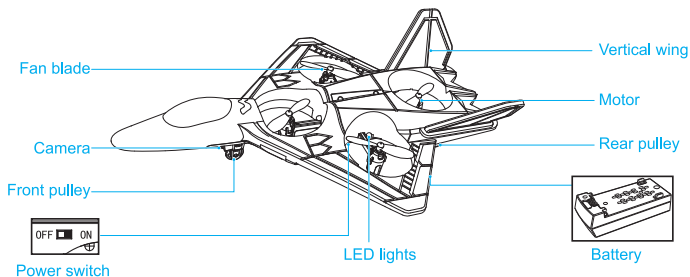Aircraft ×1   USB charging cable ×1   Fan blade ×4   Lithium battery ×1   Screwdriver ×1   Remote control ×1   Operating Instructions ×1
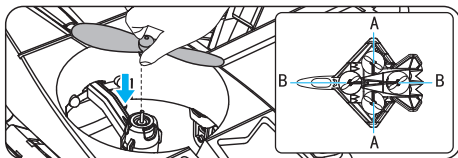
2. Name of each part of aircraft:

Fan blade

Camera

Front pulley

OFF ■ ON

Power switch

LED lights

Vertical wing

Motor

Rear pulley

Battery

## 3. Wind blade installation diagram:

A

B ——— B

A

Pinch the small cap in the middle of the fan blade and take out. When replacing, press down on the motor shaft, being careful not to deform.

⚠ 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
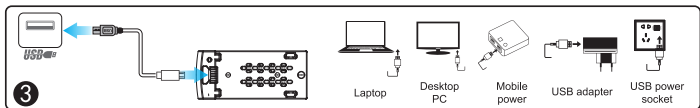
4. Lithium battery charging instructions:

❶
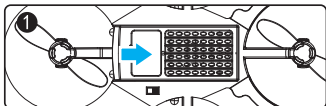
4.1 Slide upwards according to the diagram to open the battery

❷
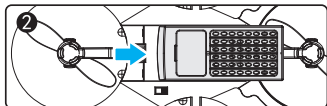
4.2 disconnect the aircraft from the battery power port and then remove the battery.
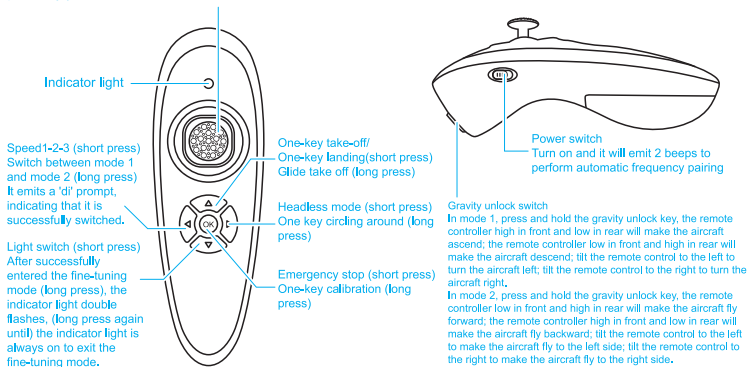
02

❸

| | Laptop | Desktop PC | Mobile power | USB adapter | USB power socket |

4.3 Charging: Insert the USB port of the USB charging cable into the computer USB port (or use 5V ⎓ 2A power adapter), and connect the other end of the USB charging cable to the battery socket. When charging, the red indicator on the module battery is on, and when the battery is fully charged, the red indicator light goes out, which means that the charging is complete.
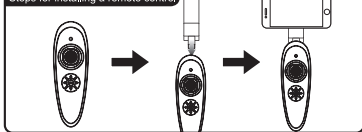
Warning It must be charged with the aircraft charging cable provided by the factory, and other charging cables cannot be used. Be sure to remember to avoid accidents.
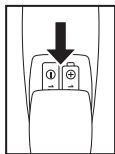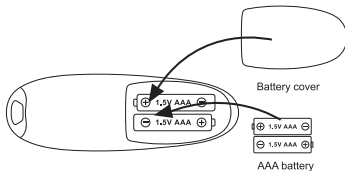
5. Name of each part of the remote control:

In mode 1, the front, back, left, and right of the joystick correspond to the front, back, left, and right flight of the aircraft. In mode 2, push ahead of the joystick is to ascend, push back is to descend, move left is to turn left, and move right is to turn right. In any mode, press vertically once to scroll right, and press vertically twice scroll left, and so on. In any mode, push the joystick forward once to calibrate, twice to start, and three times to take off.

Indicator light

Speed 1-2-3 (short press)
Switch between mode 1 and mode 2 (long press) It emits a 'di' prompt, indicating that it is successfully switched.

Light switch (short press) After successfully entered the fine-tuning mode (long press), the indicator light double flashes, (long press again until) the indicator light is always on to exit the fine-tuning mode.

One-key take-off/ One-key landing(short press) Glide take off (long press)

Headless mode (short press) One key circling around (long press)

Emergency stop (short press) One-key calibration (long press)

Power switch
Turn on and it will emit 2 beeps to perform automatic frequency pairing

Gravity unlock switch
In mode 1, press and hold the gravity unlock key, the remote controller high in front and low in rear will make the aircraft ascend; the remote controller low in front and high in rear will make the aircraft descend; tilt the remote control to the left to turn the aircraft left; tilt the remote control to the right to turn the aircraft right.
In mode 2, press and hold the gravity unlock key, the remote controller low in front and high in rear will make the aircraft fly forward; the remote controller high in front and low in rear will make the aircraft fly backward; tilt the remote control to the left to make the aircraft fly to the left side; tilt the remote control to the right to make the aircraft fly to the right side.

Steps for installing a remote control

03

Battery cover

AAA battery

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).

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 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:
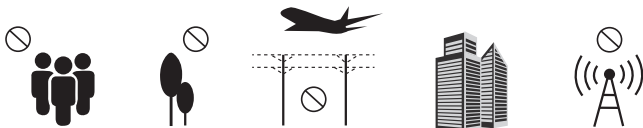
Please choose an outdoor and open environment with no rain and snow and low wind. Please stay away from crowds, trees, wires, tall buildings, airports, and signal transmission towers when flying. Do not fly in a too small indoor environment with lots of things.

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

8. Preparation instructions before flight (using remote control):

8.1 Turn on the power supply 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 fuselage indicator light will flash.

⚠ Note: Set the aircraft in a correct direction, and the nose shall face forward. It must be placed on the horizontal plane.
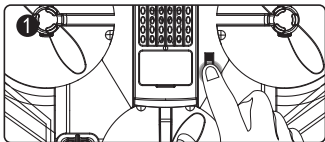
8.2 Push the power switch of the remote control right, the remote control will emit "di di" sounds, and the aircraft indicator light changes from flash to constant on, indicating successful frequency alignment.

Warning The aircraft/remote controller must ensure sufficient power or it cannot take off!
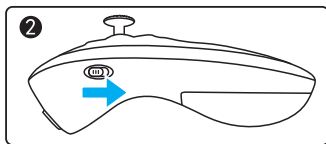
8.3 Horizontal calibration operation:

Method 1: Long press the OK key to calibrate. (Figure 1), Method 2: In any mode, push the joystick forward to calibrate (Figure 2). The LED lights on the aircraft will double flash. The calibration of the LED light on the aircraft is completed, and the remote control emits a "di" sound (as shown in Figure 1).
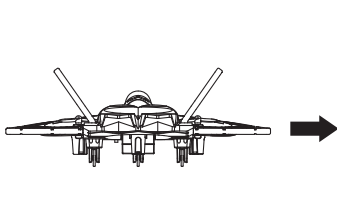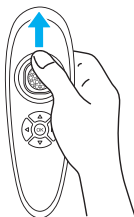

Figure 1   Figure 2

8.4 Start/stop

Push the left control lever on the remote control upward (Figure 3). 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 OK key, the aircraft will stop flying (Figure 4).

⚠ 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.
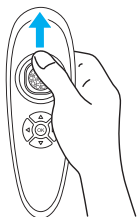

Figure 3   Figure 4

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 5), the aircraft will automatically rise to a height of about 2 meter, and keep flying at this height; when this function key is pressed again, the aircraft will automatically land on the ground slowly.
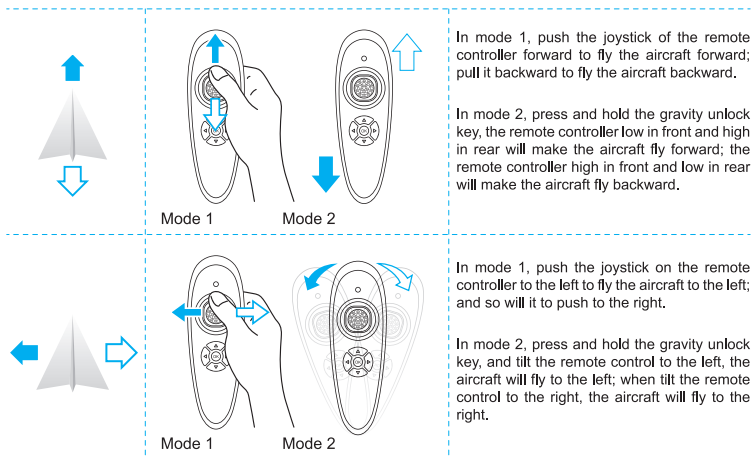

Figure 5

 Operate the aircraft with the remote control. Before taking off, please operate according to the above sequence: Turn on (refer to 8.1)→ frequency matching of the remote control starts (refer to 8.2)→horizontal alignment (refer to 8.3)→ start/stop (refer to 8.4)→ one-button taking off and landing (refer to 8.5)
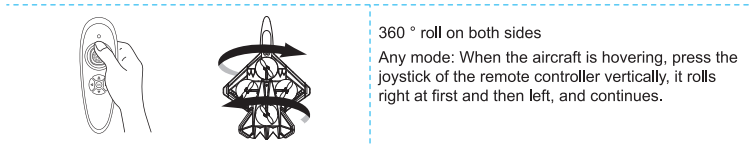
9. Introduction of remote control function and operation:

Mode 1   Mode 2

In mode 1, after one-button takeoff, the drone hovers to about 2m, press and hold the gravity unlock key, the remote controller low in front and high in rear will make the aircraft descend; the remote controller high in front and low in rear will make the aircraft ascend.

In mode 2, push the joystick of the remote controller forward to ascend the aircraft; pull the joystick backward to descend the aircraft.

Mode 1   Mode 2

In mode 1, press and hold the gravity unlock key, tilt the remote control to the left to turn its head left; tilt to the right to turn the aircraft's head right.

In mode 2, push the joystick of the remote controller to the left to turn the aircraft to the left; and push the joystick to the right to turn the aircraft to the right.

In mode 1, push the joystick of the remote controller forward to fly the aircraft forward; pull it backward to fly the aircraft backward.

In mode 2, press and hold the gravity unlock key, the remote controller low in front and high in rear will make the aircraft fly forward; the remote controller high in front and low in rear will make the aircraft fly backward.

Mode 1   Mode 2

In mode 1, push the joystick on the remote controller to the left to fly the aircraft to the left; and so will it to push to the right.

In mode 2, press and hold the gravity unlock key, and tilt the remote control to the left, the aircraft will fly to the left; when tilt the remote control to the right, the aircraft will fly to the right.

Mode 1   Mode 2

9.2. 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.

360 ° roll on both sides

Any mode: When the aircraft is hovering, press the joystick of the remote controller vertically, it rolls right at first and then left, and continues.

9.3 Headless mode

The front of the aircraft during power on and frequency matching are defaulted to the front of headless mode; If you need to adjust the direction, please re-power and frequency matching again. Short press the right direction key on the remote control to enter headless mode, and a di will emit every 6s to indicate that it is in automatic positioning mode (Figure 6). Pushing any direction key will cause the aircraft to leave the user (Figure 7). Please lightly press this key again to exit.

⚠ 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.
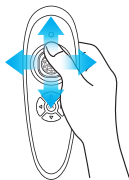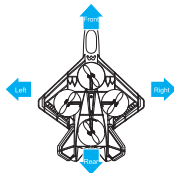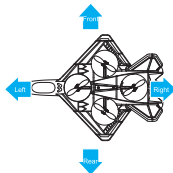
Figure 6   Figure 7

9.4 Speed switching

When the aircraft takes off, it defaults to low speed mode (3 gear switching). Short press the left direction key ◀ on the remote control to emit a "di" sound, which is to select low speed, two sounds of "di di" is to select medium speed, and three sounds of "di di di" to select high speed (Figure 8).
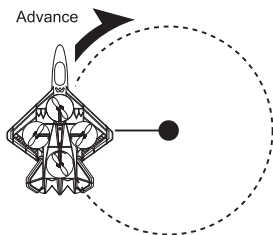

Figure 8

9.5 one key circling around

Long press the right arrow button ▶ on the remote control to enter one click hover mode (Figure 9), and the aircraft nose will hover with the current position of the aircraft as a fixed radius.
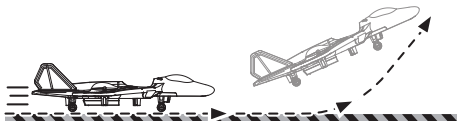

Advance

Figure 9

9.6. Taxi take off:

Long press the up arrow ▲ key to glide and take off (Figure 10)

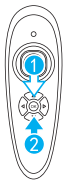⚠ Note: Glide takeoff requires a smooth ground and windless condition.

Figure 10

9.7 Fine tuning function

Long press the direction ▼ key to make a beeping sound and release it to enter the fine-tuning mode.

1. Advance/backward fine adjustment of the aircraft: When the aircraft leaves the ground and deviates towards the rear, continuously press the up arrow key ① for fine adjustment. When the aircraft deviates forward, continuously press the down arrow key ② to make fine adjustments.
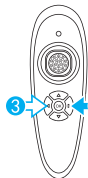
2. Fine adjustment of the left/right flight of the aircraft. When the aircraft leaves the ground and deviates to the right, continuously press the left direction key ③ to adjust. When the aircraft deviates to the left, continuously press the right direction key ④ to make fine adjustments.

10. APP download and installation instructions:

Download and install the software

After scanning the code with your mobile phone, select the corresponding system to download in the browser
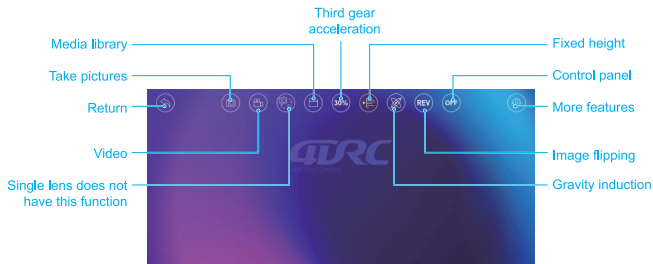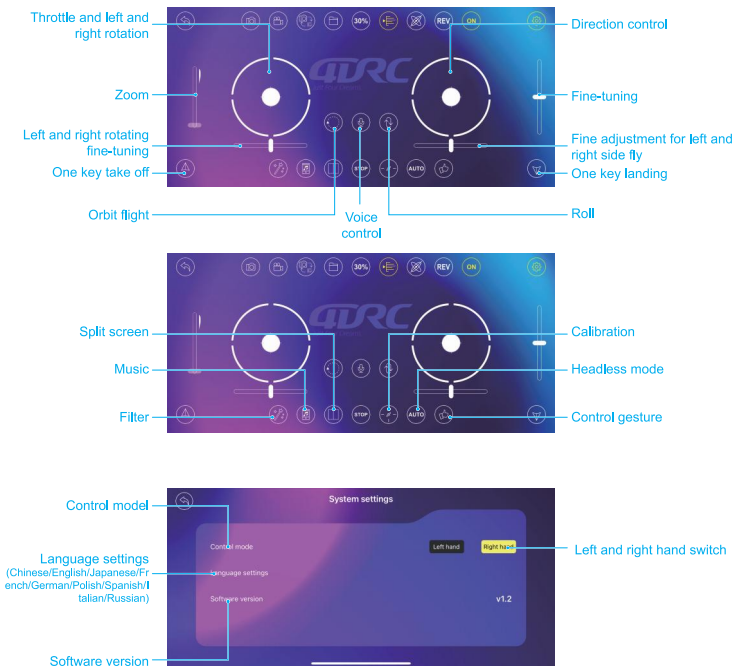
Download on the
4DRC FPV

Please scan this QR code to install

IOS app store

Android Google

Android China

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

11. APP control interface function introduction:

Third gear acceleration

Media library

Take pictures

Return

Video

Single lens does not have this function

Fixed height

Control panel

More features

Image flipping

Gravity induction

Throttle and left and right rotation — Direction control
Zoom — Fine-tuning
Left and right rotating fine-tuning — Fine adjustment for left and right side fly
One key take off — One key landing
Orbit flight — Roll
Voice control

Split screen — Calibration
Music — Headless mode
Filter — Control gesture

Control model — Left and right hand switch
Language settings (Chinese/English/Japanese/French/German/Polish/Spanish/Italian/Russian)
Software version

System settings
Control mode   Left hand   Right hand
Language settings
Software version   v1.2

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.

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

12.1 Turn on the power supply 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 fuselage indicator light will flash.

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

11
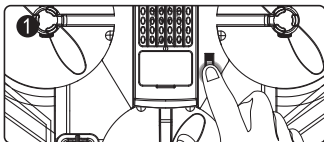
12.2 Turn on the wifi function in the mobile device, select "4DRC*********" in the wifi list (Figure11), and open the APP after the connection is successful. Click START to enter (Figure12), click OFF (Figure 13), turn on the touch joystick, and click More Functions (Figure 14) to turn on the "aircraft constant light on", which means that the frequency matching is successful.

Figure 11   Figure 12   Figure 13   Figure 14

12.3 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.
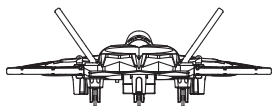

Figure 15

12.4 One-key take-off and landing

APP operation: Click the "one-key take-off" icon (Figure 16) 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 17), and the aircraft will automatically land slowly.

Figure 16   Figure 17

APP operation: Before taking off of the aircraft, please follow the steps in the above sequence: turn on (see 12.1) → APP start the frequency matching (see 12.2) → level calibration (see 12.3) →one key take-off and landing (see 12.4)

12

12.5 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.

12.6 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 18). 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 18

13
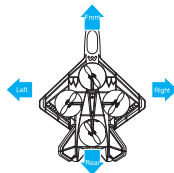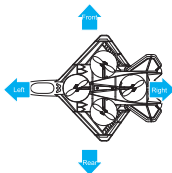
12.7 Speed switching

APP operation: Click the "Third gear acceleration" icon in the APP control interface, and the flight speed can also be switched (Figure 19).

Figure 19

12.8 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.

1. Fine-tuning of left/right rotationof 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.

2. 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.

12.9 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 prompt: 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.
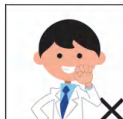
Correct gesture

Wrong gesture

Gesture photo: About 2m in front of the aircraft lens, raisethe 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.)

12.10 MV interface

Click the "filter interface" icon (Figure 20) 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 21). After the recording is completed, the synthesized short video or picture will be saved to the media library (Figure 22).

⚠ Special prompt: 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.
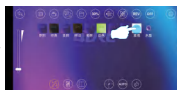

Figure 20

Figure 21

Figure 22

13. 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. For fan blade A or B, replace the one that is broken.
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.