

# NAFYRE

## OPERATING GUIDE

### N11 PRO



Tutorial Video

\*Please read this manual carefully before operation and keep it properly for future reference.

# CAUTIONS

- This product is not a toy, and improper use may result in damage. Please strictly follow the instructions manual or tutorial video.
- This product is suitable for individuals aged 16 and above. Due to its complexity, beginners are advised to seek guidance from an experienced pilot. Beginners should practice low-altitude flying in open, unpopulated areas for approximately three days to familiarize themselves with flying before attempting high-altitude flights.
- After the aircraft is powered on, avoid contact with the high-speed rotating parts and propellers to prevent the risk of injury (including gears and rotor blades).
- During and after use, the battery and motor of the aircraft will generate high temperatures. Do not touch them to avoid the risk of burns.
- To ensure compliance with aviation radio station requirements, do not use within a 5000-meter radius from the airport runway center or during periods and areas where radio control orders are issued by relevant authorities.
- Ensure that no one else is using the same frequency and keep the aircraft within your line of sight.

## FCC WARNING

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE 1: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

NOTE 2: Any changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

# CONTENT

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# KNOW YOUR DRONE



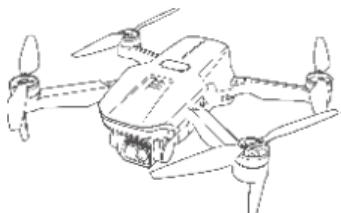
① Upper Casing	⑤ Battery
② Lower Casing	⑥ Brushless Motor
③ Propeller B	⑦ Camera
④ Arm	⑧ Propeller A

## Blade replacement:

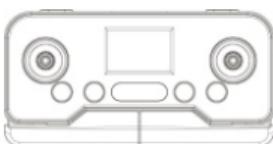
The propeller to be replaced must be replaced corresponding to the relative position on the machine. Propeller A needs to be installed at position A, and propeller B needs to be installed at position B. If propeller is replaced incorrectly, it can not be controlled.

When flying, the fan blade A rotates clockwise, and the propeller B rotates counterclockwise.

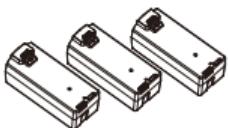
# ACCESSORIES



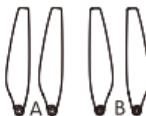
Drone x1



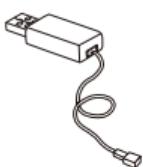
Remote Control x1



Battery x3



Backup Propellers  
Ax2 Bx2



USB Charger x1



Screwdriver x1



User Manualx1

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## 7LSV

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Please check the number of accessories carefully (as shown above). Please provide proof of purchase and contact the seller for replacement of any missing parts.

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# PRE-FLIGHT PREPARATION

## Flight Environment



Indoor: Spacious spaces away from barriers, crowds or pets are preferred.



Outdoor: Sunny, windless and breezy weathers are preferred.



Please keep the drone in sight during the flight and keep it away from barriers, high voltage wire, trees and people.



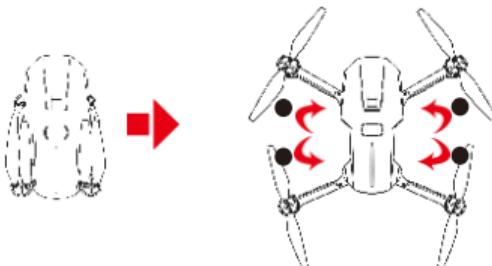
Do not fly in extreme environment, such as hotness, coldness, strong wind or heavy rain.

## Open The Wings

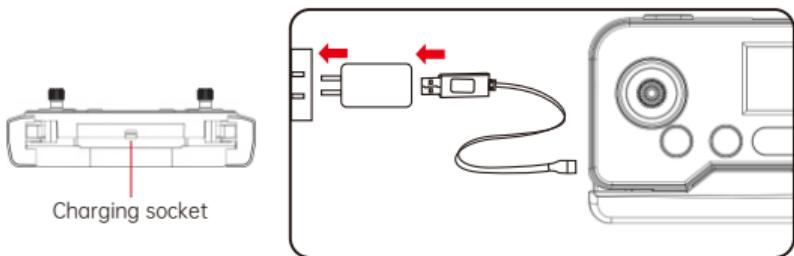
① Open the front arm(close to camera)

② Open the back arm

Fold the back arm firstly and then the font arm when folding.



## Charge The Remote Control



Insert the charging plug of the charging cable into the charging-socket of the remote control, and then connect the USB charger plug to the computer or mobile phone charger for charging. The charging indicator light is on when charging, and the indicator light turns off when fully charged.

Charging time is about 40 minutes.

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### 7LSV

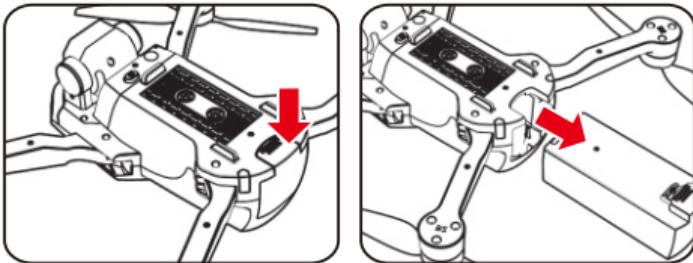
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if the charging indicator light does not change during charging, it means the battery is fully charged and does not need to be recharged.

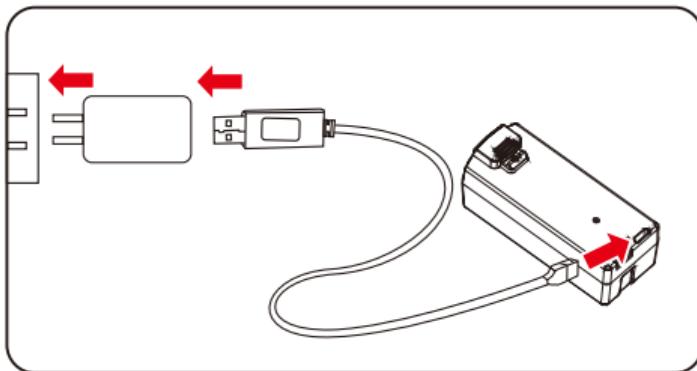
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## Battery Charging For Drone

Remove the lithium battery from the bottom of the drone.



Connect USB charging cable with the charging interface of the lithium battery.



### 7LSV

The indicator light on the battery is always on when charging, and the indicator light is off when fully charged.(Charging time is about 360 minutes).If the battery is plugged into the charger, the indicator light on the battery does not light up, and there is no need to recharge.

# ⚠ BATTERY INSTRUCTIONS

- There is a certain risk when using lithium battery. It may cause fire body injury or property loss. Users must be aware of the risks and take full responsibility of using battery properly.
- If battery leakage occurs, please avoid contacting your eyes or skin with electrolyte. Once it happens, please wash your eyes with clean water and seek medical care immediately.

Please remove the plug immediately if you sense any peculiar smell, noise or smog.

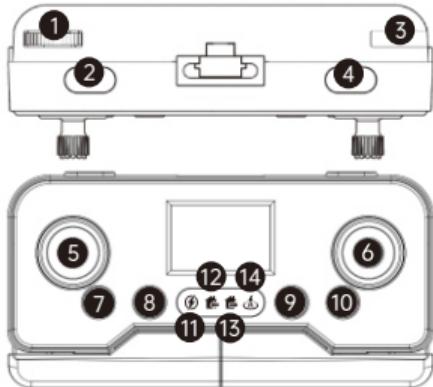
## Battery Charging

- Please use the charger from original factory to ensure your safe usage.
- Do not charge dilatant or outworn battery.
- Do not over charge battery. Please unplug the charger once fully charged.
- Do not charge the battery next to inflammables, such as carpet, timber floor or wood furniture or on the surface of electro-conductive objects.  
Please always keep an eye on the battery when charging.
- Do not charge battery which not cool down yet.
- The charging temperature should be between 0°C to 40°C.

## Battery Recycling

- Do not dispose the battery as daily rubbish. Please familiarize yourself with the local garbage disposal method and dispose it according to the special requirement.

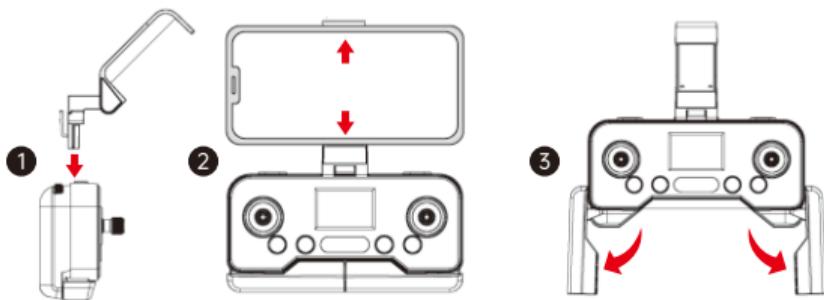
# KNOW YOUR REMOTE CONTROL



① Camera adjustment	⑧ Geomagnetic calibration
② Speed switch	⑨ GPS switch
③ Gyroscope correction	⑩ Power switch
④ One-press for return	⑪ Charging indicator
⑤ Left joystick Up/down/turn left and right	⑫ Indoor mode light
⑥ Right joystick Forward/backward/ fly left and right	⑬ Outdoor Mode Indicator
⑦ Unlock	⑭ Return indicator light

# INSTRUCTIONS FOR THE REMOTE CONTROL

## Handlebar/Mobile Phone Frame



Mobile phone frame: Put the mobile phone frame into the remote control (①), and stretch it up to place the phone (②).

Remote control handlebar: pull down the bottom handle of the remote control from the middle position and rotate to the place(③).

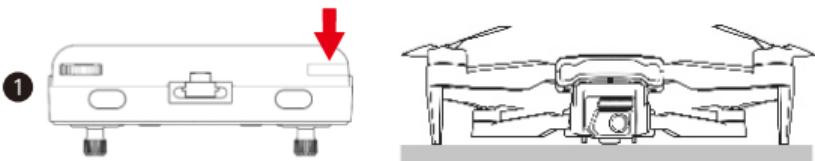
## Drone Flight Tutorial

### A. Indoor Mode Tutorial

#### Drones to frequency

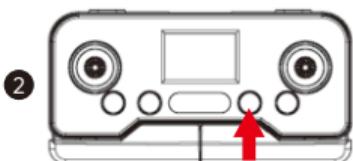
Put the battery of the drone into the battery slot of the drone in the correct direction, place the drone on a level ground and turn on the power, and then turn on the power of the remote control. At this time, the remote control will sound "Di" to indicate that the frequency binding is successful.

### Gyroscope calibration operation



Put the drone in a horizontal position, press the "Gyroscope calibration" button on the remote control ( 1 ), the light of the drone will flash quickly and become long, and the remote control will emit a sound of "Di", indicating that the calibration is successful.

### 3.Turn on indoor mode



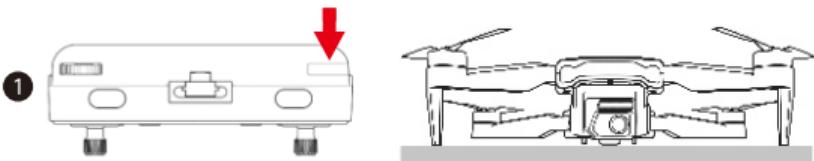
Press and hold the GPS switch button for 3 seconds ( 2 ), the remote control will beep twice, and the indoor mode indicator light on the remote control will be on, indicating that the indoor mode is turned on.

## B. Outdoor Mode Tutorial

### Drones to frequency

Put the battery of the drone into the battery slot of the drone in the correct direction, place the drone on a level ground and turn on the power, and then turn on the power of the remote control. At this time, the remote control will sound "Di" to indicate that the frequency binding is successful.

## Gyroscope calibration operation



Put the drone in a horizontal position, press the "Gyroscope Calibration" button on the remote control ( ① ), the light of the drone will flash quickly and become long, and the remote control will emit a sound of "Di", indicating that the calibration is successful.

## Calibrate geomagnetic operation

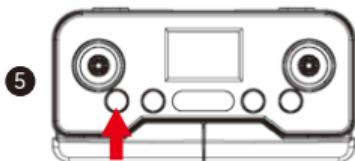


The geomagnetism is easily interfered by other electronic devices, which will cause abnormal data and affect the flight. For the first use, geomagnetic calibration must be performed. Calibrate the geomagnetic field according to the following steps:

After short pressing the button of the remote control ( ② ), the remote control will emit a "Di" sound, and the indicator light of the drone will flash quickly, and the calibration can be performed at this time.

Hold the drone in your hand, press ( ③ ) and rotate slowly clockwise for 3 circles in the horizontal direction, and remote controller will make a sound of "Di", indicating that the horizontal calibration is successful. At this point, the vertical direction can be carried out ( ④ ), and the nose of the machine can be rotated slowly clockwise for 3 circles, and the remote control will emit two beeps of "DiDi", indicating that the calibration is successful.

## Search for GPS signals



After the geomagnetic calibration is completed, put the aircraft on a horizontal surface, the aircraft will automatically search for satellites, the indicator light of the aircraft will change from the slow flashing of the rear light to a steady light, and the outdoor mode indicator light on the remote control will be on, indicating that the satellite search is successful. At this time, short press The remote control "unlock button" ( 5 ) can fly.

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## 7 LSV

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- Please ensure that the take-off environment is an open outdoor environment, and the satellite signal before take-off is greater than 9 stars.
- The latitude and longitude of each region are different. New customers must calibrate once. For example, the difference between Guangdong and Beijing is 28 degrees. Therefore, non-calibration means forward and backward flight instead of straight flight. Calibration is for the accuracy of the barometer to measure altitude.

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# BASIC FLIGHT

## Basic Flight Steps

The remote control and the drone are coded, and the drone is initialized.

Geomagnetic calibration. (No need to calibrate again at the same place)

After the aircraft is calibrated, wait for the satellites to be received, usually 60-80 seconds (above 9 stars) to unlock the flight.

**Satellite signals:** Represents current flight mode and number of satellites; Scintillation means that the current mode is the optical flow point, without the function of returning, following, circling and pointing. Constant light indicates current GPS mode.

**Battery:** The battery status of the aircraft.(1) 2-4 grid indicates the normal power, which can operate the returning, following, circling and pointing flight functions normally in the GPS mode.(2) 1 grid (flicker state) represents the current low power state, and the aircraft will perform the automatic course reversal function. There is no following, circling and pointing flight function in low power state.

**GPS signal:** Displays the height, distance and corresponding longitude and latitude of the current aircraft from the reentry point.

**Revolve lens:** Can switch between front lens and down lens.

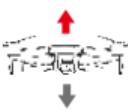
**VR model:** Click into VR mode.

**Rotate lens:** Record the relevant parameters of each flight.

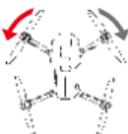
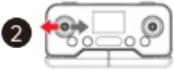
**Clarity:** Click to switch the video definition.

**Album:** Photos and videos can be viewed.

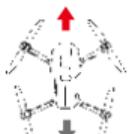
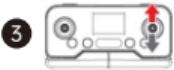
## Basic Flight Steps



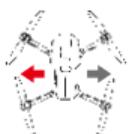
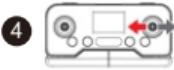
When the left joystick (throttle) is pushed up, the main rotor speed increases, and the aircraft ascends. When the left joystick (throttle) is pushed down, the main rotor speed decreases, and the aircraft descends.



When the left joystick (rudder) is pushed left, the aircraft's nose turns left; when pushed right, the aircraft's nose turns 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.



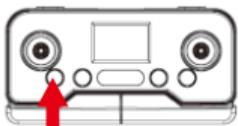
When the right joystick (rudder) is pushed right, the aircraft flies to the right. When the right joystick (rudder) is pushed left, the aircraft flies to the left.

### ⚠ Caution

When the Drone is 30 cm away from the ground, the Drone will become unstable due to the influence of its own blade eddy current, which is called "ground effect reaction". When the height of the Drone is lower, the effect of ground effect reaction is the largest.

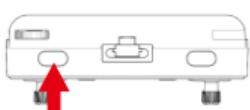
# OPERATION DESCRIPTION OF REMOTE CONTROL FUNCTION

## Drone Unlock



When the drone has successfully positioned itself outdoors, the drone needs to be unlocked to start, press and hold the remote control. Press the "unlock" button. At this time, the four propellers rotate at the same speed, indicating that the unlocking is successful. When the unlocking is completed, the UAV can operate and fly normally.

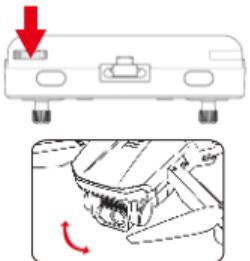
## Speed Gear Adjustment



The take-off speed gear of the drone defaults to the slow gear. When the drone is flying in the air, the speed can be adjusted through the fast and slow speed gear.

Short press the speed button and the remote controller will beep twice to indicate entering Second gear, short press the speed button again, the remote control will return to the low gear with a beep.

## Camera Angle Adjustment



During the flight of the drone, the camera angle can be adjusted through the camera adjustment knob .

Turn the knob to the left to increase the camera angle, and turn the knob to the right to decrease the camera angle.

## One-press For Return

After the GPS function is turned on outdoors and the satellite is searched for calibration and takeoff, if the drone is flying far away or the drone is in a low battery state, press the one-key return button, and the drone will return to the initial take-off position.

### Return:

The aircraft has a home return function. If the home point is successfully recorded before takeoff, the remote controller and the aircraft lose the communication signal or the home key is pressed, the aircraft will automatically return to the home point and land to prevent accidents.

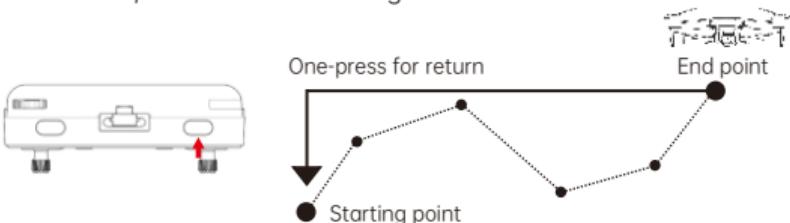
The aircraft has three different ways to return to home, namely: one-key return, uncontrolled return, and low battery return.

### Home point:

During takeoff or flight, when GPS receives more than 9 stars for the first time, it will record the aircraft's current position as the home point.

### One-press for return:

When the GPS signal is good (the number of satellites is greater than 9), you can start the aircraft to return to home by pressing the "one-key return" button on the remote control. The return process is the same as the out of control return. The difference is that when the aircraft returns to home and lands, the user can control it with the joystick. The aircraft can avoid obstacles, and then press the "one-key return" button on the remote control to exit and return, and the user can regain control.



## **Out of control and returning:**

When the GPS signal is good (the number of satellites is greater than 9), the compass is working normally, and the aircraft successfully records the home point, if the remote control signal continues to be interrupted for more than 6 seconds, the flight control system will take over the control of the aircraft and control the aircraft to fly back to the recorded return home point. If the remote control signal is restored during the flight, the return home process will continue, but the user can cancel the return home via the remote control return home button and regain control of the aircraft.

## **⚠ Note for returning home:**

- During the automatic return, the aircraft cannot avoid obstacles. When the GPS signal is poor or the GPS is not working, it cannot return home.
- If the aircraft does not receive the satellite and the remote control signal continues to be interrupted for more than 6 seconds, the aircraft will not be able to return home and will descend slowly until the landing is locked.

## **Low power return:**

The low-voltage indicator of the aircraft will flash slowly, and the aircraft will automatically return to the vicinity of the takeoff point within 30 meters. After detecting low power, the aircraft will return to the vicinity of the takeoff point, and the aircraft's altitude and distance will be limited to within 30 meters. If the aircraft voltage is lower than the safe value, it will automatically land at the home point.

## **⚠ Caution**

The aircraft is in the low power return state, and the remote controller cannot cancel the return.

# FAQ

PROBLEMS	SOLUTIONS
After the aircraft is powered on, the indicator light keeps flashing rapidly.	The aircraft is in the gyroscope detection state, please place the aircraft on a stationary surface or on the ground.
After taking off, the aircraft can't hover, it leans a lot to one side.	Place the aircraft on a flat or level ground and re-calibrate the gyroscope.
The aircraft vibrates very badly.	The blades are deformed and need to be replaced.
Unsteady flight of gale aircraft	Avoid flying in strong winds.
Unable to hover, keep going in circles.	The geomagnetism calibration is unsuccessful, re-calibrate the geomagnetism.
The aircraft cannot be unlocked, and the indicator light flashes quickly.	The aircraft battery voltage is too low. Please fully charge the battery.