XiL 193
MAX RTS
GPS Smart Drone

MADE IN CHINA

14+ AGES

HD Full HD image transmission
Farther. Faster. Clearer

GPS

XiL193
MAX RTS
GPS Smart Drone

* Please read the manual carefully before flight and keep it for future reference.

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193 MAX RTS Quick Start Guide

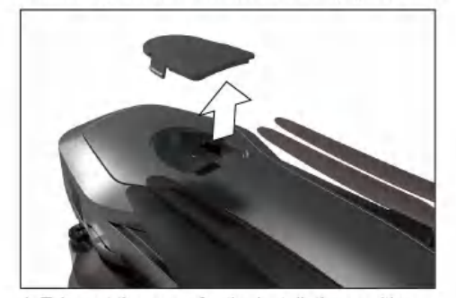
Learn more about drones before flying

* For details, please refer to the instruction manual.
Please ensure that the drone and remote control batteries are fully charged before the flight.

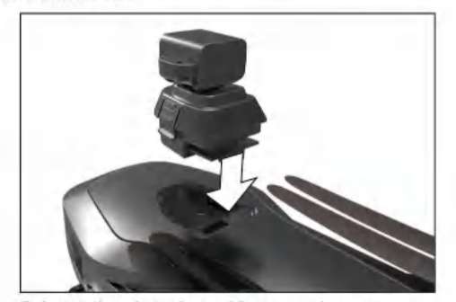
1. Precautions for the installation and use of obstacle avoidance equipment:

⚠ Use note:

A. Obstacle avoidance equipment must be installed before turning on the power of the drone, otherwise it will damage the obstacle avoidance equipment and affect normal use.



1. Take out the cover for the installation position of the obstacle avoidance equipment

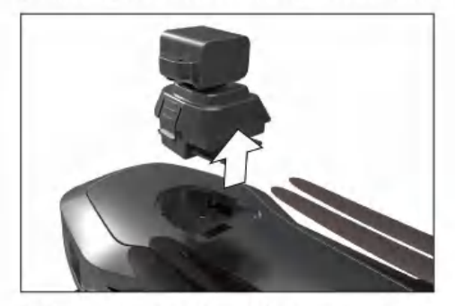


2. Insert the obstacle avoidance equipment as shown in the picture

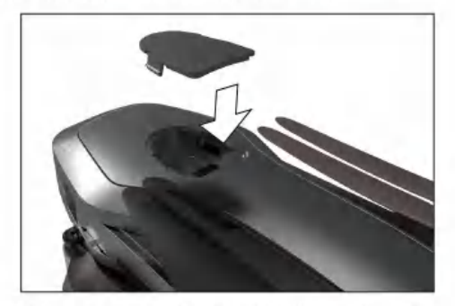
B. When turning on this product, do not touch the obstacle avoidance equipment, because the obstacle avoidance equipment is in the power-on working state, unauthorized touching will cause the obstacle avoidance equipment to not work normally, and it will most likely damage the obstacle avoidance equipment function.

The obstacle avoidance equipment will rotate left and right when it is running. Do not manually interfere with it to prevent it from rotating when it is rotating, otherwise the equipment may be damaged.

C. When removing the obstacle avoidance equipment, the power of the drone must be turned off before dismantling, otherwise it will damage the obstacle avoidance equipment and affect normal use.



1. Remove the obstacle avoidance equipment as shown in the figure



2. Install the cover for the installation position of the obstacle avoidance equipment

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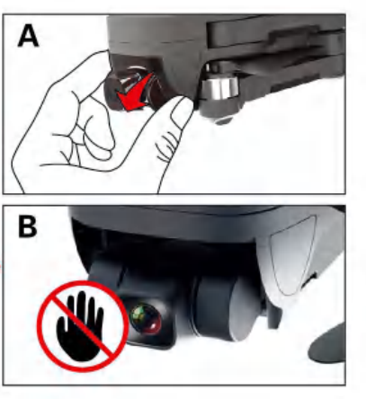
2. Precautions for using the PTZ camera:

⚠ Use note:

A. Please remove the protective cover from the camera before starting this product.
B. Do not touch the gimbal camera when starting this product! Because the gimbal is automatically calibrated at the moment of power-on, if you touch it without authorization, it will cause the gimbal to fail to calibrate properly, and the gimbal calibration function may be damaged! Please do not touch the camera while the gimbal is being calibrated when the power is on!



3.Remote control with drone

Turn on the power of the drone first and then the power of the remote control. After the power of the drone remote control is automatically synchronized.
Note: The drone is placed on a flat ground directly in front of the remote control, and the light of the remote control changes from flashing to steady on after the frequency synchronization is successful.

⚠ important hint:
You must first correct the geomagnetism and then the gyroscope, otherwise it will affect the normal use.

4. Geomagnetic correction

Place the drone on a horizontal surface, press and hold the indicator button (Figure 1) for 5 seconds, and then the remote control will make a beep to perform geomagnetic correction. At this time, the aircraft lights flash quickly, pick up the drone and press the indicator clockwise (Figure 2) Rotate 3-5 times, the remote control will make a beep, and then rotate the camera down (Picture 3) 3-5 times, the remote control will make a beep of the drone light flashing slowly, the light flashes slowly, the geomagnetic correction is completed!

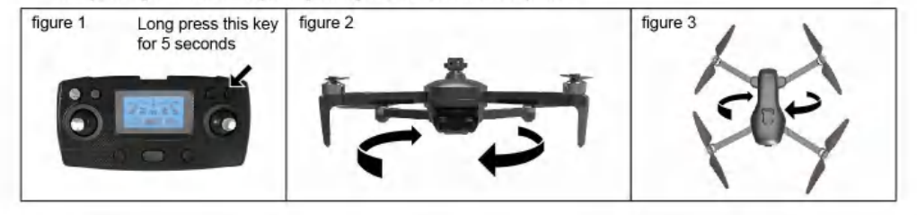


figure 1
Long press this key for 5 seconds
figure 2
figure 3

5. Drone gyroscope and gimbal level calibration

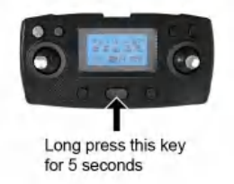
Place the drone still on a horizontal surface, and press and hold the remote control for 5 seconds to make a beep. As shown in the figure, the drone light changes from fast flashing to slow flashing.

Long press this key for 5 seconds
Drone placed horizontal

---

6. Flight mode switch

Note: The product is powered on by default GPS mode (mode 2). The drone can only unlock the motor but cannot take off without reaching 8 satellites. If you want to take off, you need to switch the optical flow mode before the satellite positioning is completed. Press the GPS button for 5 seconds (switching method as shown on the right), the remote control will beep after the switch is successful. At this time, the drone will not have all GPS-related functions (one-button return, low power return, out-of-control return, etc.). Pay attention to the flying height and distance to avoid losing the drone!

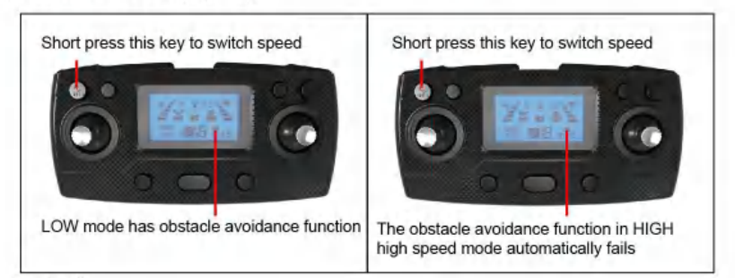


Long press this key for 5 seconds

Note * It is not possible to switch to optical flow mode after GPS positioning is completed. To switch, you need to turn off the drone and remote control and restart.

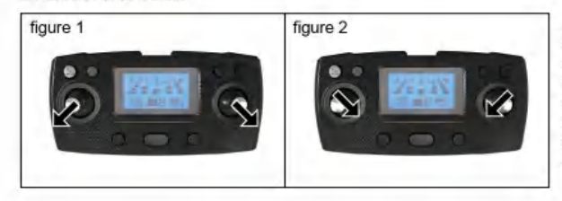
7.LOW gear switch HIGH gear

Note: The product is turned on by default in low-speed gear mode, and the drone has obstacle avoidance functions. If you switch to high gear mode, the drone obstacle avoidance function will automatically fail. At this time, the drone will not have all obstacle avoidance functions.
Need to pay attention to the flight height and distance, pay attention to the surrounding flying environment, to avoid damage to the drone due to improper flight.



Short press this key to switch speed
LOW mode has obstacle avoidance function
Short press this key to switch speed
The obstacle avoidance function in HIGH high speed mode automatically fails

8. Drone unlock



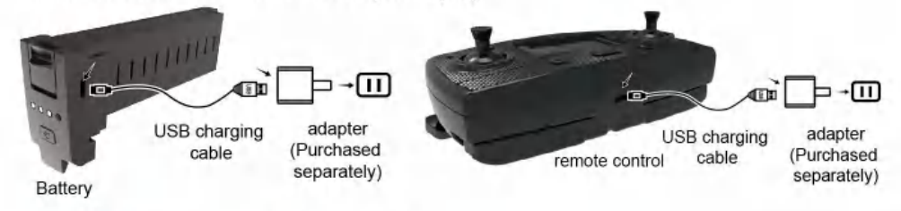
At this time, the throttle stick and the directional stick are pushed to the lower left corner and the lower right corner at the same time (Figure 1), or pushed to the lower right corner and the lower left corner (Figure 2) at the same time, the unlocking can be completed, and the motor can fly after starting.

9. UAV and remote control battery charging

How to take out the drone battery

Press the battery latch and remove the battery backwards. Keep fingers and machine clean and dry before operation, otherwise the battery may not be slipped out.

Remote control and drone battery charging



Battery
USB charging cable
adapter (Purchased separately)
remote control
USB charging cable
adapter (Purchased separately)

⚠ Tips:
- Insert the plug in the correct way.
- It is recommended to use 5V 1-2A adapter for charging.
- After the drone is used, please turn off the battery power and take it out in time, and place it in a cool place to avoid heat and damage caused by the drone for a long time.

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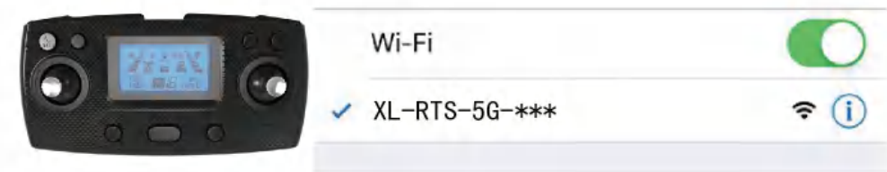
10. Know Your Remote APP

(1) Scan the QR code to download and install the APP, and support Google IOS and Android.

IOS system
Android system

(2) Turn on the power of the drone, turn on the power of the remote control, the drone and the remote control will automatically link to each other after powering on, and the remote control light will change from flashing to long on with a beep, indicating successful linking
(3) In the mobile phone settings, click on the wireless LAN, as shown in the figure below, select the "XIL-RTS-5G-****** (serial number)" network and connect, and then open the mobile APP to use.



Wi-Fi
✓ XL-RTS-5G-***

Notice:
If the drone turns off the remote control while flying in Mode1 mode, the drone's remote control signal and image transmission signal will be interrupted, and the drone will land vertically on the spot.
If the drone turns off the remote control while flying in Mode2 mode, the drone's remote control signal and image transmission signal are interrupted, and the drone will automatically return to home after the signal is interrupted.

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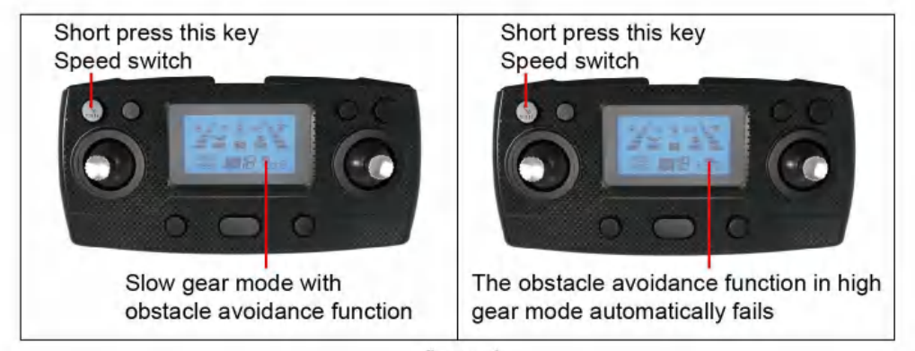
obstacle avoidance function and working principle

A. Obstacle avoider working conditions

The product is powered on by default in LOW mode. The drone has 360° obstacle avoidance function, such as switching to HIGH high-speed mode. Due to the high speed of the aircraft and the system has not received the instruction to stop the flight, the drone may have hit an obstacle. , The UAV's obstacle avoidance function is automatically disabled.



Short press this key
Speed switch
Slow gear mode with obstacle avoidance function
Short press this key
Speed switch
The obstacle avoidance function in high gear mode automatically fails

figure 1

B. Working principle of obstacle avoider

A pulse signal is sent from the transmitting port, and the pulse signal is turned back after encountering an obstacle in the scanning range, and the pulse signal is turned back after encountering an obstacle in the scanning range, and the receiving port receives the turning back pulse signal through a series of calculations. After the distance between the aircraft and the obstacle, send a stop forward instruction to the UAV, so as to achieve the effect of obstacle avoidance!

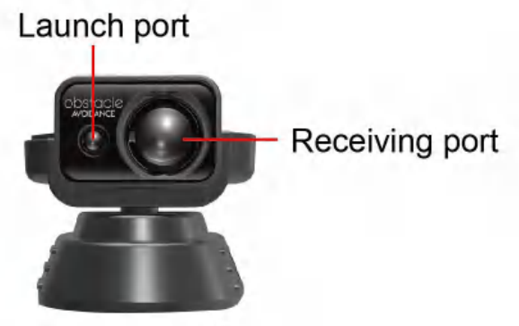


figure 2

C. Use and effect of obstacle avoidance function

1 When the drone is flying, as shown in Figure 3, 20 meters in front of the drone is the effective scanning range of the obstacle avoider, and the scanning path is about 90° between the two arms in the flying direction.

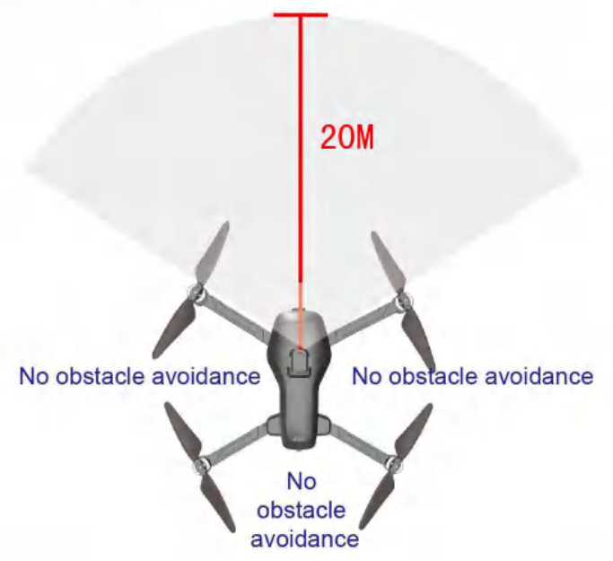


figure 3

2 When the drone flies on the left side, as shown in Figure 4, 20 meters on the left side of the drone is the effective scanning range of the obstacle avoider, and the scanning path is about 90° between the two arms on the left side for scanning. The same applies to the scanning range of the shock absorber flying backwards or right.

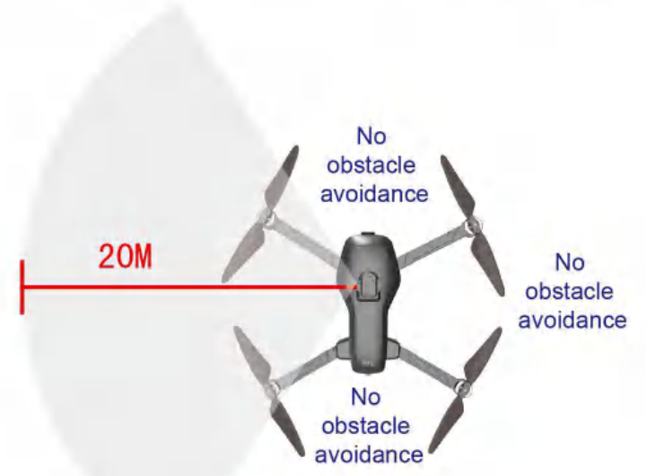


figure 4

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3. The position where the UAV stops flying is determined by the flight speed, when the UAV is flying at full speed in low gear. After the drone scans the obstacle at 20 meters, it starts to calculate and issue a stop flight command. The stop position of the drone is determined by the flight speed (the faster the flight speed, the closer the distance between the drone and the obstacle, and the opposite flight The slower the speed, the farther the distance between the drone and the obstacle)

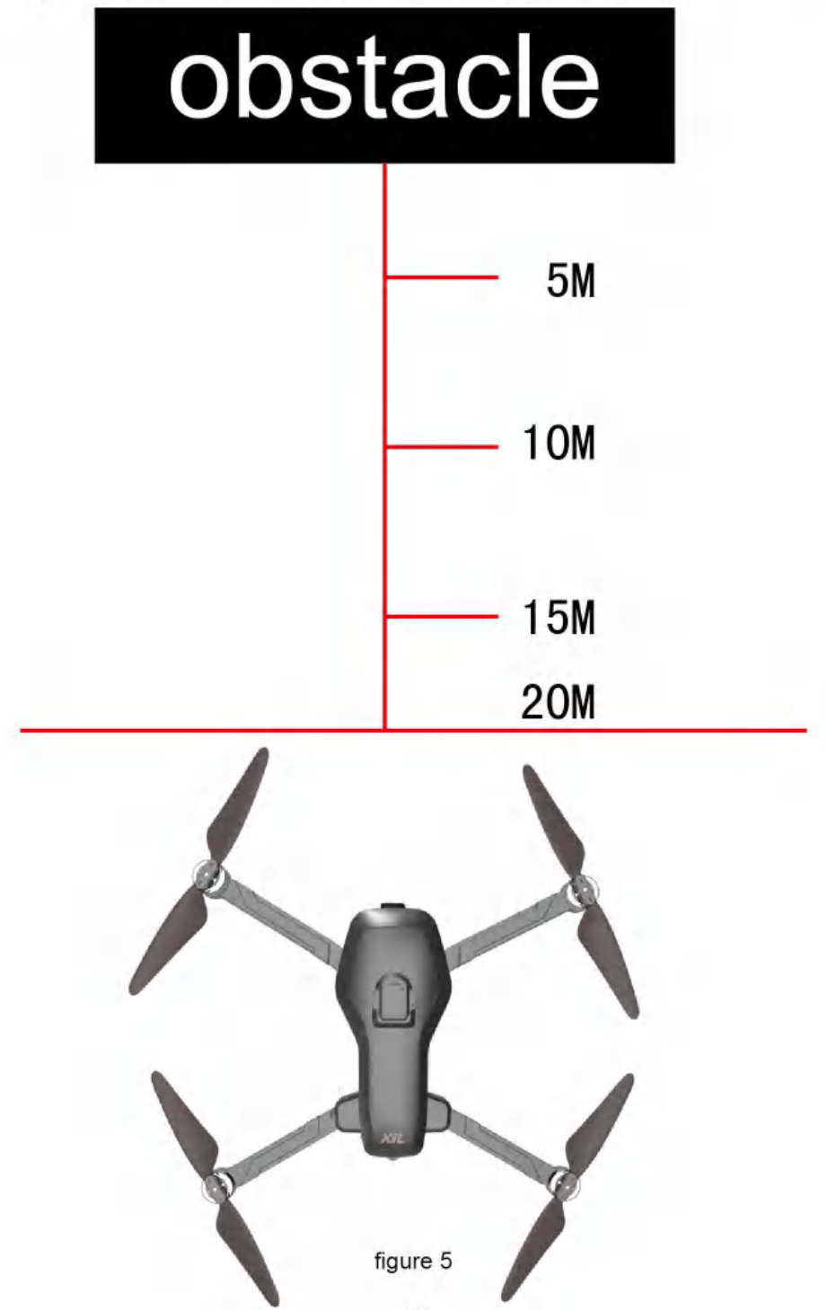

figure 5

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4. When the UAV encounters obstacles and hover in the scanning range of 20 meters in the flying direction, the UAV cannot continue to fly in that direction, and can continue to fly after avoiding the obstacles or to other obstacles within 20 meters. In the direction of flight.

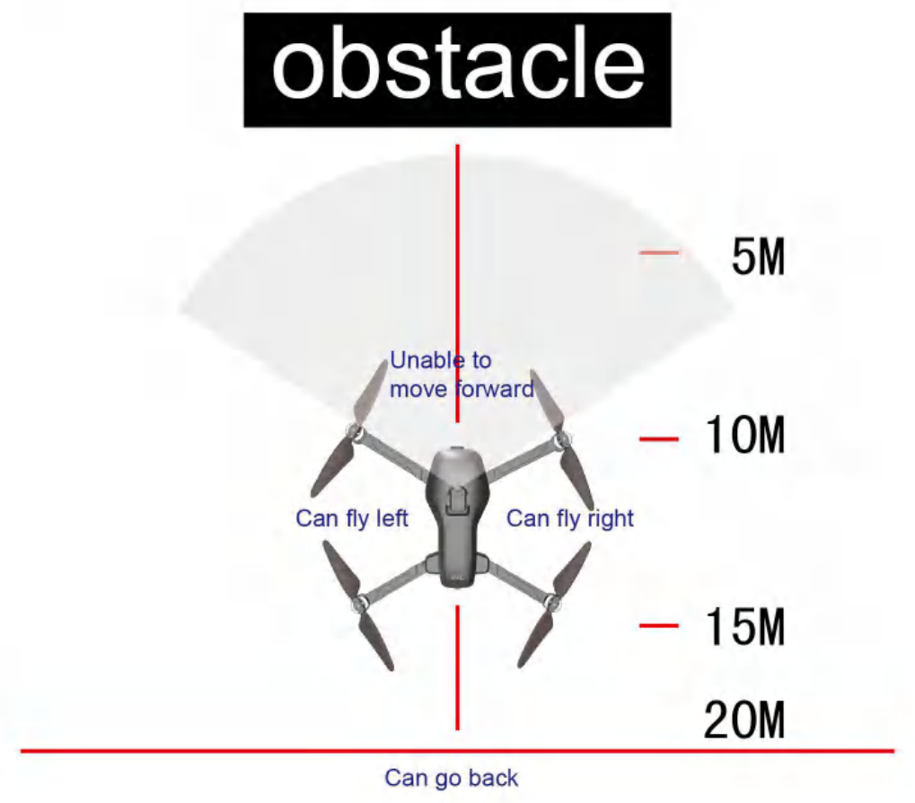

figure 6

5. When the drone takes off, there are obstacles within 20 meters of the forward direction. The drone cannot fly in this direction. It can continue to fly after avoiding the obstacles or fly to other directions with no obstacles within 20 meters.
6. If the UAV encounters an obstacle during GPS intelligent return, the obstacle avoidance device will rise to a safe height again after scanning the obstacle before returning.

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193 MAX RTS Flight Tutorial Video

The default Mode2: GPS / optical flow dual mode when booting. When you enable the Mode2 mode, please pay attention to the use in outdoor open areas without high-rise buildings, high-voltage wires and other signal interference.
Mode1: Optical flow mode. When using this mode, you must turn off the GPS function before taking off.

193MAX RTS Function display — Product function display

193MAX RTS Operation demonstration — Operation demonstration

Mode1: Optical flow mode, suitable for indoor open areas. After pairing the drone with the remote control, calibrating the geomagnetism and gyroscope, the display of the remote control changes from Mode0 to Mode1, and the drone will automatically perform GPS search and positioning , The automatic start of the protection program will not be able to take off, you need to press and hold the GPS button for 5 seconds, the remote control emits a beep, indicating that the GPS function can be turned off and the takeoff can be unlocked.
(Note: Mode1 optical flow mode does not have a series of GPS functions such as low battery return home, one-key return home, etc. Please pay attention to the flight distance and altitude when using it)

Press and hold the video button for 5 seconds, the remote control will make a "drop", indicating that the GPS function is turned off

Mode2: GPS / optical flow dual mode, suitable for outdoor open areas without signal interference. After the drone and remote control are linked, the geomagnetic and gyroscopes are corrected, the display on the remote control changes from Mode0 to Mode1, at this time the drone GPS satellite search and positioning automatically (Drone search should be placed in an open area when searching for satellites, and there should be no obstructions such as high-rise buildings or cars, high-voltage power lines, or the drone will not be able to complete GPS satellite search and positioning), etc. The number reaches about 10, the positioning is completed, the remote control emits a "dip", and the display frequency of the remote control changes from Mode1 to Mode2 to indicate that the positioning is successful, and the takeoff can be unlocked. (Note: GPS mode does not complete GPS
Before positioning, the drone automatically enables the protection program and cannot take off)

FCC Statement:

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.

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.

XiL 193
MAX RTS
GPS Smart Drone
User manual

HD Full HD image transmission
Farther. Faster. Clearer

GPS

- Soar
- GPS Return Home
- Go away
- Way Point Flight
- Intelligent APP Following
- 360° obstacle avoidance
- Ultra HD Aerial Photograph
- 3-axis anti-shake and self-stabilizing gimbal
- EIS electronic image stabilization
- Spiral

Important notices and safety guidelines

You are welcome to purchase our products. In order to make it easier and more convenient for you to use this drone, please read this manual carefully before operating, and please keep this manual in a safe place for future reference for adjustment and maintenance.

Disclaimer

- This product is not a toy, but a precision device that integrates mechanical, electronic, aerodynamics, high-frequency emission and other professional knowledge into one. It requires correct assembly and debugging to avoid accidents. The product owner must use a safe method to operate the control; improper operation may cause serious personal injury or property damage.
- This product is suitable for people who have experience in operating model drones and are not less than 14 years old.
- If you have any questions about use, operation, maintenance, etc., please contact your local dealer or our company. Our company and the seller are not responsible for any loss and damage caused by improper use or operation and human injury.
- The product contains small parts. Keep it out of the reach of children to avoid the danger of accidental eating or suffocation.

laws and regulations

To avoid possible injury and loss from illegal activities, the following items must be observed:
- Never fly near a manned aircraft, and land immediately if necessary.
- It is forbidden to use aircraft on the scene of large-scale events. These venues include but are not limited to: sports competition venues and concerts.
- Never fly in areas prohibited by local laws.
- Ensure that the aircraft will not affect the large manned aircraft on the route when flying. Always be vigilant and avoid other aircraft.

Safety Precautions

The remote control model UAV is a high-risk commodity, so keep away from the crowd when flying. Improper assembly or damage to the body, poor electronic control, and unfamiliar operation can all lead to unpredictable accidents such as damage to the drone or personal injury. Operators must pay attention to flight safety and understand all responsibilities for accidents caused by their negligence.

- Keep away from obstacles and people
  The remote control drone has uncertain flight speed and status when flying, and there is potential danger. When flying, you must stay away from crowds, high-rise buildings, high-voltage power lines, etc., and avoid flying in bad weather such as wind and rain. The commissioning and installation of the drone must be operated strictly in accordance with the operating instructions. Pay attention to maintaining a distance of 1-2 meters from the user or other people when the drone is flying. And the body, causing injury.
- Keep away from humid environment
  The interior of the drone is composed of many precision electronic components and mechanical parts. Therefore, it is necessary to prevent the drone from getting wet or water entering the body, so as to avoid accidents caused by mechanical and electronic component failure. During maintenance, please wipe the surface stain with a clean cloth.
- Avoid manipulation alone
  The remote control drone control technique has certain difficulties in the early stages of learning. To avoid flying alone, you need the guidance of experienced people.
- Proper use of this product
  Please use our original parts for modification or maintenance to ensure the safety of flight. Please operate and use the product within the scope permitted by the product function, and shall not be used for any illegal purpose other than safety regulations.
- Safe operation
  1. Please operate the remote control drone according to your state and flying skills. Fatigue, mental retardation, or improper operation will increase the risk of accidents.
  2. Do not use near your ears! Misuse can cause hearing damage.
  3.After the drone is used, please turn off the battery power and take it out in time, and place it in a cool place to avoid heat and damage caused by the drone for a long time.
- Keep away from high-speed rotating parts
  When the drone rotor is rotating at high speed, please keep the pilot, surrounding people and objects away from the rotating parts to avoid danger and damage.
- Keep away from heat sources
  The remote control drone is composed of metal, fiber, plastic, electronic components and other materials, so it should be kept away from heat sources as much as possible to prevent sunlight, deformation and even damage due to high temperature.
- Environmental requirements
  Discard this product at will, which may have an impact on the environment. Please recycle properly in accordance with local laws and regulations.

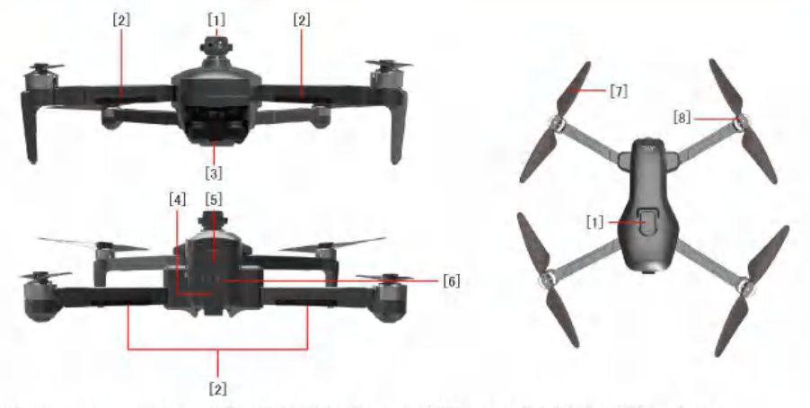
Product Description

Product configuration

Packing List

UHD		EVO	
Drone	x1	Drone	x1
Remote control	x1	Remote control	x1
Body battery	x1	Obstacle avoidance equipment	x1
USB charging cable	x1	Body battery	x1
screwdriver	x1	USB charging cable	x1
Spare Propeller (2)	x2	screwdriver	x1
Manual	x1	Spare Propeller (2)	x2
		Manual	x1

Drone part names



[1] Obstacle avoidance equipment [2] LED light [3] HD camera [4] Power switch [5] Smart lithium battery
[6] Power indicator [7] Wind blade [8] Motor [9] LED light

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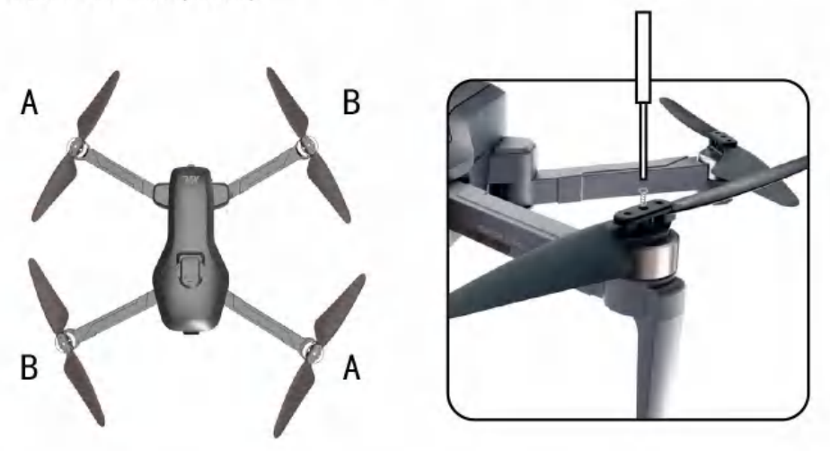
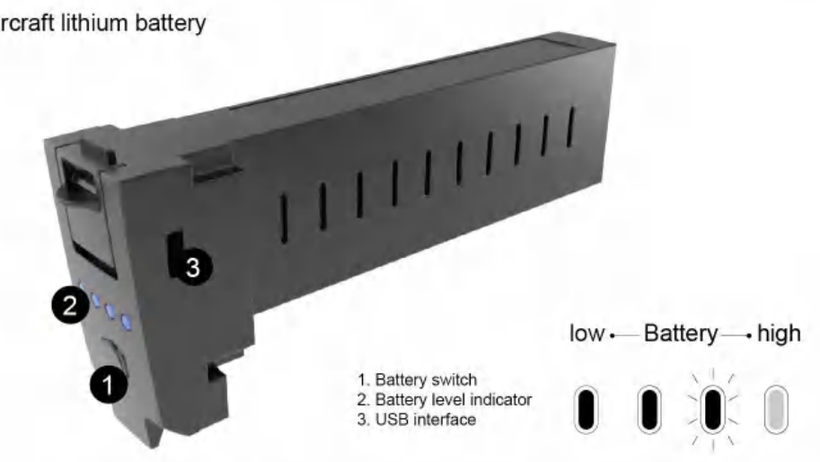
1. Propeller installation

Please make sure that all propellers are installed in the correct orientation as shown in the figure below. If the installation is incorrect, the aircraft will not fly normally.



2. Aircraft lithium battery

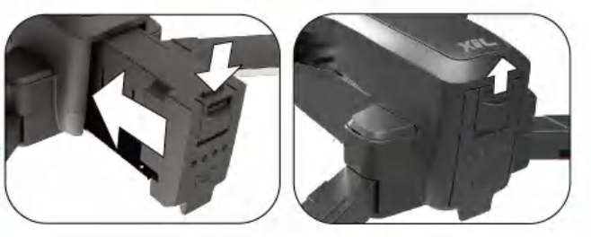


1. Battery switch
2. Battery level indicator
3. USB interface

-Press and hold the power button for 3 seconds to turn on, and then press and hold the power button for 3 seconds to turn off.
-Once the battery is in a low power state, and there is 1 light left in the battery indicator, please charge the battery immediately to avoid unnecessary losses.

Battery installation

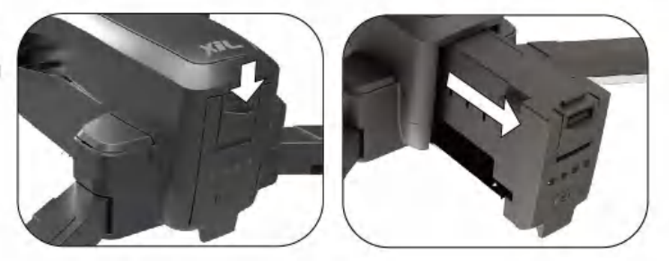
Press the battery button down, and then push the battery into the drone battery holder. After the installation is complete, the battery clip will pop up and check to ensure that the battery is in place.



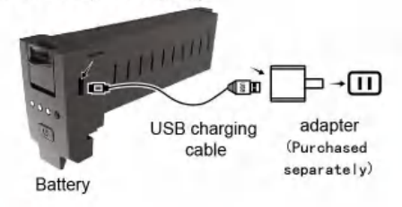
⚠ Tips: If the battery is not installed properly, it is likely to cause a drone to interrupt the power supply and fall accident.
After the drone is used, please turn off the battery power and take it out in time, and place it in a cool place to avoid heat and damage caused by the drone for a long time.

Battery removal

Press the battery latch and remove the battery backwards.
Keep fingers and machine clean and dry before operation, otherwise the battery may not be slipped out.



Drone battery charging



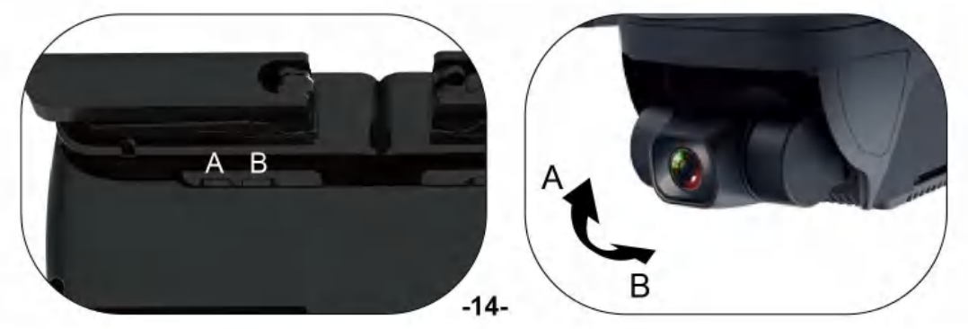
⚠ Tips:
- Insert the plug in the correct way.
- It is recommended to use 5V 1-2A adapter for charging.

⚠
- When charging the rechargeable battery, do not use it for children alone. It must be carried out under the supervision of an adult. It must be kept away from flammable materials during charging. The guardian should not leave the aircraft outside the surveillance range during charging.
- Do not short circuit or squeeze the battery to avoid explosion.
- The power supply terminals should not be taken out of the model, and the terminals should not be short-circuited; do not short-circuit, disassemble or throw the battery into fire; do not place the battery in high temperature and heat places (such as in a fire or near an electric heating device).
- The model can only use the recommended charger. Regularly check the charger's wires, plugs, shells and other parts for damage. If you find any damage, stop using it until the repair is complete.
- The charger is not a toy; the charger can only be used indoors.
- The battery must be charged and stored after the flight. If not in use, it is recommended to charge the battery at least once every 3 months to avoid over-discharging the battery and permanently damaging the battery.

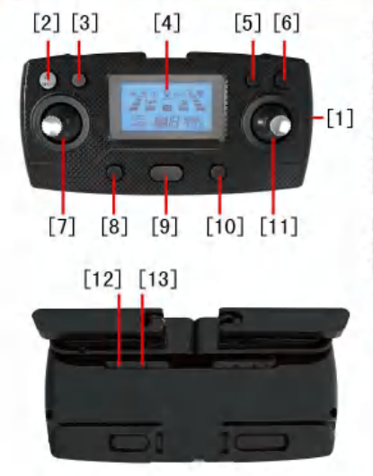
⚠ Reminder: The camera needs to be used with the real-time transmission APP. For the download process, please refer to the APP manual, and for the camera function description, please refer to the APP.

3.PTZ camera control

By turning the PTZ button on the remote control, you can adjust the shooting angle of the PTZ camera to 110 ° to experience a better aerial photography process.
When the left button is pressed, the camera is adjusted in the direction of A; when the right button is pressed, the camera is adjusted in the direction of B.



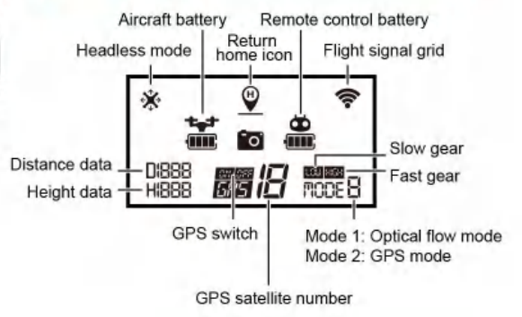
Remote control part names



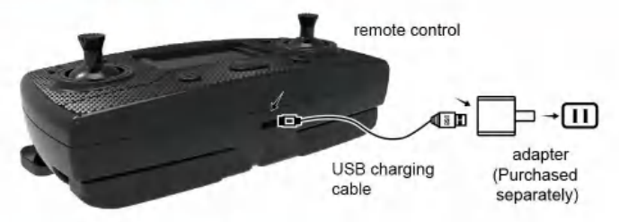
[1] Remote control power switch
[2] Accelerator key/long press for 5 seconds to calibrate the gyroscope
[3] Return home
[4] LCD display
[5] Video button
[6] Camera button/long press for 5 seconds to correct geomagnetism
[7] Ascend, descend, turn left, turn right
[8] One-key take-off/one-key descent
[9] GPS switch
(the default GPS mode is turned on, the GPS needs to be turned off before the optical flow mode takes off)
[10] Headless mode
[11] Fly right and left, forward and backward

[12] Camera up
[13] Camera down

LCD display



Remote control battery charging

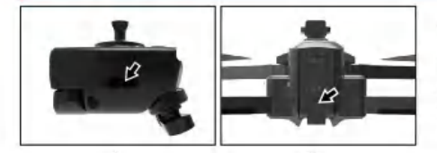


⚠ Tips:
- Insert the plug in the correct way.
- It is recommended to use 5V 1-2A adapter for charging.

Pre-flight inspection

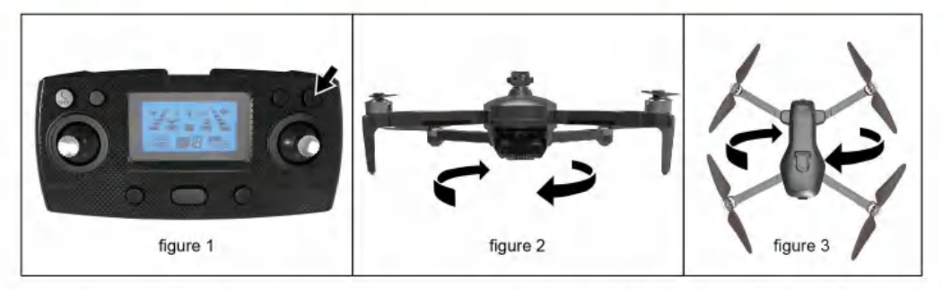
1. Are the batteries of the remote control and drone sufficient?
2. Whether the blades are installed correctly.
3. Whether the motor starts normally after booting.

Drone pairing



The remote control is turned on and the indicator light flashes. Press and hold the drone battery switch, the battery indicator lights up from left to right, the drone light flashes, the remote control indicator light changes from flashing to long light, and the code is successfully matched.

Geomagnetic correction function



After the drone is successfully linked, press and hold the remote control camera button for about 5 seconds (Figure 1), the remote control will beep once, the drone light will flash quickly, pick up the drone 1 meter from the ground and turn it clockwise 3 (Figure 2), at this time, the remote control drops a beep and the drone is erected, the camera is facing downward (Figure 3), and the clockwise turn of the remote control drops the drone light once every 1 second. can.

Tips: Please make sure that the take-off environment is open, and the satellite signal is greater than 7 stars before take-off.

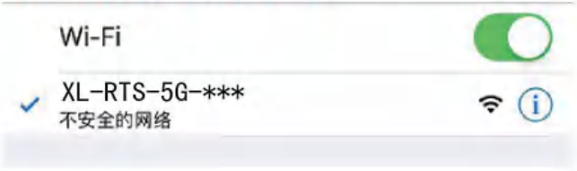
- Do not perform calibration in areas with strong magnetic fields, such as magnetic deposits, parking lots, construction areas with underground steel bars, etc.
- Do not carry ferromagnetic materials with you during calibration, such as keys and mobile phones.
- Do not calibrate near large pieces of metal.

Drone gyroscope and gimbal level correction

Place the drone still on a horizontal surface, and press and hold the remote control for 5 seconds to make a beep. As shown in the figure, the drone light changes from fast flashing to slow flashing.

Connect with APP (mobile phone needs to support 5G-WiFi signal function)

Turn on the mobile device to scan the QR code on the APP instruction manual and download the APP, then turn on the WIFI function of the mobile device, select "XL-RTS-5G-*** {serial number}" in the WIFI list, and exit the interface. To open the app.
Notice:
If the remote control is turned off during the flight of the drone in Mode1 mode, the remote control signal and the image transmission signal of the drone will be interrupted.
The drone will land vertically on the spot.
If the drone turns off the remote control while flying in Mode2 mode, the drone remote control signal and image transmission signal will be interrupted.
The UAV will automatically return to home after the signal is cut off.



Wi-Fi
✓ XL-RTS-5G-***
不安全的网络

Remote control dual mode

The default Mode2: GPS / optical flow dual mode when booting. When the Mode2 mode is enabled, it needs to be used outdoors in an open place without signal interference such as high-rise buildings and high-voltage wires.
Mode1: Optical flow mode. When using this mode, you need to turn off the GPS function before taking off.
[Cannot turn off Mode 2 (GPS mode) after GPS positioning]

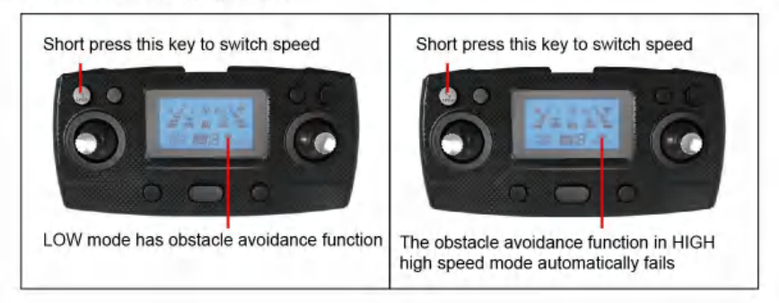
Mode switch

1. Mode 1: [Optical Flow Mode] is suitable for indoor open spaces. After linking the drone and the remote control, calibrating the geomagnetism and gyroscope, the display of the remote control will change from Mode0 to Mode1, and the drone will automatically proceed at this time. GPS search satellite positioning, automatically activate the protection program will not be able to take off, you need to press and hold the GPS button for 5 seconds, the remote control will emit a beep, indicating that the GPS function can be turned off and the takeoff can be unlocked. (Note: Mode1 optical flow mode does not have a series of GPS functions such as low battery return home, one-key return home, etc. Please pay attention to the flight distance and altitude when using it)

2. Mode 2: [GPS / optical flow dual mode] It is suitable for outdoor open areas without signal interference. After the drone and remote control are linked, the geomagnetism and the gyroscope are corrected, the display on the remote control changes from Mode0 to Mode1. UAV automatically performs GPS satellite search and positioning (Drone search is placed in an open area, and there are no high-rise buildings or cars, high-voltage wires and other obstructions around it, otherwise the drone may not be able to complete the GPS satellite search and positioning), When the number of satellites reaches about 10, the positioning is completed, the remote control emits a "drop", the remote control display changes from Mode1 to Mode2 to indicate that the positioning is successful, and you can unlock the takeoff.
(Note: Before GPS mode is completed, the drone will automatically take off the protection program and it will not take off)

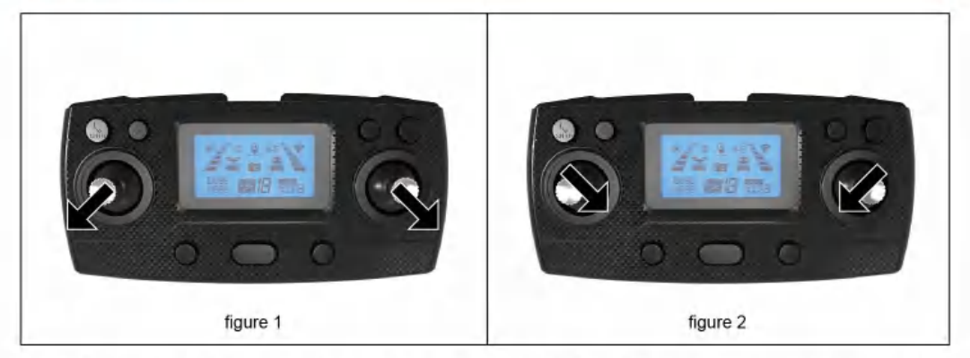
LOW gear switch HIGH gear

Note: The product is turned on by default in low-speed gear mode, and the drone has obstacle avoidance functions. If you switch to high gear mode, the drone obstacle avoidance function will automatically fail. At this time, the drone will not have all obstacle avoidance functions.
Need to pay attention to the flight height and distance, pay attention to the surrounding flying environment, to avoid damage to the drone due to improper flight.



Short press this key to switch speed
LOW mode has obstacle avoidance function
Short press this key to switch speed
The obstacle avoidance function in HIGH high speed mode automatically fails

Drone unlock



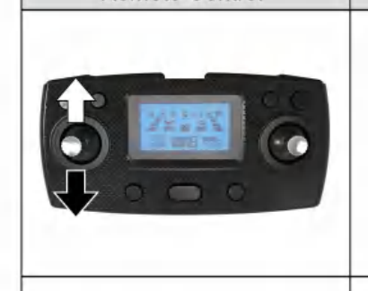
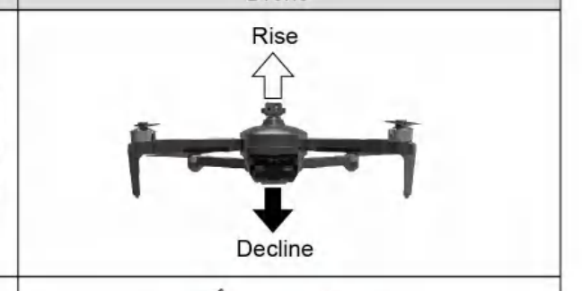
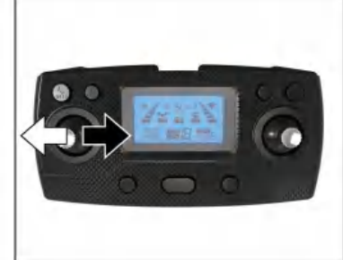
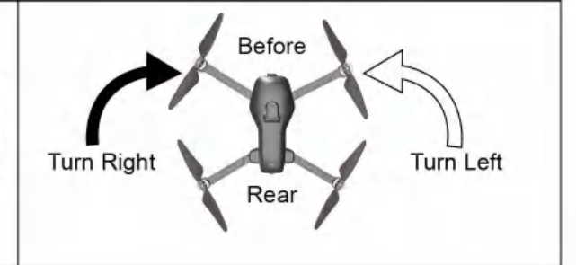
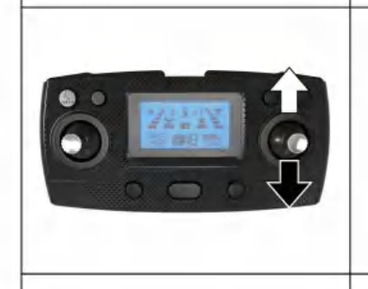
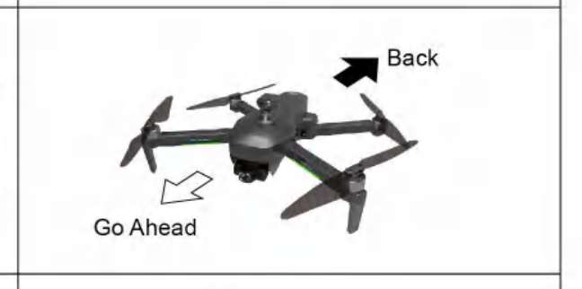
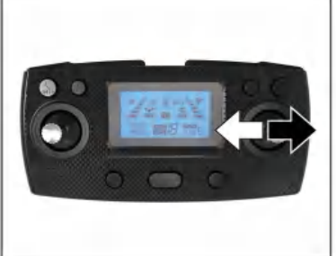
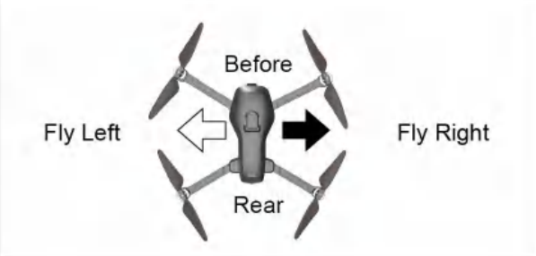
At this time, the throttle stick and the directional stick are pushed to the lower left corner and the lower right corner at the same time (Figure 1), or pushed to the lower right corner and the lower left corner (Figure 2) at the same time, the unlocking can be completed and the motor can fly after starting.

Basic flight

Basic flight steps

1. Code the remote control with the drone, and the drone completes the initialization.
2. Geomagnetic calibration. (Do not need to calibrate each time at the same location)
3. After the drone gyroscope is detected, unlock the drone.
4. Push the throttle stick up, the drone will take off, and the left / right joystick will control the attitude of the drone.
5. Turn off the power of the drone first, and then turn off the power switch of the remote control.

Flight control method

Remote Control	Drone
	 Rise Decline
	 Before Turn Right Turn Left Rear
	 Back Go Ahead
	 Before Fly Left Fly Right Rear

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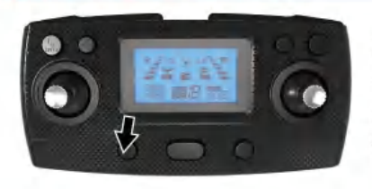
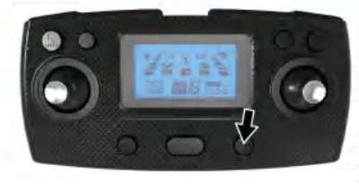
Flight mode

One-click takeoff / landing



- After the drone is unlocked, press the one-button take-off button briefly, and the drone will automatically take off to hover at a height of about 1.5 meters.
- When the drone is in flight, press the one-button take-off button briefly, and the drone will automatically land on the ground.

Headless mode



Press the headless mode button, the remote controller will make a "dipping" sound. When the drone is unlocked, the direction pointed by the nose is directly in front of the flight. During the flight, rotate the drone in the direction to direct the flight. When the drone is unlocked, the direction the nose points.

Home Return (Not available in Mode 1 optical flow mode)

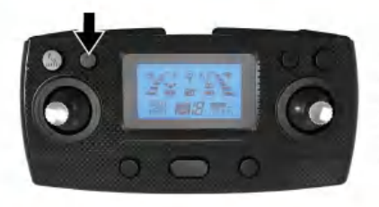
The drone has a home function. If the home point is successfully recorded before takeoff, the communication signal between the remote control and the drone is lost or the home key is pressed, the drone will automatically return to the home point and land to prevent accidents.

There are three different ways for drones to return home:
1. One-click return
2. Signal return
3. Low battery return.

⚠ Note for return flight:
- During auto return, the drone cannot avoid obstacles.
- When GPS signal is not good or GPS is not working, you cannot return to home.

Home Point: When taking off or during flight, when GPS receives 7 or more stars for the first time, it will record the current position of the drone as the home point.

One-click return



When the GPS signal is good (the number of satellites is greater than 7), you can start the drone home by pressing the one-way home button on the remote control. The home process is the same as the uncontrolled home. Use the stick to control the drone to avoid obstacles. Press the home button again to exit home, and the user can regain control.

Signal return

The GPS signal is good (the number of GPS satellites is greater than 7), the compass is working normally, and after the drone successfully records the home point, if the remote control signal and the APP signal are off for more than 6 seconds, the flight control system will take over the control of the drone Control the drone to fly back to the signal and stop.

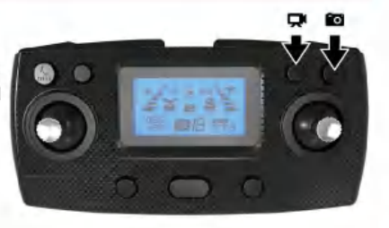
Low battery return

After the drone is low-voltage, the indicator light will flash slowly. At this time, the drone will automatically return to the vicinity of the takeoff point 20 meters. (After the low-power drone returns to the vicinity of the take-off point, the height and distance of the drone will be limited to 20 meters)

⚠ Reminder: The drone is in the low-power return mode, and the remote control cannot cancel the return mode.

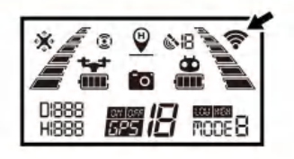
Photo / Video

Press the remote control " 📷 " button to take a picture, the remote control LED screen display icon " 📷 " flashes, press the remote control " 🎥 " button to record, the remote control LED screen display icon " 🎥 " has been slow flashing, then press the " 🎥 " button to exit the recording .



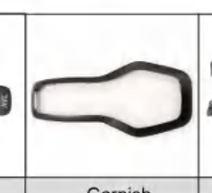
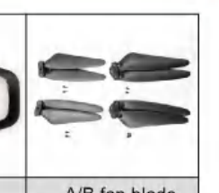
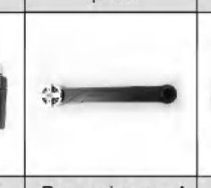
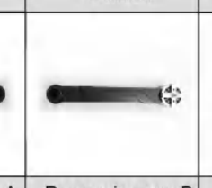
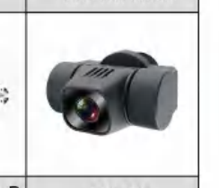
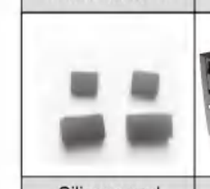
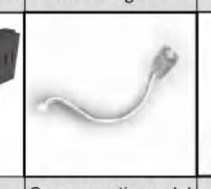
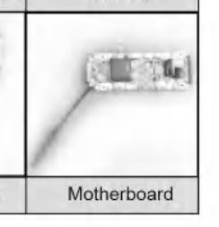
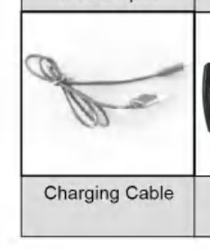
Received signal strength indication

The icon " ıll " is the received signal strength indication. The more the number of segments is displayed, the stronger the signal is, and the weaker the signal is.



Product parts

Basic parts

 Upper shell	 Lower shell	 panel	 Garnish	 A/B fan blade
 Front rocker A	 Front rocker B	 Rear swing arm A	 Rear swing arm B	 camera
 Silicone pad	 battery	 Geomagnetic module	 GPS module	 Motherboard
 Charging Cable	 remote control	 Obstacle avoidance equipment		

Don't panic if you encounter problems

No.	problem	Solution
1	Mode 1 The drone motor can rotate, the aircraft cannot take off, the lights flash quickly and slowly	Without turning off the GPS function, the drone has a protection program Long press the GPS switch for 5 seconds to turn off the GPS function
2	After the GPS function is turned off in Mode 1, the drone motor can rotate and the drone cannot take off. The lights flash quickly and slowly	Recalibrate the geomagnetism after restart
3	After take-off in Mode 1, the drone keeps blinking and cannot hover.	The ground is too smooth and the environment is too dark, which will cause the optical flow lens to be unstable. Please get a good light and fly in a place where there is no reflection on the ground.
4	After taking off in Mode 2, the drone keeps blinking and cannot hover. It floats around. The remote control always switches between Mode 1 and Mode 2.	GPS positioning is not good, interference is too big, please get open, unobstructed, no high voltage wires
5	Mode 2 The drone motor can rotate, the aircraft cannot take off, the lights flash quickly and slowly	Recalibrate the geomagnetism after restart
6	Drone shakes a lot	The blade is deformed or damaged, it needs to be replaced
7	When the picture is tilted during aerial photography	Land the drone to a flat ground and perform the gimbal level correction again.
8	For example, the obstacle avoidance device can rotate normally during the flight, but there is no obstacle avoidance function	Land the drone to a level ground, turn off the power and restart
9	During the flight, the obstacle avoidance device cannot rotate normally and has no obstacle avoidance function	Land the drone, turn off the power, pull out the obstacle avoider, reinstall the obstacle avoider, and turn on the power

Software instruction manual

Software installation instructions

(1) Scan the QR code to download and install the APP, and support Google iOS and Android.

IOS system
Android system

(2) Turn on the power of the drone, turn on the power of the remote control, the drone and the remote control will automatically link to each other after powering on, and the remote control light will change from flashing to long on with a beep, indicating successful linking

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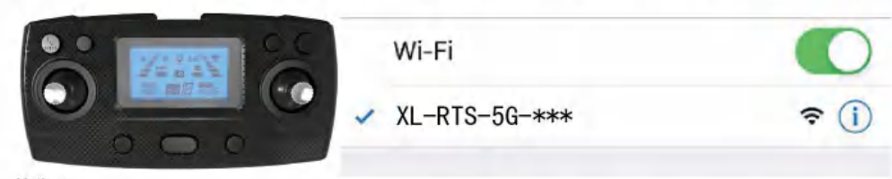
(3) In the mobile phone settings, click on the wireless LAN, as shown in the figure below, select the "XIL-RTS-5G-****** (serial number)" network and connect, and then open the mobile APP to use.



Wi-Fi
✓ XL-RTS-5G-***

Notice:
If the drone turns off the remote control while flying in Mode1 mode, the drone's remote control signal and image transmission signal will be interrupted, and the drone will land vertically on the spot.
If the drone turns off the remote control while flying in Mode2 mode, the drone's remote control signal and image transmission signal are interrupted, and the drone will automatically return to home after the signal is interrupted.

Flight considerations

1. The aircraft is not suitable for minors under 14 years of age!
2. Choose an open place with no obstacles around as the flight field.
3. Do not use under severe weather, such as heavy snow, rainy and foggy days, and strong winds.
4. When flying, please stay away from obstacles, crowds, high-voltage lines, trees, and water.
5. Do not fly in places with complex electromagnetic environment to avoid interference with remote control/video transmission.
6. Do not fly in no-fly areas restricted by relevant laws or regulations.
7. Before starting the flight, check whether the aircraft is in good condition to ensure that the rotors are deployed, the blades are in good condition and there is no looseness, and the power is sufficient.
8. Do not touch the rotating propeller.

Flight environment

👍 Open and unobstructed · Sight range · Control the flight altitude below 120 meters (120m) · Good signal without interference

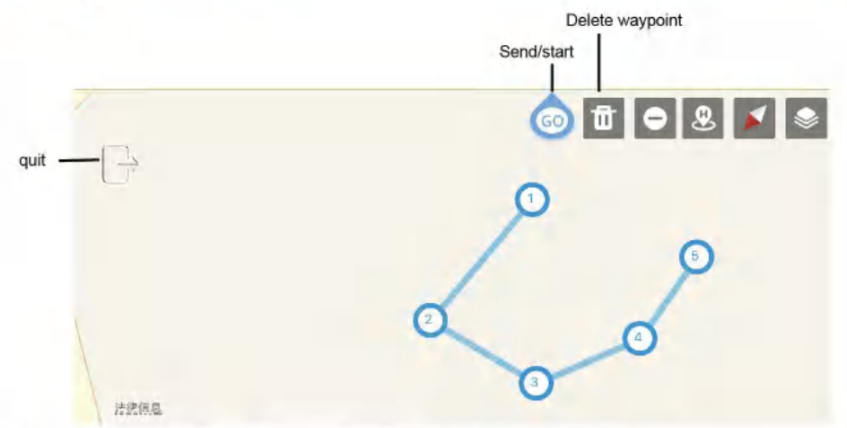
⚠ Stay away from crowds, trees, wires, tall buildings, signal towers, etc. when flying

🚫 Please refrain from flying in rain, fog, snow, strong wind, thunder and lightning. · It is not allowed to fly in the no-fly zone!

Basic interface

- Waypoint flight
- Flying around
- GPS follow
- Soar
- Go away
- Spiral
- music
- VR
- folder
- enlarge
- Lens switching

Route planning



Draw waypoint: click to add waypoint on the map, click send after drawing, start waypoint flight

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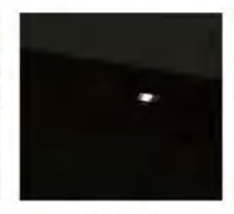
Lower visual optical flow positioning

The optical flow positioning effect is best at 0.5-10M

Scenes such as water surface, ground smooth, dark scenes, black and white stripes, etc. affect the fixed-point effect

water surface

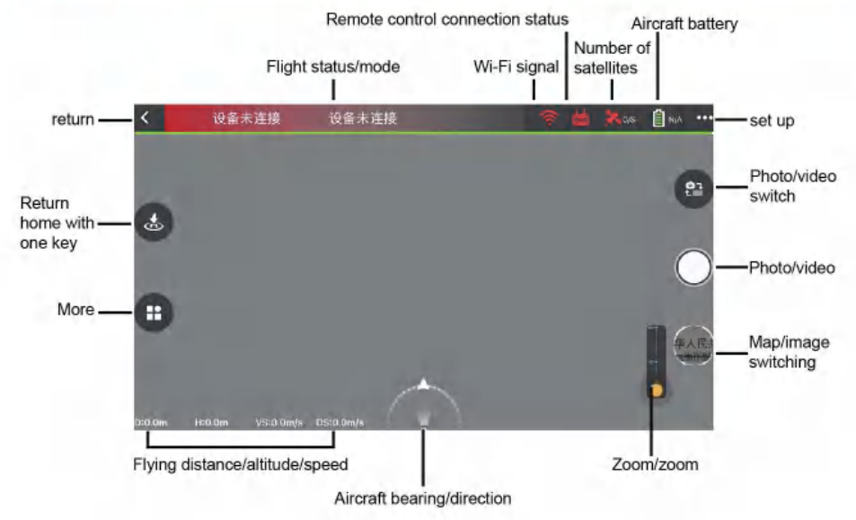


Dim scene

Smooth ground

Black and white stripes on the ground

Basic interface



Flying around

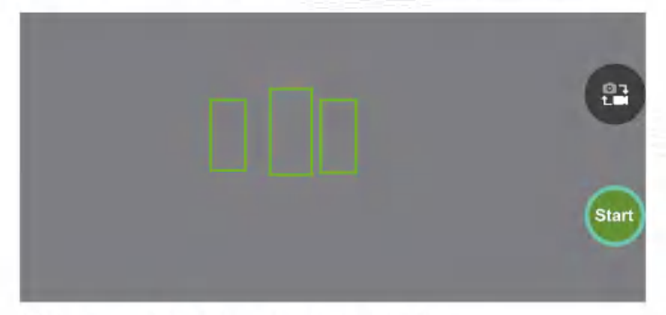
1. Click start to enter surround mode
2. Change the surrounding radius of the remote control joystick front and back
3. The remote control stick left and right to change the surround direction and speed

Follow flight

1. Click start to enter follow mode
2. The aircraft will move with the mobile phone
⚠ Note: Ensure that the flight path is free of obstacles and that the mobile location service is turned on.

spiral

1. Click start to enter spiral mode
2. Select the maximum radius of the spiral and confirm
3. Adjust the direction and distance of the aircraft so that the target is in the image



4. Select the target, click the start button to start spiral flight
5. To stop, press ● to stop recording or move the joystick of the remote control

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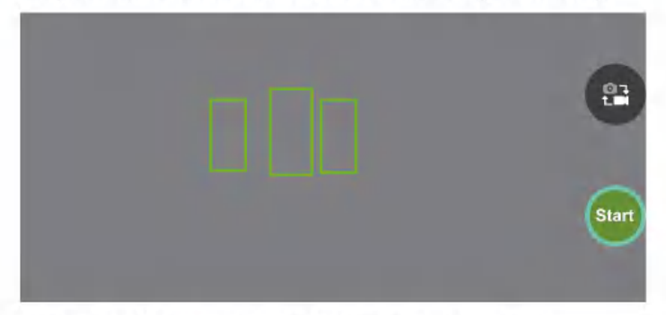
Soar

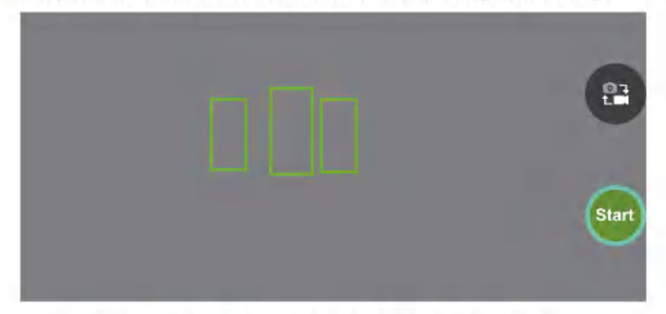
1. Click Start to enter the skyrocketing mode
2. Select the maximum height of the cupola and confirm
3. Adjust the direction and distance of the aircraft so that the target is in the image



4. Select the middle target and click the Start button to start skyrocketing
5. To stop, press ● to stop recording or move the joystick of the remote control

Go away

1. Click start to enter the fade mode
2. Select the maximum distance of gradual distance, confirm
3. Adjust the direction and distance of the aircraft so that the target is in the image



4. Select the middle target and click the Start button to start flying away
5. To stop, press ● to stop recording or move the joystick of the remote control

other

1. Aircraft calibration, please place the aircraft on a horizontal surface before performing calibration
2. It is forbidden to use one key to fly away, one key to sky, and one key to spiral indoors