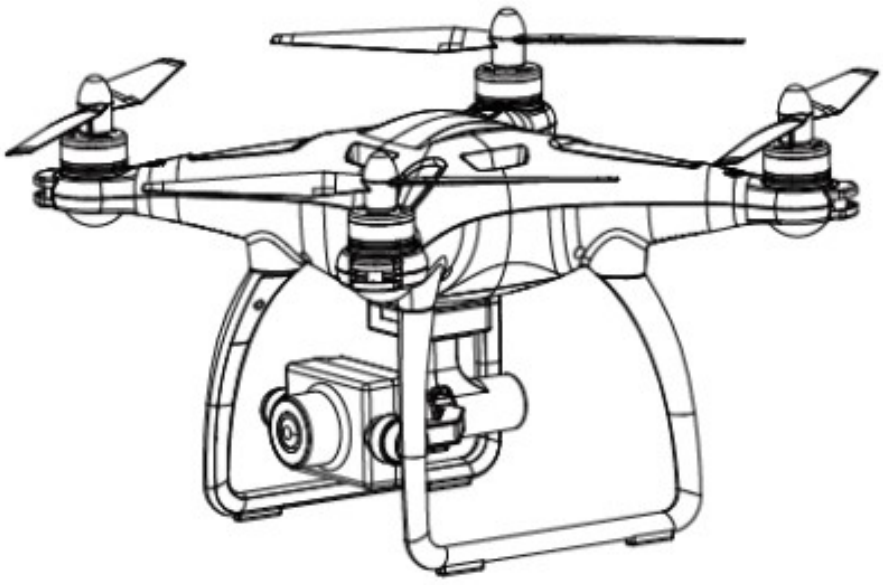
SIMREX Z11-GPS Drone with Bubble Machine Instruction Manual

Contents

1 SIMREX Z11-GPS Drone with Bubble Machine Instruction Manual
2 Flight safety precautions
3 Caveat
4 Tips!
5 Machine packing list
6 Remote control function indication
7 Remote control and aircraft binding
8 First flight command
8.1 Aircraft operation method: accelerator
9 Lift
10 Charging batteries
11 Note,&
12 Propeller and protection frame installation
13 Aircraft power 1nd1cator
14 Special Nole:
15 Callbratoon magnetic sensor
16 Precautions
17 Warning for Android
18 APP Operation Instructions
19 Instructions: 360 ios
20 Waypoint planning model
21 Low el ectricity return and electronic fence
22 Gyroscope Cali bration
23 Turn off GPS manual control mode
24 Start your first flight
25 One button unlock/ One key landing
26 One-key return
27 Headless mode
28 Remote control left and right hand conversion
29 Read More About This Manual & Download PDF:
30 Documents / Resources
31 Related Posts

SIMREX Z11-GPS Drone with Bubble Machine Instruction Manual



Flight safety precautions

Before the flight, please know safety precautions first, familiarize yourself with your aircraft and then operate,

1. This is not a toy and it is not for children under 14 years old,
2. Do not touch the rotating propeller, it may cause injury.
3. Please take a safe distance from your aircraft during the first flight to avoid damage caused by improper operation.
4. Do not fly near crowds.
5. Do not fly when the weather Is bad.
6. Please keep the aircraft In sight, away f rom obstacles, high-voltage lines, trees, water, etc.
7. Do not fly In the relevant laws or restricted no-fly zones.
8. Do not fly within the Arctic Circle.
9. Do not fly In a place where the electromagnetic emblazonment Is complicated, such as a base station or a transmission tower light.
   Otherwise, the GPS signal may be weak or the remote control may be disturbed, causing the aircraft to become Inoperable.

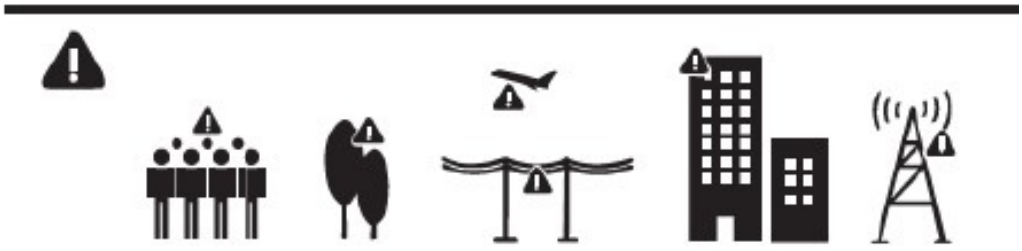
Caveat

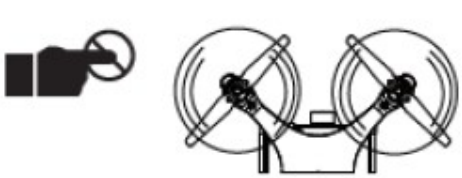
Keep a safe distance from the propeller that rotates at high speed to avoid the risk of streaking and cutting.

Tips!

The video recorded In SD Is best played on the computer.

Avoid Hying over or near obstacles, crowd s,hlgh voltage power llnes ,trees, airport or bodlse of water.
DO NOT fly near strong el cryomagnetic sources such II power lines and base stlons as II mat■tract the onboard compass,



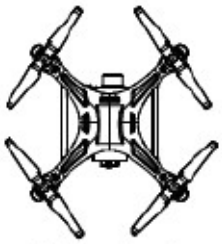


Stay away from the rotating propellers and motors

It’s Important to understand basic flight guidelines, for Iha safety of both you and those around you .Don’t forget to read the Safety Guldellnes before flight.

Machine packing list

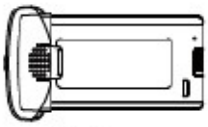
Instruction manual x1



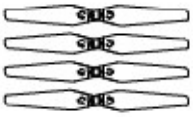
Aircraft x1

USB charging cable X1

remote control x1



lithium battery x1



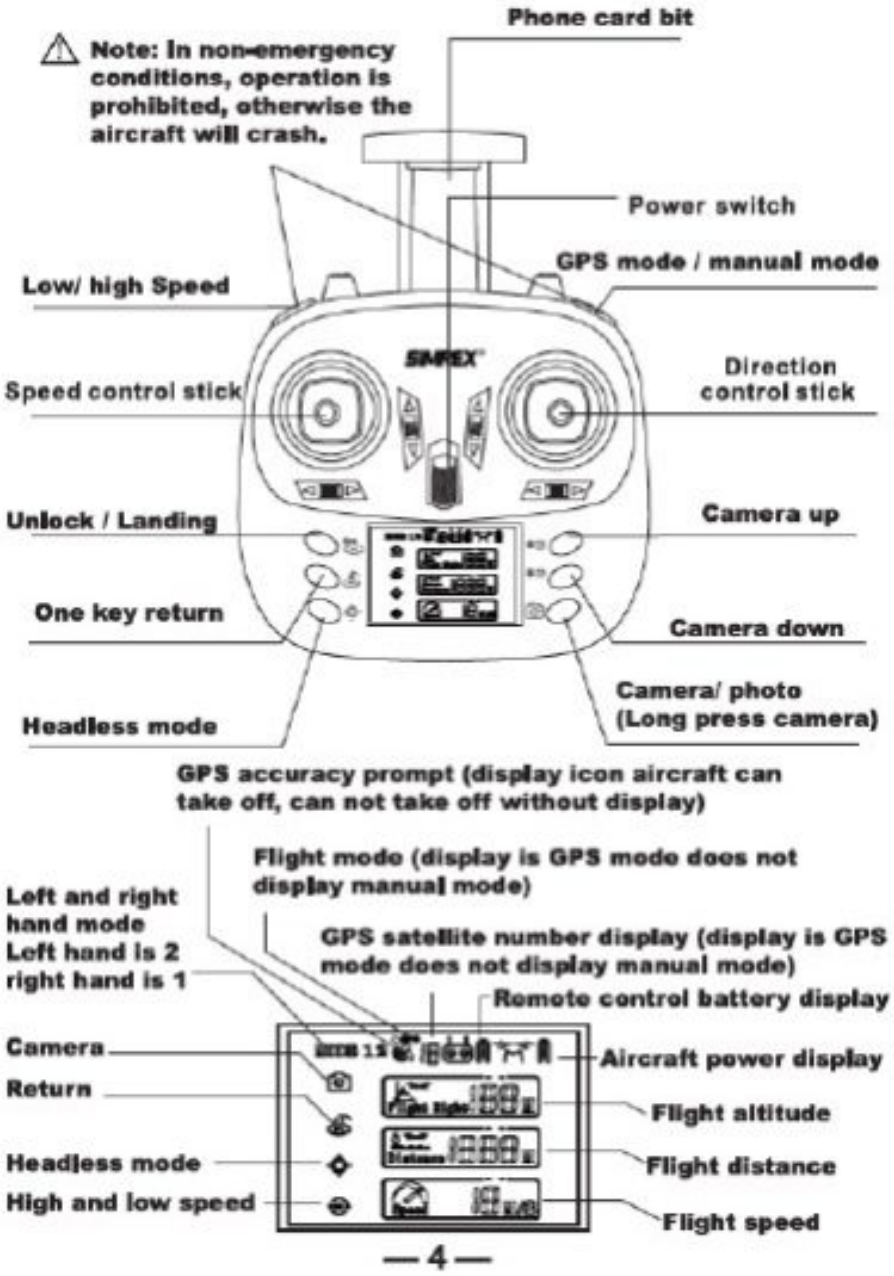
propeller x8

Phillips x1 screwdriver

Bull bars x4

specification	parameter
Product Size	Diagonal wheelbase 250mm
Flight weight	About 440g
flight time	About 20 minutes
Battery parameters	7.6V 3150mAh
Flight distance	About 500 meters (depending on the mobile phone and the surrounding electromagnetic environment)
Flight height	200 metres

Remote control function indication

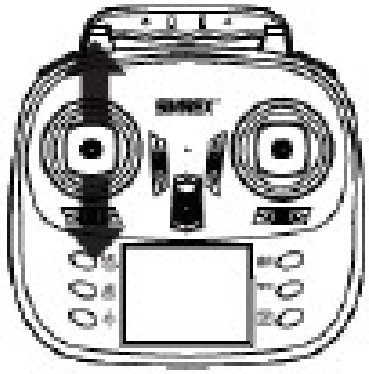


Remote control and aircraft binding

1. The aircraft is loaded with batteries, placed on a level ground, aircraft auto auto bihdir1g mode. and the yellow light of the rear arm lights flashes quickly.

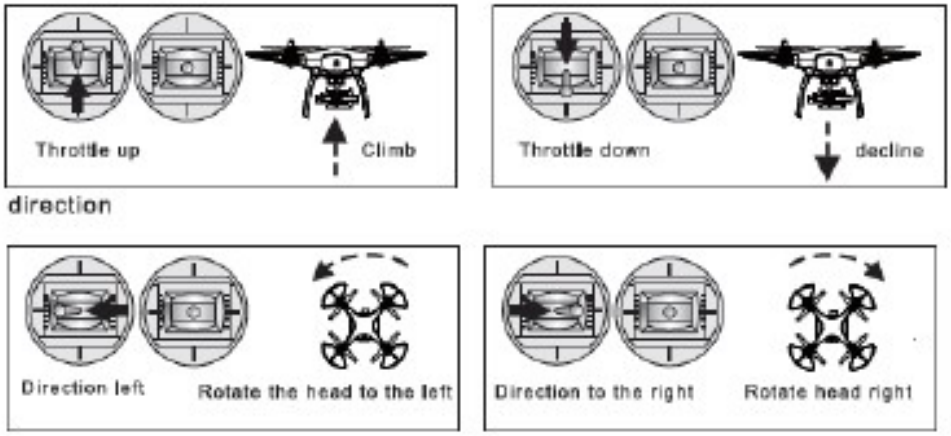
2. Turn on the remote control and hear ·or. The throttle stick push up to the top and then push to the bottom. The remote control will sound “Ol”againbinaing succeed. the red and green lights flash alternately at rear of drone,

and get Into signal reception mode.

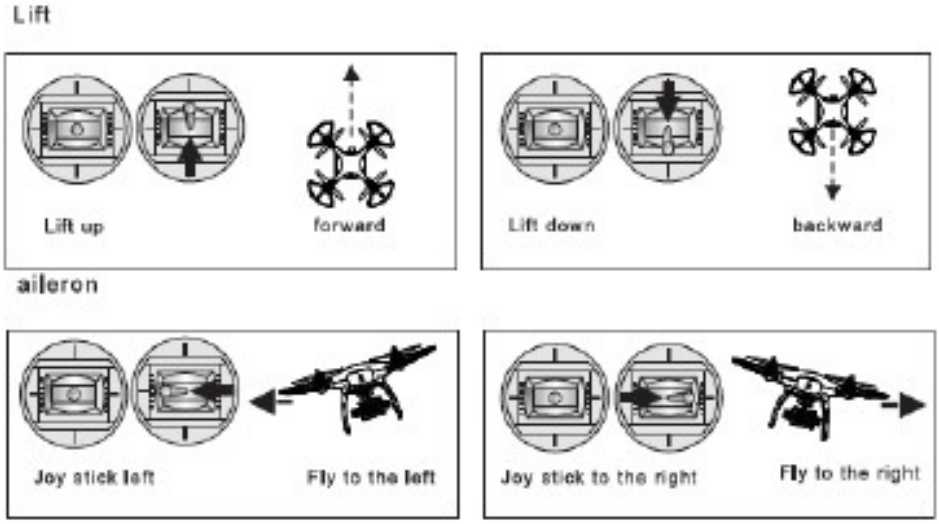


First flight command

Aircraft operation method:
accelerator



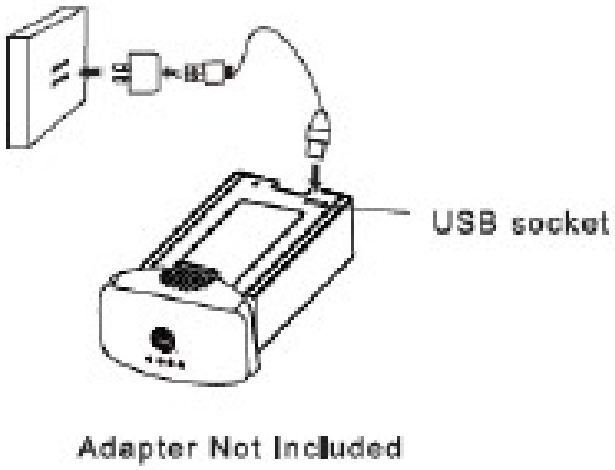
Lift



Charging batteries

The charger is designed to charge the LiPo battery safely. Fly to the right

1. Connect the charger to the AC power supply 100-240V, 50/60Hz. Use the power adapter If necessary.
2. The optimal charging temperature range is 5• .40•.
3. Please use a 1.5-2A charger such as a mobile phone charger to reduce charging time.
4. Remove the USB cable from the package and insert the other end of the phone charger Into the USS port of the battery.
5. The indicator light on the battery lights up to indicate that charging is in progress, and the red light is off indicating charging is complete.
6. Charging time is about 350 minutes.



Note,&

All Instructions and warnings must be strictly followed. Improper handllng of Li Po batteries may cause fire, personal injury or property damage.

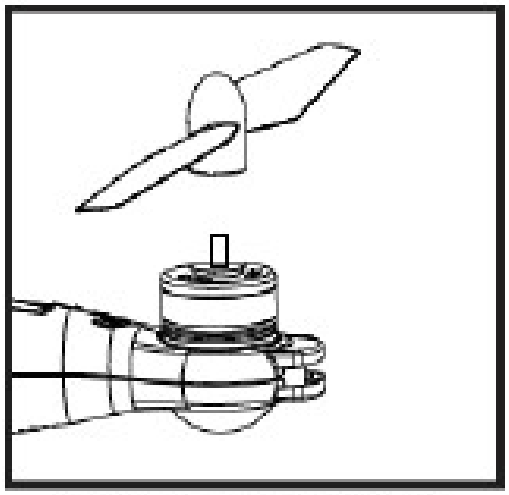
1. Please do not exceed the recommended charging voltage and current, If the battery starts to swell under any circumstances, stop using it immediately. Failure to do so may result in fire.
2. If the battery Is severely deformed or broken due to Improper operation, stop using it immediately. Failure to do so may result in fire.
3. Do not put the battery into f ire or heat the battery.
4. The battery must be stored at room temperature and dry place.
5. Do not store the battery in or in direct sunlight.
6. Do not pierce the battery case with a sharp object and avoid hi tting the battery.
7. Do not use a nickel-cadmium or nickel-metal hydride battery charger. Rechargeable battery charge with an Incompatible charger may cause a fire.
8. When the battery voltage is lower than 7V, the flying power will be greatly reduced. please charge in time.
9. When the battery is not used for a long period of time, please charge the battery to a s!ngle 3.7V/two sections of 7.4V and store In a dry environment.

Propeller and protection frame installation

1. Install the propeller into the brushless motor in the direction of the arrow and disassemble the propeller

according to the Indication or the unlocking on the propeller. After the propeller is in place, it can be lightened with light force. Do not use loo much force to avoid disassembly.

2. If you do not have flying experience, please remove the decorative parts and install a protective frame to prevent the propeller from hitting people or other objects:
3. Use a screwdriver to loosen the screws under the card slot, then push the protection frame into the card slot and tighten the screws with a screwdriver.

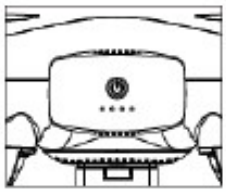


A propeller to A engine arm
B propeller to B engine arm

Aircraft power 1nd1cator

Aircraft power indicator

Indicator status	Electricity
● ● ● ●	100%
● ● ●	75%
● ●	50%
●	25%



Aircraft taillight status indication

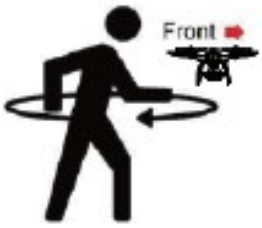
Attitude mode	LED lights	Instructions
Power automatc thsoeition	● ● ● ● ● ● ● ●	Rear light yellow flash
Satellite signal searching	● ● ● ● ● ●	Alternating red and green, indoor mode or waiting for satellite status
Satellite signal searching done	● ● ● ● ● ●	2 Green-dark satellites with more than 6 satellites can fly safely
follow me	● ———	Green light, follow mode
Points of interest around	● ● ● ●	Green light flashes slowly, interest point surround mode
Return flight	● ———	Red light, return mode
A low-level electricity	● ● ● ●	The red light flashes slowly
Secondary low electricity	● ● ● ● ● ● ● ●	The red light flashes automatically to land.

Special Nole:

1. For the first flight. It Is recommended to recalibrate the magnetic compass to ensure the flight is stable.
2. The callbratlon needs to find a flat site, to ensure the level of the aircraft and the ground as much as possible,
3. After the aircraft enters the horizontal calibration procedure, it is necessary to keep the aircraft stationary until the calibration Is successful.

Callbratoon magnetic sensor

» Long press the gear button, the remote control emits a drip sound, the rear arm lamp of the aircraft lights red, and the sensor Is calib rated to geomagnetism. •
» The aircraft is horizontally rotated 360 degrees to calibrate the X-axis. When the rear-arm lamp turns green, the X-axis calibration completes the aircraft's further head•up 360•degree rotation •
» After the aircraft, the light returns to the green light slowly flashing (with a star") or the red light green light alternately flashing {searching for a star) s tate, the calibration is completed.



X-axis calibration, aircraft horizontal rotation

Y-axis calibration, aircraft vertical rotation

Precautions

This product is not a toy. Please read the instructions carefully for initial use or be Instructed by someone, with flying experience.
The blades must be properly installed, otherwise the aircraft will not be ableto fly.
Please recalibrate the magnetic sensor if you dhange another playing place.
Automatic return operation cannot be performed when there is no GPS signal or attitude mode.
If there is a secondary low voltage alarm, please fly the aircraft in its own direction and land ii as soon, as possible.
Wind blade damage will affect the flight. Please replace it in lime.

Warning for Android

Because each Android phone uses a different 5G module, resulting in a large difference in distance. some mobile phones have a difficulttransmission distance of 500 meters.
There were no SG modules in Individual mobile phones and it was not possible to connect to the a ircraft's SG WIFI. We suggest replacing smartphones launched after 2017.

APP Operation Instructions

Ready

Scan QR code to download and install control software for iPhone and Android.

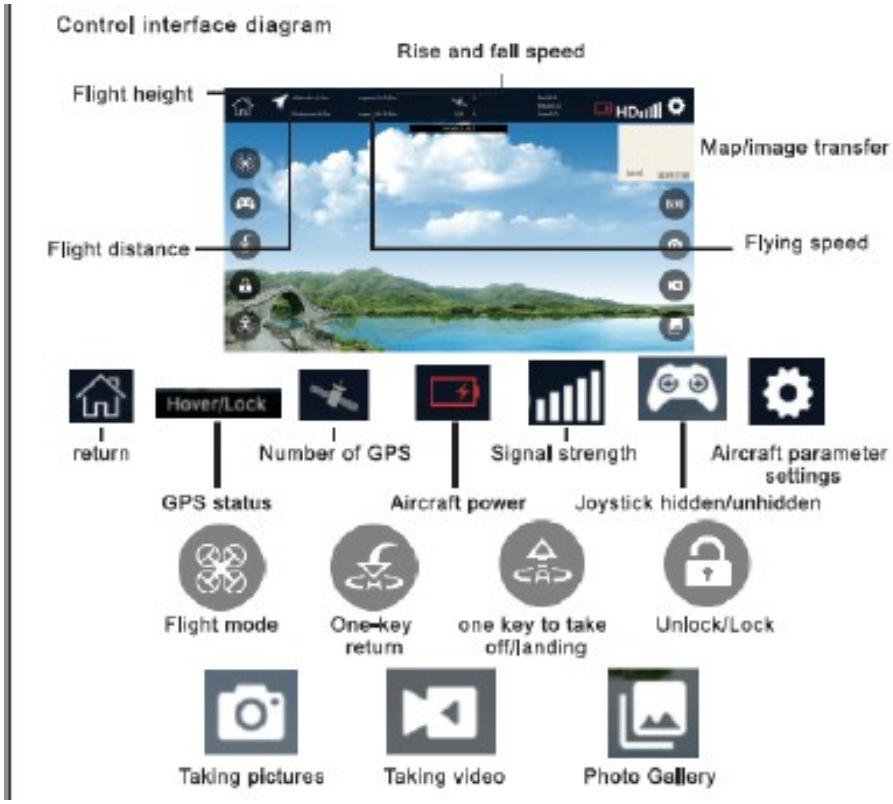
Google play

360

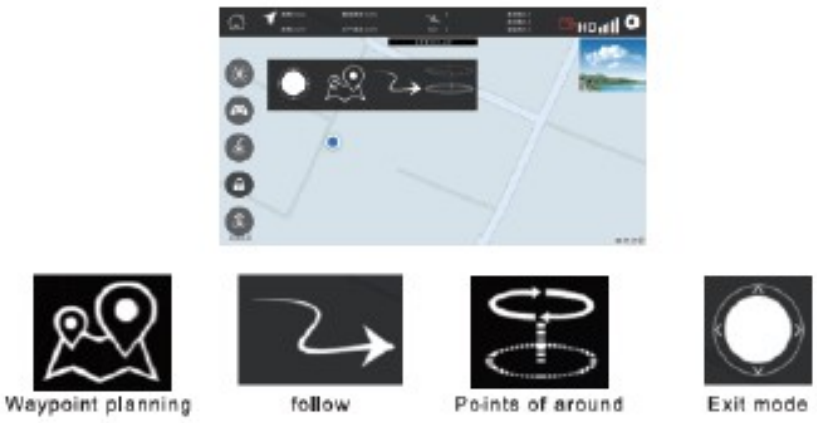
ios

Instructions: 360 ios

Open the mobile phone wifi to retrieve the wifi name at the beginning of "SIMREX- X11" and connect It. Then open the control software. At this time,
the mobile phone can be cl ipped on the mobile p hone bracket and used as a picture transmission, and you can also directly control the aircraft.



Before taking off, please understand the meaning of each button operation and check the aircraft battery voltage flight.
Cl ick thee unlock button, the button turns red, and the aircraft starts to idle.
Click again then it lock and slap moving. e After unlocking, press this button to take off, the aircraft automatically climbs to a height of about 1.5 meters and hover,
– The arrow points daon as the button of one key landing, and the aircraft automatically lands.
. Press this key to return to the- takeoff point
Cl ick. to enter the multi- function flight mode, you can choose llwaypoint planning, ll!follow,lllpoints of interest around , click
C]to exit the multi-function flight mode.
Waypoint planning mode: Cl ick. to enter the multi- function flight mode, click the■ to enter the waypoint planning, APP from the image transmission mode to the map mode, then havea waypoint setting
dialog box, the waypoint planning setting fence for the mobile phone coordinates 120 A radius of meters beyond the distance will limit access.
The blue point on the map Is the coordinate position of the controller and the red point is the coordinate position of the aircraft, and the scale of the map can be enlarged or reduced as needed.



Waypoint planning model

1. Pointing flight:

   Click the pointing flight icon D to enter the pointing flight.mode click on the current map to select the aircraft pointing arrival position, and click ■ to send the waypoint command, and the aircraft will immediately fly to the pointed waypoint and hover. Click the B button to delete the current waypoint.
2. Multi-task execution Click a to enter the multi-point flight mode, set multlple waypolnts on the APP interface, and click■ to send the waypoint command . The aircraft will be executed one by one in the order of the waypolnts. After the aircraft performs the last waypoint , it will return to the waypoint before planning. position. Press the Ill button to delete the current waypolnt.

follow me: Click. to enter the multi-function mode, select – to enter the fellow me mode, the head asrcraft face to operator (WIFI connected moblle phone), the arcrafl to moving follow operator. Click[]to exit the follow mode. Points of interest surround mode: Click 0 to enter the mulli-function flight mode, click. to enter the point of Interest around, the aircraft centered on the current position, automatically
moves a distance to the radius , aileron Joystick to choose left or right rotation, front and rear rocker control flight Radius, click[J to exit the point of interest surround mode.Aircraft Calibrated Accelerometer: Used to calibrate the installation error of the aircraft, which is helpful for flight stability. Please make sure the aircraft Is placed horizontally during calibration. Click[:] to
enter the aircraft settings and clic.- 14/iii-ii iMMM@di& to enter the calibration accelerometer. At th is time, the aircraft four-point indicator will flash fast. After the corner ligh ts flash, the APP interface exits the acceleration calibratlon and the calibration is completed. Keep the aircraft stationary during the calibration. Aircraft Calibration Geomagnetism: For the f irst Wght, It Is recommended to calibrate the geomagnetism, calibrate the geomagnetic energy to make the aircraft fly back more accu,ately, and calibrate the geomagnetic field to be conducted In an open space outdoors. Do not calibrate In an environment surrounded by indoor, high-voltage lines, Iron ore, and metal. Point [:]enters the aircraft setting, click to enter the calibration geomagnetism, APP prompts to calibrate the X axis, at this I ime, the red llght of the rear arm of the aircraft is long, the horizontal rotation of the aircraft waits for the green light of the rear arm light to enter the Y axis calibration, and the APP prompts to calibrate the Y axis. The head rotates vertically upwards until the rear arm light flashes normally. The APP exits the calibration inter face.

X-axis calibration, aircraft horizontal rotation

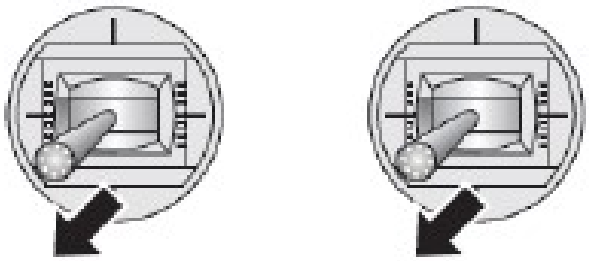
Y-axis calibration, aircraft vertical rotation

Low el ectricity return and electronic fence

» The aircraf t has an electronic fence. The maximum flying distance is 500 meters and the height is 200 meters before the battery is fully charged or has not entered the low-voltage protection.
» When the elncraftenters the first low-voltage.It will return to the distance within a radius of 50 meters, the height dropped to 20 meters, if the air craft does not exceed the the electronic fence, it will not enter the return flight.
» The aircraft can still operate autonomously In the electronlc fence, but It cannot enter the following flight modes such as following, headl ess, and return.
» When the aircraft enters the secondary low-voltage in the electronic fence and will land in pl ace. &Attention: The aircraft enters the low electric return flight, even In the electronic fence also must land as soon as possible. in order to avoid the battery the over-discharge phenomenon.

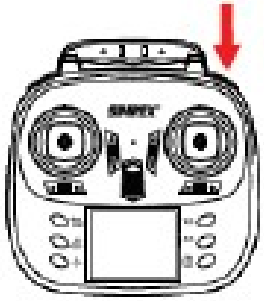
Gyroscope Cali bration

1. Protect frame, the flight attitude can be corrected by horizontal cal lbratlon,
2. As shown in the figure: Move the left and right joysticks to the lower left corner at the same t ime for 1-2 seconds. At this moment, the four-point Indicator of the aircraft flashes rapidly. The aircraft enters the horizontal calibration and waits until the four-point indicator of the aircraft lights up. The horizontal callbratlon Is successful,



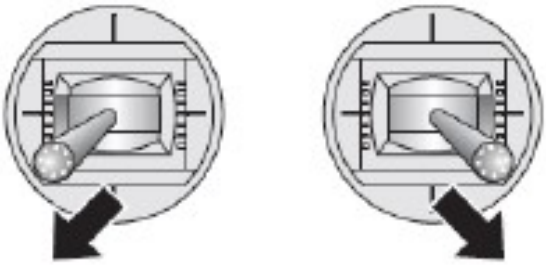
Turn off GPS manual control mode

> hen th• flight GPS or geomagnetism falls, the aircraft Is not artlflclally conlrol ed to yaw. and when the rotation occurs, the long•press mode switch button enters the manual control, the GPS Icon on the remote conlrol di splay goes out, and the aircraft tail-arm light lurns yellow when the aircraft enters. The fixed hei ght mode attempts to fly by manually control lng the safe landing of the aircraft, recalibrating the magnetic
compan, and if the fault persists, ple■ta eont1et the dealer for resolution.



Start your first flight

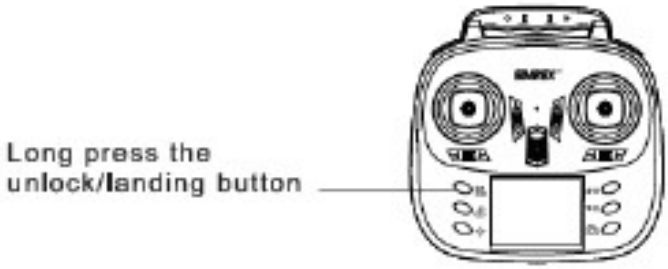
1. Place the connected alrcarft horlzontally on the ground ensure that the tall of the aircraft Is facing you and the head of aircraft Is at the front,
2. As shown in the figure, at the same time, move the joystick to the lower left corner and the lower right corner respectively, and the motor starts. A.gain, as shown In the figure, the rocker Is used to emergencyly close the motor



One button unlock/ One key landing

The remote control and the aircraft are successfully matched, and the search star Is completed, The aircraft is In the safe flight state of the GPS, Press and hold the unlock/landing button to hear the drop button. At this tlme, the aircraft is automatically unlocked and then the throttle can be pushed otf. Dur ing the fllght, l ong press the unlock/landing button, and when the button is released, the aircraft automatically enters the l anding. After !anding on the ground, the motor stops and locks. During the !anding, the throttle stick pushes up the aircraft to release a key drop.

One-key return



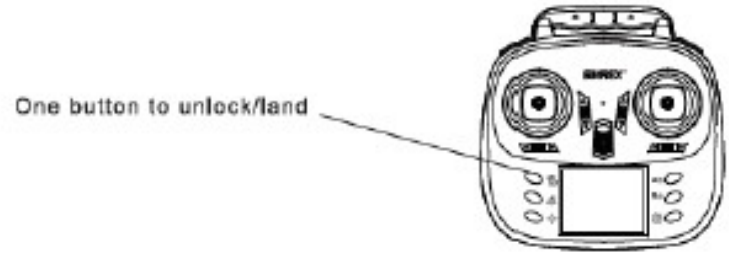
> The aircraft l eft the takeoff position 20 meters. Press the one~bu tton return button.
> The left and right arm lights at the rear of the ai rcraft are bright red, and the height of the aircraft is less than 20 meters. After cl imbing to 20 meters, the return flight begins. If the height is more than 20 meters, ii
will directly enter the return flight.
• The aircraft returns to the take-off position and begins to land after a sllght hover. The motor automalically shuts off after landing on the ground.

Headless mode

» Press the headless mode button to lock the aircraft in the takeoff direction.
» At this time, the aircraft is no longer in the direction of the head and the tail of the aircraft. Regardless of the angle of the aircraft at any angle, the direction of the nose Is taken forward when the aircraft takes off.
» Press again to exit headless mode.
Nole: Please do not enter headless mode in strong magnetic environment.

Remote control left and right hand conversion

Press and hold the remote control one-button unlock/landing button, thenturn on the remote control power switch to switch between left and right hands. The remote control display shows the left hand throttle of MOOE2 and the r ight hand throttle of MOOE1.



Read More About This Manual & Download PDF:

Documents / Resources

	SIMREX Z11-GPS Drone with Bubble Machine [pdf] Instruction Manual XIAOPAOYIXP1, 2A3RF-XIAOPAOYIXP1, 2A3RFXIAOPAOYIXP1, Z11-GPS Drone with Bubble Machine, Drone with Bubble Machine, Bubble Machine, Machine