Aircraft operation manual













Please keep this manual for future reference!

1.7 compass calibration

The compass calibration method is as follows:











1.8 UAV intelligent battery charging



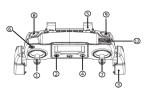


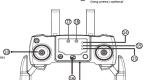
Tips and techniques for aerial photography

Install app and flight tutorial video

Know your remote control

The built-in two-way communication protocol of the remote controller can return various attitude data of the inratt in real time (flight attitude, flight distance, flight, speed, number of GPS satellite searches, flight mode, etc.), which can be displayed clearly on the mobile phone of the map transmission environment.









 Mobile pho
 Unlock key (5) antenna ® vid











rican hand Japanese hand switch (MOD

quick start guide







1.2 function introduction of obstacle avoidance component







Item list (accessories list)









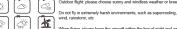




▲ be careful:

Please carefully count the accessories and quantity (such as the accessories list). If it is found that it is incomplete, please provide the purchase certificate and contact the sales merchant in time for replenishment and replacement.





2.0 Pre flight preparation

Please use your mobile device to scan QR code for download when installing app For scanning QR code and instructions, please refer to the detailed page of APP operation instruct





2.3 aircraft installation battery







▲ be careful:

To Connect USB changing cable to USB changer with 5V output (high power 5V 12A changer is recommended).

2) Insert the micro USB connector of the changing cable into the aircraft battery changing port.

3) When changing, the blue light so not rai long time. When the battery is full, the blue light goes out. After the long out the changing time is about 24 hours.

1.3 remote control charging













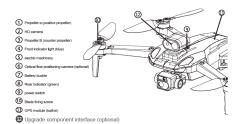




1.0 Product overview

- New modular design concept, easy to install, maintain, update and upgrade, etc.
 Equipped with 5g WFi digital image transmission system, it brings you different visual effects
 Buil in the latest generation of flight control system to growde stable and reliable flight performance.
 Buil in GFS positioning and navigation system makes flight more accurate and safer.
 Imbgraded espir, judgar installation, simple and convenient





Prepare the remote control

















3.0 Start first flight

3.1. Compass calibration

• When the user datus up for use for the first time, the compass needs to be calibrated. If there is no abnormally

• If there is a cortex or abnormal forwards in flight, please recalibrate the compass
• Pense calibrate the compass in addoctor deer in an analy away from electromagnetic field in Distuttance.

The compass calibration method is as follows







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Height difference from home point < 20m Rise first

3.2 description of flight mode status

ard and backward from the takeoff position to the arrow direction of the aircraft, and the

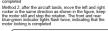
or flashes quickly, indicating that the aircraft has low power, and the operate

Mode status	Flight signal indicator (blue)	Flight status backlight (green)
Visual positioning mode	constant	Chang Liang
Outdoor GP mode (positioning)	Chang Liang	twinkle
Outdoor GPS mode (not located)	twinkle	twinkle
Headless mode	Flash 3 times	Flash 3 times
Automatic return mode	Chang Liang	twinkle
Primary low voltage	Slow flash	Slow flash
Secondary low voltage	flash	flash
Remote control not connected	fash	flash
Insufficient flight conditions	Alternating slow flash	Alternating slow flash

3.3 motor unlocking / locking Motor unlocking



Method 1: after the aircraft lands, pull the left rocker back to the lowest position as shown in the figure and keep it still until the motor stops rotating. The front and rear blue-green indicators flash twice, indicating that the motor locking is completed.







There is GPS positioning signal to
 When there is no GPS positioning

3.9 automatic return mode matters needing attention

1 issue at la Cype posterioris agints are received more than 5 automatic parts are received more than 5 automatic return mode, please confirm that the fight altable of the aircrit is higher than the obstacles on the return of 3.1 There are no pedestrians and sundries near the take-off point, and the aircraft will automatic return to the take-off point.



3.10 intelligent low voltage return A. When the attitude of the aircraft is higher than 20m the low-ordage return of the aircraft will maintain the crossing attitude, automatically return above the Hom. St. When the attitude of the aircraft six ower than 20m, the low-ordage return of the aircraft will climb to 20m high, automatically return to the lop of Hon point, and then laind.

1) Ensure that the GPS positioning signals in received more than a strainties of a statistical or a strainties of a statistical or an extraint or a strainties of a strainties

1) The flight distance and required reference are considered in real time to realize intelligent automatic return judgment when the aircraft power is love, or on to effectively required flight safety.

2) When the battlery voltage is lower than 7 (by t, the first and reservind cateful style) are the aircraft will fash at the same time, and the remote controller will send out a low voltage stating prompt.

3.11 fence mode

5.1.1 Enrice mode. When starting up, the fence function is enabled by default. Press and hold the key on the left side of the remote control for more than 2 seconds to turn off the fence function. Press and hold it again for 2 seconds to turn on the fence function. Press and hold it again for 2 seconds to turn on the fence function. Ferror function: the flight height is limited to 30 meters and the flight distance is limited to 200 meters.

matters needing attention
1) When novices practice flying, it is not recommended to cancel the fence function the fence function
2) Do not fly in the no fly area restricted by relevant laws and other regulations





Long press this key on the remote control, and the UAV will start headless indicator of the remote control, and the UAV will start A the same time, the headless indicator of the remote control is always or, Press and hold again to cancel the headless mode, and the headless indicator of the remote control use.

4.0 End flight

1) Manual landing, one button landing or automatic return mode landing to complete motor locking 2) press and hold the aircraft power switch for more than 2 seconds, and then turn off the power switch of the remote control after the indicator light goes out, that is, the power is turned off; 3) Remove the aircraft battery rom the aircraft.

3.4 basic flight steps

A basic (light steps)

1 Dace the arrant on atl and open ground with the user facing the tail.

2 Turn on the remote control and aircraft.

3 Turn on the remote control and aircraft.

3 The memote control and the aircraft and the aircraft is initialized.

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5 Mint the aircraft gyroscope is detected, unlock the aircraft set of second thy, and control the aircraft statude by their fight control.

5 Mint the aircraft gyroscope is detected, unlock the aircraft take of smoothty, and control the aircraft statude by their fight control.

7 Hid down the throtic lever to lover the aircraft.

6 Mint landing path the accelerates to the lovest glossion and hold it for more than 3 seconds until the motor stops.

3 Mint aircraft, num off the power supply of aircraft and remote controller in bird.

Tips and techniques for aerial photography

Perform pre flight inspection
Select an appropriate PTZ shooting angle.
Select an appropriate PTZ shooting angle.
Choose surny and windless weather for shooting. Route and viewfinder.
Test flight can be conducted before flight to help plan route and view.
Push the arcraft as small as possible during the flight to make the arcraft fly smoothly

3.5 one click unlocking (remote control operation)





In the outdoor GPS mode, please press (long press for 1 second) the "one key unlock" button. After the motor rotates at a low speed and gently pushes the left throttle, and the aircraft takes off slowly.

3.6 one touch landing (remote control operation)





Note: 1) ensure that the CPS positioning signal is received (the front blue indicator is always on).
 1) in the process of landing, you can control the operation before and after flight, left and right, and posh the furthet operator the bermarke this mode.
 1) The one louds landing function is only affective when the aircraft is operated within 10 meters from the taked position.

3.7 visual positioning mode (remote control operation)



be careful: Make sure the aircraft is level before takeoff, and the front and rear indicators of the aircraft are always on.

Visual positioning usage scene
The visual positioning function is applicable to the environment with an altitude of less than 10m, no GPS signal or poor GPS signal, especially for indoor flight.



The measurement accuracy of the vision system is easily affected by the illumination intensity and the surface texture of the object. In the case of vision failure, the visual positioning mode will automatically switch to the attitude mode. Therefore, the following scenarios should be used with caution.

which to the altitude mode. Therefore, the following scenarios should be used with caution
1. When flying all trea stitutes (below 0.5m), the visual system may not be able to locate.
2. Solid objor surface (such as pure black, pure while, pure red and pure green)
3. Solid objor surface or transparent object surface
4. Walner nurface or transparent object surface
5. The surface or transparent object surface
6. Scene with dastic and rapid changes in lighting
6. Scene with dastic and rapid changes in lighting
6. Scene with dastic and rapid changes in lighting
6. Stene surface or objects with this particularly start (altimination less than 10 uz) or particularly bright
6. Item (Illumination greater than 10000lbux)
8. Surfaces with particularly sparse testure
9. The surface of objects with high testure repeatability (such as small lattice bricks with the same color).
10. The speed of the aircraft should not be to fast. For example, the flight speed should not exceed
5m / s when it is 1m above the ground, and not exceed 14m / s when it is 2m above the ground

The second of the second of the vision system is clear and free of stains.

3) The use height of visual positioning function is within 10m.

3) Since he is used for second or the secon

3.8 outdoor GPS mode (remote control operation)







▲ be careful:

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1) Ensure that the GPS postioning agrait is reconvect (more man o samemes).

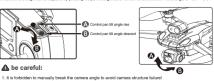
2) In the outdoor GPS mode, it has fixed point, fixed height and braking functions, and the flight speed is relatively stable

3) If there is no GPS positioning signal, switch to indoor fixed altitude flight mode

4) Do not fly in outdoor GPS mode near narrow lanes and fall buildings.

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Pan tilt camera



It is forbidden to manually break the camera angle to avoid camera structure failure!
 When installing the camera, pay attention that the play cable cannot be inserted reversely, other damage the internal components and cusse faults!
 3. Do not insert or pull out the SD card during aircraft shooting, otherwise the obtained data file may

Precautions for battery use

These are certain risks in using tithms which may cause heavy losses to people and property. Plasts use them with caulifor and bear all relevant responsibilities.

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The device consists of electronic components and batteries. For electronic and elecarry out special treatment according to local waste treatment requirements.

Common problems and Solutions

	Senal number	problem	resolvent
	1	After the aircraft is powered on, the indicator light flashes continuously and rapidly	The aircraft is in gyroscope detection state. Please put the aircraft on a stationary plane or on the ground
	2	After the aircraft takes off, it cannot hover and tilt to one side	Place the aircraft on a flat or level ground and recalibrate the gyroscope
Ī	3	The aircraft vibrated badly	The fan blade is deformed and needs to be replaced
	4	The aircraft cannot be unlocked, and the tail light flashes quickly	Aircraft battery voltage is too low, please fully charge the battery
			1

Product part name

Basic components

