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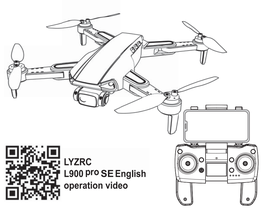
AGE:14+

Brushless EPS four-axis aerial photography UAV
Operating instructions



LYZRC
L900 Pro SE English
operation video

Safety precautions:

1 In order to ensure the electromagnetic environment requirements of aviation radio station (station), it is prohibited to use various model remote controllers in the area with the center point of airport runway as the center point and the radius of 5000M. During the period when the relevant departments of the state issue radio control orders and regional areas, the use of model remote controllers shall be stopped as required. Please fly in warm, clear, windless weather. Do not fly in severe weather conditions such as overheating, overheating, strong wind, rainstorm, etc. Please choose indoor or outdoor open area, and keep a safe distance from people, pets, empty overhead wires and other obstacles. Make sure that no other uses the same frequency. Do not let the aircraft out of sight.
2 after the aircraft is started, please do not contact the high-speed rotating part of the aircraft and keep a distance from the high-speed rotating propeller to avoid the risk of strangulation. (Including years, rotors, etc.)
4.During and after the use of the aircraft, the battery and motor will generate high temperature. Please do not touch it to avoid the risk of scalding.
4 do not look directly at the light beam of the LED to avoid affecting the eyes.

Warm Tip: It is suggested that beginners practice flying at low altitude in an open and unmanned place for about 3 days, and then fly to high altitude after being familiar with flying

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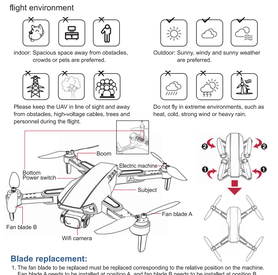
Pre-flight preparation

flight environment



Blade replacement:

1. The fan blade to be replaced must be replaced corresponding to the relative position on the machine. Fan blade A needs to be installed at position A, and fan blade B needs to be installed at position B. If fan blade is replaced incorrectly, it can not be controlled.
2. When flying, the fan blade A rotates clockwise, and the fan blade B rotates counterclockwise.

1. Important note

This product is not a toy, wrong use will cause damage.
Please follow the instructions before using this product. Do not disassemble the product yourself. Otherwise, the manufacturer is not responsible for any damage.

2.Safety Instructions

Warning: Drone must be operated in a safe zone or away from people. Do not operate in crowded area. Due to pilot operational error or frequency interference, incidents, malfunctions may occur, which may lead to injury or damage to crowds.
Prohibited:
This quadcopter product is suitable for flying both indoors and outdoors, please keep away from obstacles. Be sure to choose an environment that does not have any obstacles, crowds, pets and pedestrians. Obstacles are defined as heating device, electrical cords, power source or outlets. This is to prevent unexpected collision, tangling with wires, electrified, life danger or property damages caused by fire due to unsafe landing.
Warning:
This product is for age 14 and up. The learning curve can be difficult to start, It is recommended to have an experienced pilot as instructor for beginners.

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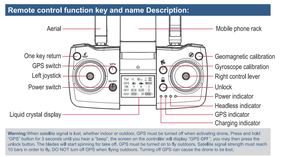
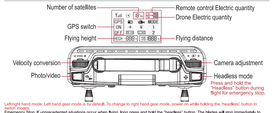
Remote control function key and name Description:

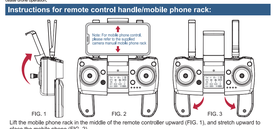


Warning: When satellite signal is lost, whether indoor or outdoor, GPS must be turned off when activating drone. Press and hold "GPS" button for 3 seconds until you hear a "beep", the screen on the controller will display "GPS OFF". Then press the unlock button. The blades will start spinning for take off. GPS must be turned on to fly outdoors. Satellite signal strength must reach 10 bars in order to fly. DO NOT turn off GPS when flying outdoors. Turning off GPS can cause the drone to be lost.



Left/right hand mode: Left hand gear mode is by default. To change to right hand gear mode, power off while holding the "Headless" button to enter setting.
Emergency Stop: If unprecedented situations occur when flying, long press and hold the "Headless" button, The blades will stop immediately to avoid accidents.

Instructions for remote control handle/mobile phone rack:



Lift the mobile phone rack in the middle of the remote controller upward (FIG. 1), and stretch upward to place the mobile phone (FIG. 2).
Remote control handle: Pull the bottom handle of the remote control down from the middle position and rotate it into place(FIG. 3).

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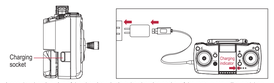
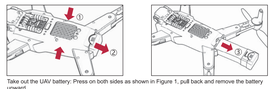
Instructions for charging controller:



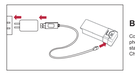
Insert the charging plug of the charging wire into the charging socket of the remote controller, and then connect the USB charger plug to the computer or mobile phone charger for charging. When charging, the charging indicator lights up, and the indicator lights out after full charging. (Charging time is about 60 minutes)

Note: If the charge indicator does not change during charging, this indicates that the battery is fully charged and does not need to be recharged.

Instructions for charging drone lithium battery:



Take out the UAV battery: Press on both sides as shown in Figure 1, pull back and remove the battery upward.



Battery charging steps:

Connect the USB charger plug to the computer or mobile phone charger to charge. When charging, the battery light stays on long, and when fully charged, the light turns off.
Charging time is about 90 minutes.

Note: If the battery is plugged into the charger and the Android headlight on the battery is not on, no recharging is required

Pre-flight environmental requirements:

Please choose an open indoor or outdoor environment without rain and snow and wind force less than Level 4 to fly. Please stay away from people, trees, electric wires, tall buildings, airports and signal transmission towers when flying.

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UAV flight tutorial:

1.Use frequency matching
Place UAV on the horizontal ground, turn on the power supply, and then turn on the power supply of the remote control. At this time, the light on the aircraft flashes quickly, the light on the remote control flashes, and the remote control automatically adjusts the frequency. At this time, the front and back indicators on the UAV change from the consistent flash to the headlight flash, and the long light of the rear lamp indicates that the frequency adjustment is successful.
(After the second frequency adjustment after calibration at the same position, the headlight flashes quickly and the backlight keeps on to directly enter the star search state)
2. Gyro calibration operation
Put the UAV in a horizontal position and hold down the "Gyroscope Calibration" button (figure 1) on the remote control. After holding down the button for 3 seconds, the uav light will flash suddenly and then flash quickly. At the same time, the remote control will sound "Di", indicating that the calibration is successful.

3. Calibrate geomagnetic operations
Geomagnetic is prone to interference by other electronic equipment, which will lead to abnormal data affecting flight. Geomagnetic calibration must be carried out before each use, according to the following steps to calibrate geomagnetic:
After pressing the button of the remote control (figure 2) for 3 seconds, the remote control will sound "Di", and the indicator light of the UAV will blink from slow to fast, at which point the calibration can be performed.
Hold the DRONE in your hand and turn it clockwise for 3 times in the horizontal direction according to (figure 3). The indicator light on the DRONE flashes slowly from fast, and the remote controller gives a sound of "Di", indicating that the horizontal calibration is successful. At this point, vertical direction can be carried out (Figure 4). The nose turns clockwise for 3 turns slowly. The red indicator light flashes slowly and becomes long on after the UAV, and the remote control emits a sound of "Di" to indicate that the calibration is successful.

4. Search for GPS signals:
Put the UAV in an open environment without interference. After the successful calibration of geomagnetic and gyroscope, the green indicator light at the front of the UAV will flash slowly and the red indicator light at the back will keep on for a long time. Wait for the GPS automatic star search to reach more than 8 stars, the green indicator light at the front of the UAV will keep on for a long time and the red indicator light at the back will keep on. It means that the star search is successful and the GPS signal is stable and does not jump.
At this point, long press the "Unlock button" of the remote control (Figure 5) to fly.

Special note:
1. For outdoor flight, please ensure that the number of GPS signal stars is at least 8, and that there is no large jump, and there is no obvious signal interference around before takeoff.
2. Please take the UAV to an open place for calibration.
3. The longitude and latitude of each region are different, so the new customer must calibrate once. For example, the difference between Guangdong and Beijing is 28 degrees.

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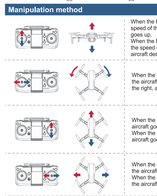
Remote controller Video picture shooting instructions:

Remote control video key, gently press to take photos,long press to record.

Manipulation method



When the left lever (accelerator) is pushed upwards, the speed of the main wind blade increases and the aircraft goes up.
When the left lever (accelerator) is pushed downward, the speed of the main wind blade slows down and the aircraft descends

When the left lever (rudder) is pushed to the left, the aircraft head turns to the left, when pushed to the right, and the head turns to the right.

When the right lever (rudder) is pushed up, the aircraft goes forward.
When the right lever (rudder) is pushed down, the aircraft goes backward.

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

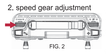
Warning: When the Drone is 30 cm away from the ground, the Drone will become unstable due to the influence of its own blade eddy current, which is called "ground effect reaction". When the height of the Drone is lower, the effect of ground effect reaction is the largest.

Operation description of remote control function:

1, UAV 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 (Figure 1). 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.

2, speed gear adjustment



The take-off speed gear of the UAV defaults to slow gear. When the UAV flies in the air, the speed gear can be adjusted through the knob (Figure 2). Rotate the speed knob to the right. The remote controller "drops" twice indicates that it enters the second gear. When the remote controller is rotated, the remote controller "drops" three times indicates that it enters the third gear high-speed mode. Otherwise, the left turn indicates that it enters the second gear and the first gear low-speed.

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3. Camera angle adjustment

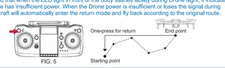
The angle of the camera can be adjusted through the camera adjustment knob (Figure 3) during UAV flight, Knob right turn camera angle decreases, knob left turn camera angle increases

4.headless mode

Place the UAV directly in front of the remote controller, with the nose of the UAV facing forward, calibrate and take off horizontally after frequency alignment, press the headless mode button (Figure 4) during flight, and the remote controller "drops" three times, indicating that the UAV enters headless mode. At this time,The UAV's front indicator lights flash slowly. To exit headless mode, press the headless mode button again, and the remote control drops to exit headless mode.

Make sure that the operator is facing the same direction from beginning to end, in the same direction as the aircraft took off. At this time, no matter which direction the aircraft faces, the operator dials the direction rocker to retreat, and the aircraft will retreat towards the operator.

5.One-press for return
When the drone is flying in the air, press this function button on the remote control (Figure 5), it will automatically rise or fall to a height of 30 meters, return straight and land to the take-off location.
Special suggestion:
it is suggested that when the LED light in front of the body flashes slowly during Drone flight, it indicates that the Drone has insufficient power. When the Drone power is insufficient or loses the signal during flight, the aircraft will automatically enter the return mode and fly back according to the original route.



Resolution guide for common problems

Problems	Causes	Resolutions
Drone indicator is flashing while not respond when operating	1. Unsuccessful Drone GPS souxing 2. Low power of Drone	1. Move the Drone to an empty place to perform souxing again 2. Charging the battery
Drone blades turn but can't fly	1. Low battery 2. Blade deformation	1. Charging the battery 2. Replacement of blade
The drone was badly shaken	Blade deformation	Replacement of blade
Can't keep the drone steady after fine-tuning to the bottom	1. Blade deformation 2. Poor motor	1. Replacement of blade 2. Replacement of motor
After impact, uncontrolled flying of Drone when start again	Triaxial acceleration sensor overbalances due to impact	Make the Drone standstill for 5-10 seconds

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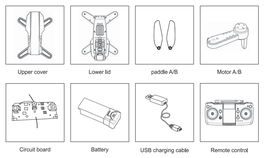
Accessories



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. Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
NOTE: 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.
The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction