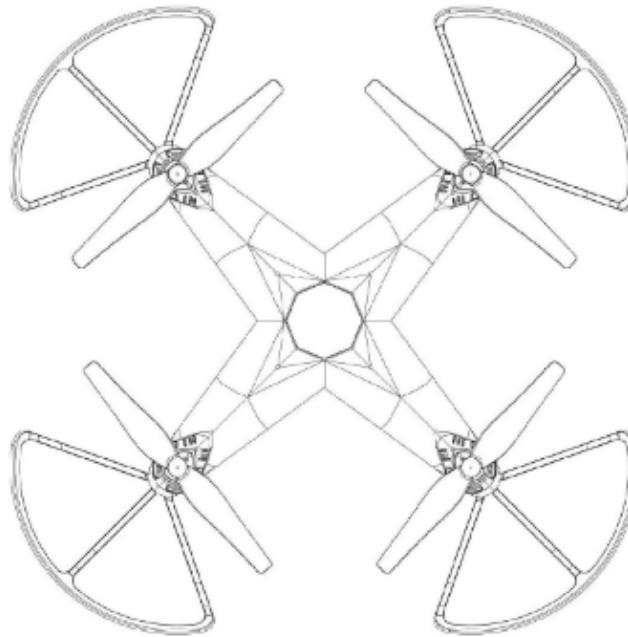


For age 14+

# **908A(SET-HIGH VERSION)**

## **4-AXIS DRONE MANUAL**

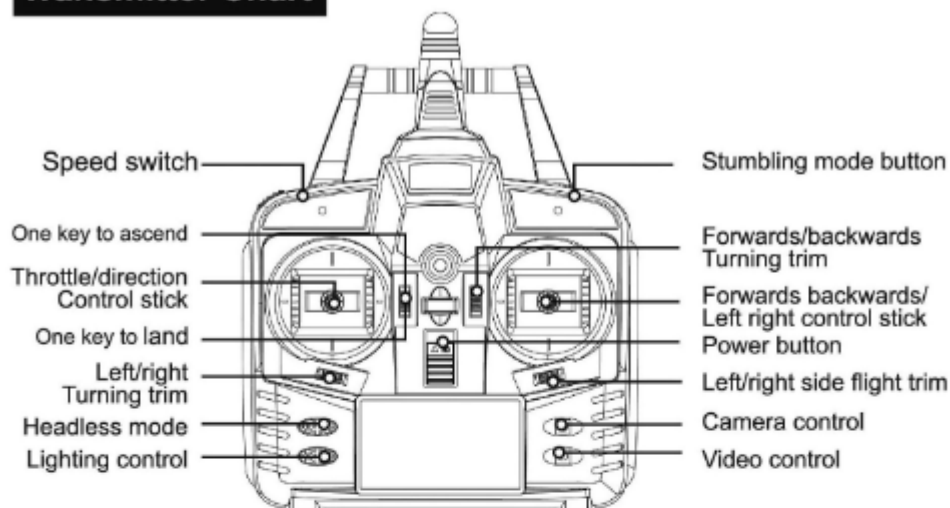
Many thanks for choosing heliway products  
Please read carefully before use!



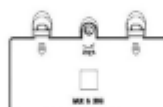
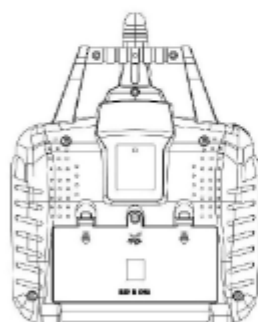
### **IMPORTANT NOTES:**

- 1.The aircraft with gyro offers you great flying experience indoors & outdoors under air force grade 4.
- 2.2.4 GHz technology offers long remote control distance and anti-interference against simultaneous play. Up/down/left/right/side flight and flip function are available.
- 3.Please read this manual carefully for your operation and keep it with the box which illustration offers important information.

## Transmitter Chart



## Transmitter battery installation



Open the battery case. Insert 6 AA batteries (excluded) properly according to the polar indicator. Close the cover.



AA alkaline batteries

**N** 1. Do not install use old and new  
**O** batteries together .  
**T** 2. Do not mix different type batteries.  
**E** 3. Do not mix different type batteries.

## Safety regulations:

1. Please keep small parts of aircraft away from children.
2. The aircraft have strong power, please turn the control stick slowly , speed too fast may get the aircraft damaged.
3. After the flight, you need to turn off the transmitter off and then turn off aircraft off.
4. Do not put the battery into high-temperature environment (like fire or electric apparatus)
5. Please keep 2-3m distance from crowds avoid the aircraft landing hurt people.
6. Accompanied children need adult to sure the aircraft in the safety range of user.
7. Do not reuse non-rechargeable battery, insert/ pluck batteries properly according to the polar indicator, do not install use old and new batteries together and mix different type batteries.
8. When you didn't use aircraft in a long time, please turn transmitter and aircraft off ,put out the batteries to avoid battery leakage .
9. Please take care the batteries to avoid it is short out.

### **Precautions for use of lithium battery:**

- There are certain risks to use lithium battery, which may give rise to personal injuries and property losses. Users shall undertake all corresponding responsibilities themselves. Manufacturer and dealer shall neither take control over usage of batteries (charging, discharging and storage), nor bear responsibilities concerned for any personal injuries and property losses caused thereby.
- In case of leakage of batteries, it is necessary to avoid liquid contacting skin and eyes. In case of contacting with skin, please wash it immediately with soap and clean water. In case of contacting with eyes, please wash eyes with large quantities of water and seek medical care immediately.
- In case of any suspicious odor, noise or fumes coming from chargers, please unplug it at once. Be sure to strictly observe the following requirements, otherwise, it may lead to fire disaster, electric shock or explosion.

### **Charger And Charging**

- Only charger recommended by OEM can be used for models. Model do not include charger. Therefore, it is necessary to disconnect the model with charger before cleaning.
- Do not charge and use expanded, leaked or damaged batteries.
- Do not overcharge the batteries. After batteries are fully charged, please unplug the charger. Upon completion of charging, do not recharge the batteries to prevent from overheating.
- Do not charge the batteries near inflammables or on the surface of inflammables (e.g. carpet, wooden floor and solid wood furniture) or conductive objects. Pay attention to the batteries during charging.
- Do not charge the batteries immediately when it is still hot after usage.
- The temperature of batteries shall be between 0℃ and 40℃.
- Do not unplug the charger when not charging.







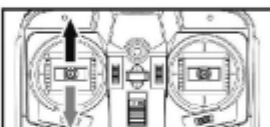
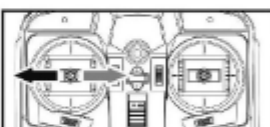

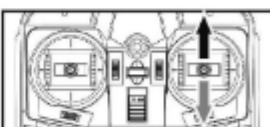


### **Use and storage**

- Do not use batteries with broken plastic packages.
- After starting up the product, do not put in or take out the batteries.
- Excessive physical impact shall be avoided.
- Do not use expanded, leaked, damaged or smelly batteries.
- Keep batteries away from children.
- Never dispose of batteries in a fire and do not expose batteries to liquid, rain or moisture.
- Do not put batteries in microwave oven or pressure tank.
- Do not disassemble, drill, deform or cut the batteries. Batteries or chargers are not allowed to bear heavy load. Do not impact batteries.
- Do not clean the charger with solvent, industrial alcohol or other flammable solvent.
- Avoid short circuit. Avoid direct contacting with battery electrolyte, because the electrolyte and electrolyzed vapor are harmful to human body.
- Keep the product at room temperature instead of extreme temperature. Avoid major changes to temperature at the location of storing the products.
- Do not place the product near heat source.
- Take out batteries when not using the product.

### **Recycling**

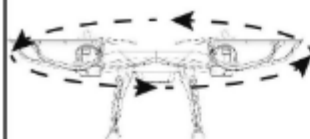
- Do not dispose the product as general waste. Damaged or unusable batteries shall be put into special containers for intended purposes.
- The product is composed of electronic element and batteries. For the waste electronic and electric equipment, it shall be disposed in accordance with special requirements.
- Please familiarize yourself with local waste centralized treatment methods.

## Operation method

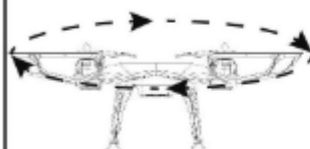
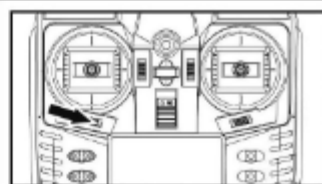
	<p>1. Turn the aircraft on, lay it on a platform or horizontal place. Turn on the transmitter, a beep sound indicates the connection has finished.</p>	
<p><b>①set-high barometer adjustment</b> After connection, wait until the light of the aircraft flashes, then turn both of the control sticks towards the center of the transmitter, keep this way for around 2 seconds, the aircraft keeps flashing.</p> <p><b>②Gyro calibration and motor unblocking:</b> Turn both of the control sticks outwards, keep it for around 2 seconds, the lights of the aircraft becomes constantly on, and the propellers spin, then push the throttle control stick or press the one-key-to-take-off button to take off.</p> <p><b>Notices:</b> If the aircraft starts automatically without control, it means the set-high barometer is not adjusted properly. Restart the aircraft with the one-key click, reboot the controller, repeat step 1&amp;2 again.</p>		 
 	<p>2. Push up the left control stick, the rotation speed of the main rotor is increasing and the aircraft ascends accordingly. Push down the left control stick, the rotation speed of the main rotor is decreasing and the aircraft descends accordingly.</p> <p>3. Push the left control stick leftwards, the aircraft turns left. Push the left control stick rightwards, the aircraft turns right.</p>	 
	<p>4. Push up the right control stick, the aircraft will fly forwards. Push down the right control stick, the aircraft will fly backwards.</p>	
	<p>5. Push the right control stick leftwards, the aircraft will make left side fly. Push the right control stick rightwards, the aircraft will make right side fly.</p>	

**Special Tips:** When the lights of the aircraft keeps flashing, it means it's going out of power, please fly it back to recharge.

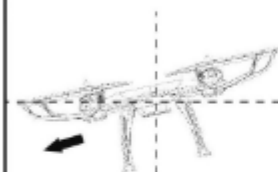
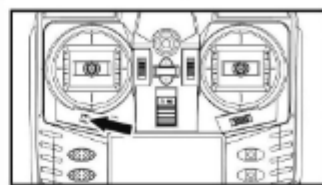
**NOTE** When the aircraft is flying within 30cm above ground, it may easily fly unstably. This is what we call ground effect. The lighter the aircraft weights, the more seriously ground effect goes.



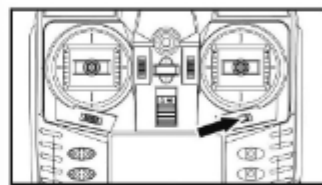
When the aircraft is rotating counter clockwise, press the right trimmer continuously until the aircraft gets balanced.



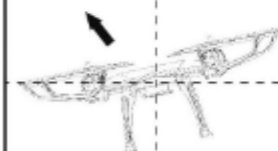
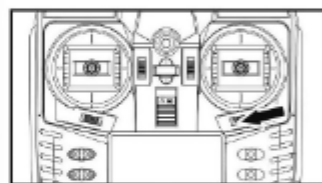
When the aircraft is rotating clockwise, press the left trimmer continuously until the aircraft gets balanced.



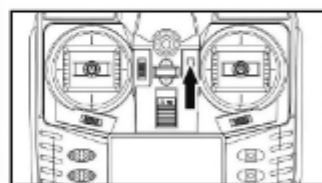
If the aircraft keeps drifting leftwards when hovering, press the right side-fly trimmer to adjust until it gets balanced.



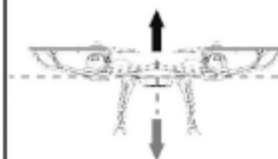
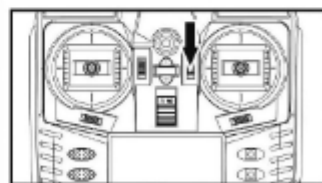
If the aircraft keeps drifting rightwards when hovering, press the left side-fly trimmer to adjust until it gets balanced.



If the aircraft keeps flying backwards when hovering, press the forward trimmer to adjust until it gets balanced.

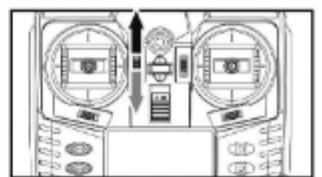


If the aircraft keeps flying forwards when hovering, press the backward trimmer to adjust until it gets balanced.



Press the one-key-to-take-off button, the aircraft will ascend to a fixed height.

Press the one-key-to-land-down button, the aircraft will descend until lands down on ground and the propellers stop spinning.



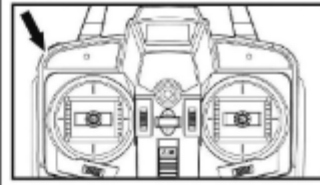
**The aircraft has 4 speed modes, when you turn the speed switch:**

One beep means low speed.

Two beeps mean middle speed.

Three beeps mean high speed.

Four beeps mean extremely high speed.



**Under tumbling mode, when you make the right control stick:**

push up-the aircraft flips forwards

push down-the aircraft flips backwards

push left-the aircraft flips leftwards

push right-the aircraft flips rightwards

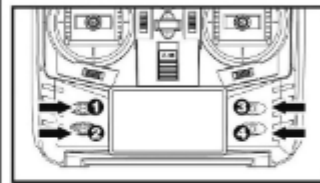


1.When you switch to headless mode, the constant-on lights of the aircraft will flash slowly, and the aircraft will fly according to the controller's direction no matter in which direction the aircraft fly towards at the moment. This mode enable the operator the get the aircraft return when it flies far beyond.

2.Press light control button to turn on/off the light of aircraft.

3.Press the camera button to take picture.

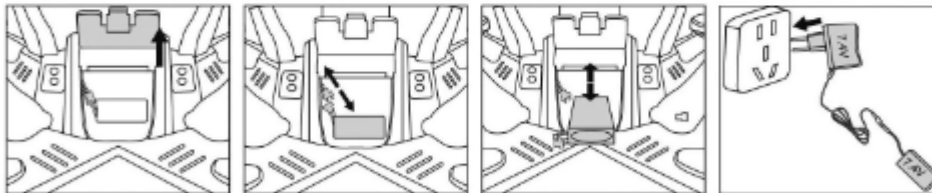
4.Press the video button to take video, press it again to finish recording.



## Charging batteries

Open the battery case according to the illustration picture, take out the power plug, insert the charger to the power plug, then insert the charger into Li-Po battery. The red light will be on while charging, and be off when charging is finished. Charging time is 150 minutes.

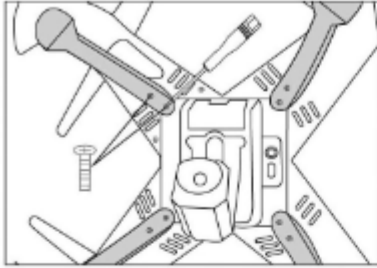
**Notices:** Charged with distribution of 908A special charger.



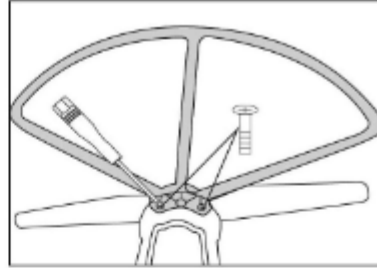
## Caution

- Keep a suitable distance from the aircraft for safety.
- Do not look straightly to the lights, as the lights may generate laser radiation.
- If the transmitter or aircraft is lack of power,the control distance and height of flying will be affected.
- If the aircraft is broken, please repair it in time. Fly it with damaged propellers may bring serious hurt.
- Please put out the batteries to avoid battery leakage when you didn't use it in a long time.
- Do not let the aircraft fall without control especially at a high altitude, because it may get the aircraft damaged and even shorter its service life.

## Parts installation

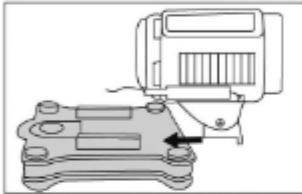


1. Tripod installation:  
Tighten The Screw As The Picture Show.



2. Propeller protector installation:  
Tighten the screw as the picture show.

## Camera installation(Camera configuration is optional)



For cameral module, install the anti-shaking frame first in steps as shown in figure above, then mount the cameral together with anti-shaking frame onto battery rack before connecting power wire of camera.

### Function overview of 30W camera

- 1.The module is in simplified version with optional MIC and remote shooting and video functions.
- 2.Photos are in JPEG format with resolution of 1280×960, while the video is in AVI format with resolution is 640×480 and frame rate of 60fps. Video data shall be saved in TF card with maximum memory of 32GB. When reading data, it is necessary to use card reader to read the TF card.
- 3.FPC welding type is adopted with imported chip of 30W pixels, minimum illuminance of 1Lux, imaging lens size of 8×8MM and visual angle of 70±5°.

### Function overview of 200W camera

- 1.Video resolution: 1280×720P/30FPS, video pixels: 1280×720, light-sensitive chip of camera: 1/4 INCH HD COLOR CMOS
- 2.Lens size: 4P visual angle of 68°, image zone: 3864UM×2184UM, working voltage of camera module: DC2.5-5V
- 3.Power consumption of camera module: 220MA±10% (3.7V), working temperature: -5℃-55℃ RH95%MAX
- 4.Storage temperature: -40℃-85℃ RH95%MAX

### Function overview of 500W camera

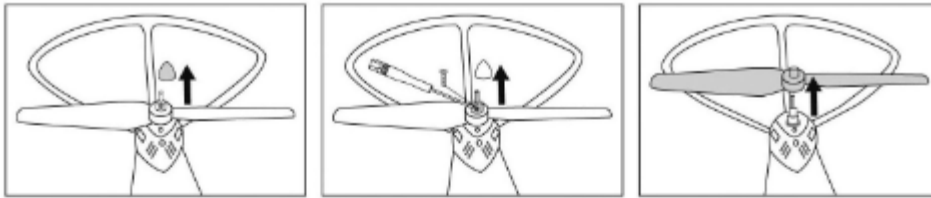
- 1.Video resolution: 1920×1080, video frame rate: 30 frame/s, photo resolution (optional): 2592×1944
- 2.Photo format: JPEG, video format: AVI
- 3.Working voltage: 3.7V-5.0V, withstanding voltage of triggering pin: 0V-3.3V
- 4.Low voltage standby current: 3.6V~180mA, low voltage working current: 3.6V~230mA
- 5.High voltage standby current: 5.0V~160mA, high voltage working current: 5.0V~190mA

### Power supply and remote signal input

The input and introduction of voltage, working current and remote signal of whole machine are as follows:

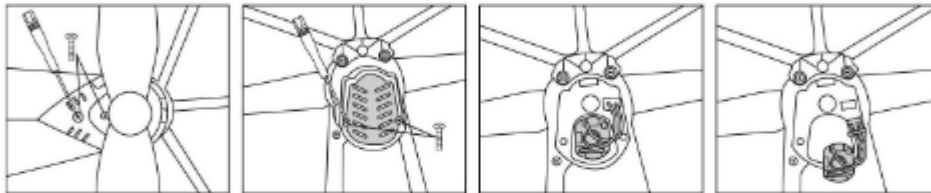
- 1.Starting up: the machine shall automatically start up after powering on. In case the red light is on first and then red & green lights blink for six times simultaneously, the machine shall shut down automatically, indicating that TF card is not detected or is full.
- 2.Standby: the green light is on continuously.
- 3.Video recording: after low level of VIDEO control wire triggers and starts up the video function, the red light shall flash; then low level shall trigger and exit VIDEO function while saving files and getting back to standby state, when the green light shall be on continuously.
- 4.Photographing: after the low level of PHOTO control wire triggers photographing function, the green light shall be off with red light flashing once, indicating that three photos shall be taken and saved before getting back to standby state, when the green light shall be on.
- 5.Input voltage: 3.7V-5.0V, standby current: ≈200-250mA

## Propeller Installation



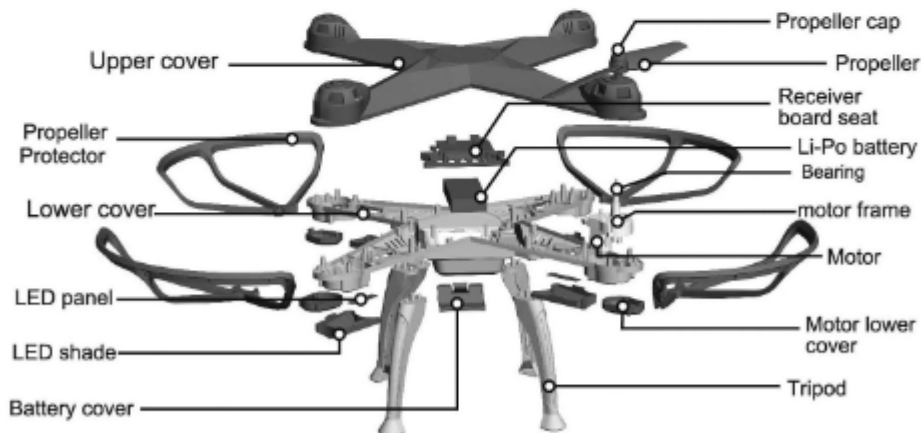
Propeller had marks A or B ,please corresponding the same marks,as show as picture.

## Motor Change



Loosen the screw on the upper cover ,then loosen the scerw on the lower cover,open the lid to change the motor.

## Description of product parts



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.