

Ages:14+



**HELIWAY SET**

## **905/905A Instruction Manual**

### **4-AXIS AEROCRAFT INSTRUCTION MANUAL**

Please read the Instruction Manual carefully before using this product.



### **Notice:**

- 1.The 4-axis Drone is with gyroscope technology and can fly in small room and the outdoor, which can satisfy you with flying as long as the wind is not stronger than 4 degrade.
- 2.The Drone can remote control at a long distance with 2.4GHz and can work without any interrupt while many persons play at the same time. The Drone can fly forward, backward, left/right and right/left side move, as well as eversion function.
- 3.Please read this manual carefully to play the Drone easily and safely. Keep the manual for future reference.

# Specification and Technology Parameter

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Body Length: 33.5CM

Radius of remote control: 150 meters

Body Width: 33.5CM

Crusing Time: 8-10 minutes

Body Height: 8CM

Charging Period: 60-80 minutes

Body Weight: 106 grams

Launch Mode: 2.4G

Function: Forward/Backward, Up/Down, Turn Left/ Right, left/right side move, Hover, Photo /Video, 360°eversion, High/Low speed Switch, Light Control

## Transmitter

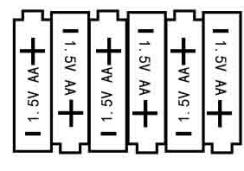


## Battery Installation of Transmitter



Battery Cover

Assembly of the battery: open the cover at the back of transmitter and insert the 6 AA batteries(not included.)



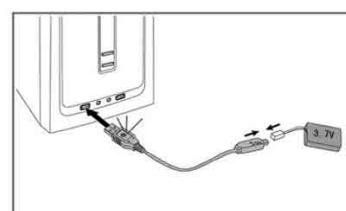
1.5v Alkaline Battery

Notice:

1. Please be sure to insert the batteries into battery box according to the correct polarity
2. do not mixuse the new and old batteries
3. do not mixuse different types of batteries.

## Battery Recharge of the Drone

Pull the Li battery out of the Drone and pull the plug, plug the charger into power, link the charging plug to Li battery plug. While charging, the indicator light is red. After finished, the light turns off. The charging period is about 60 to 80 minutes.



## **Notice on Using Li battery:**

- Using Li battery may cause any danger. It might cause damages to persons and properties, the users should bear the related responsibility. The maker and franchise wouldn't be responsible for the damages as without any control of using the battery.
- Please avoid liquid touching with skin and eyes once the battery leaking. Once the liquid touching your skin, please clean with soap and water at once. If your eyes touched the liquid, please clean with water at once then go to a doctor immediately.
- If the charger has smell, noise or smoke, please pull out the plug immediately.
- Please observe the following requirements, otherwise it may cause fire, shock or explosion.

### **Charge**

- The battery must be charged with the attaching charger. Don't use the broken or other chargers.
- Don't use the swelled, leaked or broken battery.
- Please don't overcharge the battery. After the battery is full charged, please pull out the charger. After finished charging, don't recharge the battery to avoid overheating.
- Don't charge near the tinder (such as carpet, wooden floor or wooden furniture) or conductive objects, and observe the battery while charging.
- Don't charge the battery when it is still heated after the product is used.
- Keep the temperature between 0° and 40°.

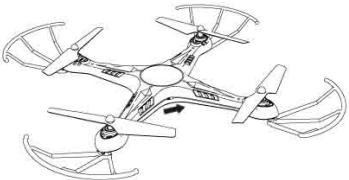
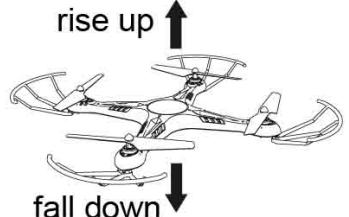
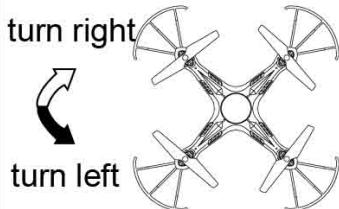
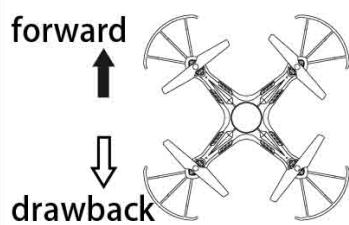
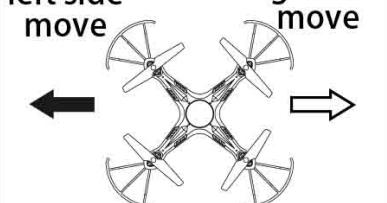
### **Usage and Storage**

- Don't use the battery which the plastic package has been damaged.
- After you start the product, please don't insert or pull out the batteries.
- Don't make the battery suffer the excessive physical impact.
- Don't use the swelled, leaked or broken battery.
- Keep the children away from the battery.
- Don't throw the battery in the fire. Keep the battery away from liquid. Please don't keep the product in the rain or wet places.
- Don't put the battery in the microwave oven or overhead tank.
- Don't dismantle, drill, distort or slice the battery. Don't carry the weight on the battery or charger. Don't hit the battery.
- Don't clean the charger with dissolvent, industrial alcohol and other flammable solvent.
- Prevent short circuit. Avoid touching the electrolyte which may cause any injury.
- Keep the product in storage under the room temperature. Don't keep the product under the extreme temperature. Prevent the temperature of the storage place from varying a lot.
- Don't put the product near the heat source.
- Pull out the batteries without using.
- Don't plug the charger while charging.

### **Recycle**

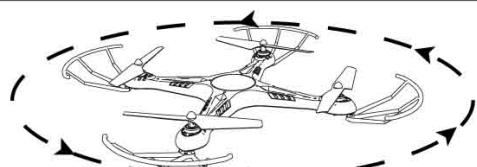
- Don't process the product as waste. The broken and out of use battery should be put in designated container.
- The product consists of electric cell and battery. The electronic waste should be processed in special requirement.
- Please acquaint with the local regulation on processing the waste.

# Operation Method

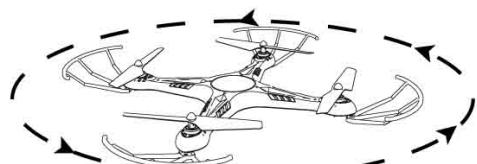
	<p>Open the Drone then turn the throttle control stick to the bottom. Turn the power switch to “ON”, the indicator light of Drone will be on. Only the transmitter and the Drone finished adjusting the frequency, you can operate the Drone.</p>	
  	<p>When push the left throttle stick to upwards, the main blade will speed up rotating and the Drone will rise up.</p> <p>When push the left throttle stick to downwards, the main blade will slow down and the Drone will fall down.</p> <p>When push the left Direction Control Stick to left, the head of Drone will turn left.</p> <p>When push the left Direction Control Stick to right, the head of Drone will turn right.</p>	  
	<p>When push the right Direction Control Stick to upwards, the Drone will keep forward, while push it to downwards, the Drone will drawback.</p>	
	<p>When push the right Direction Control Stick to right, the Drone body will side fly to the right , while push it to left, the Drone body will side fly to the left.</p>	

**Tips:** Push the throttle control stick slowly, while the Drone flying, hovering in the air or sloping in different directions, you can use the trimmer.

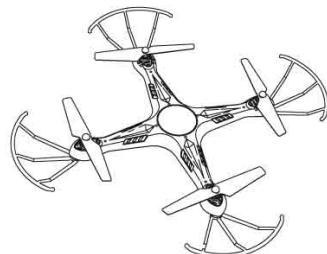
**Notice:** While the Drone flying to the position within 30cm above the ground, the Drone will become unstable as influenced of the self blade, it is the Ground Reaction. While the Drone flying lower, the ground reaction is bigger.



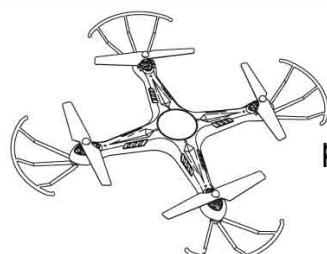
When the Drone hovering to left, please press the right trimmer continuously till it stops hovering.



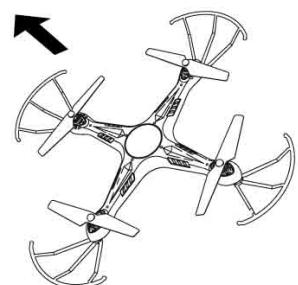
When the Drone hovering to right, please press the left trimmer continuously till it stops hovering.



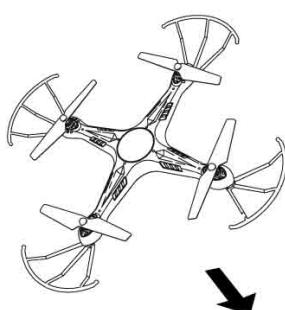
While the body of Drone sloping to the left, please press the right crabbing trimmer continuously till the Drone wouldn't move to the left.



While the body of Drone sloping to the right, please press the left crabbing trimmer continuously till the Drone wouldn't move to the right.



While the body of Drone hovering to backward, please press the forwards trimmer continuously till the Drone wouldn't move backwards.



While the body of Drone hovering to forward, please press the backwards trimmer continuously till the Drone wouldn't move forwards.



The default operation setting of the transmitter is left hand mode. If you want to switch into right hand mode, please push up the switch button, then the transmitter operation function part 1 and part 2 will swap. If you need set back the default function, please push up again.



- ① Press the reset button for three seconds, the transmter will recover to the default setting.
- ② Press the light control button, you can adjust the light on the Drone and choose the corresponding light mode according to your operation.
- ③ Press the photo button, then you can remote control the camera.
- ④ Press the video button, then it starts recording, if press again, it stop recording.



## Surroundings before flight

1. Indoor Flight: please play it in spacious room without any obstacle, animal or human.
2. Outside Flight: please play it in the warm, sunny and windless weather.

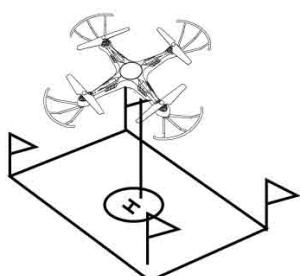
### Notice:

- ① Don't play at the extreme temperature. The weather is too hot or too cold that may affect the flight effect or damage the product.
- ② Don't play in the strong wind. The strong wind may hinder the flight control. Under the situation, the Drone may disappear or be damaged.

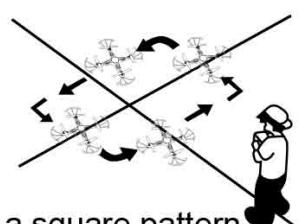
## Fly Practice

Only enough practice you can try the following flight.

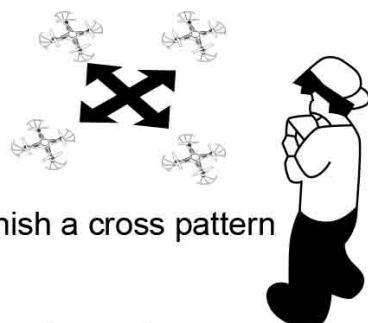
### Hover(Direction rotation)



Land on the fixed place.



Fly in a square pattern

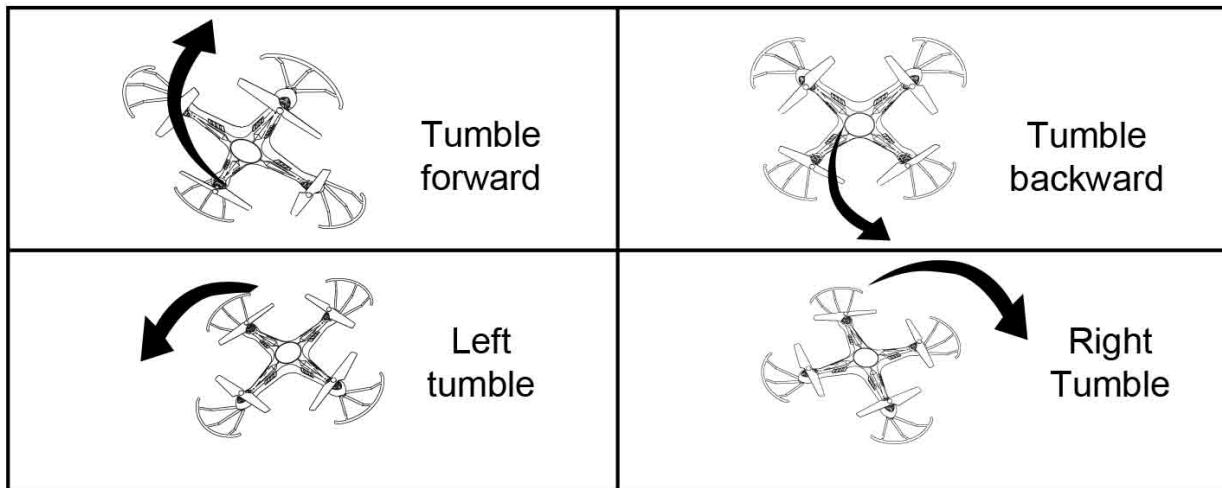


Finish a cross pattern

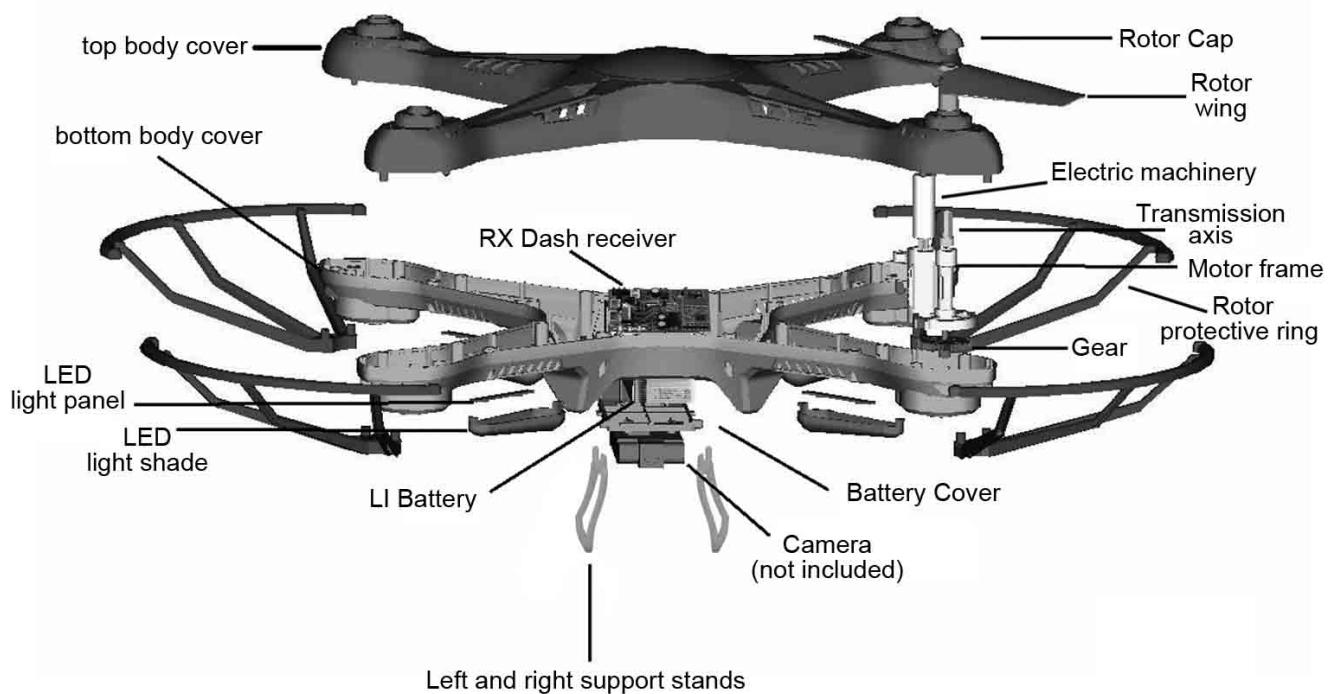
You can practice the basic motions then try the pattern flight.

## 3D Turn over flight

After mastered the basic motions, you can play some funny actions. When the Drone flies above 3 meters, press the eversion button and push the right direction control stick, then the Drone can turn over.



## Spare Parts

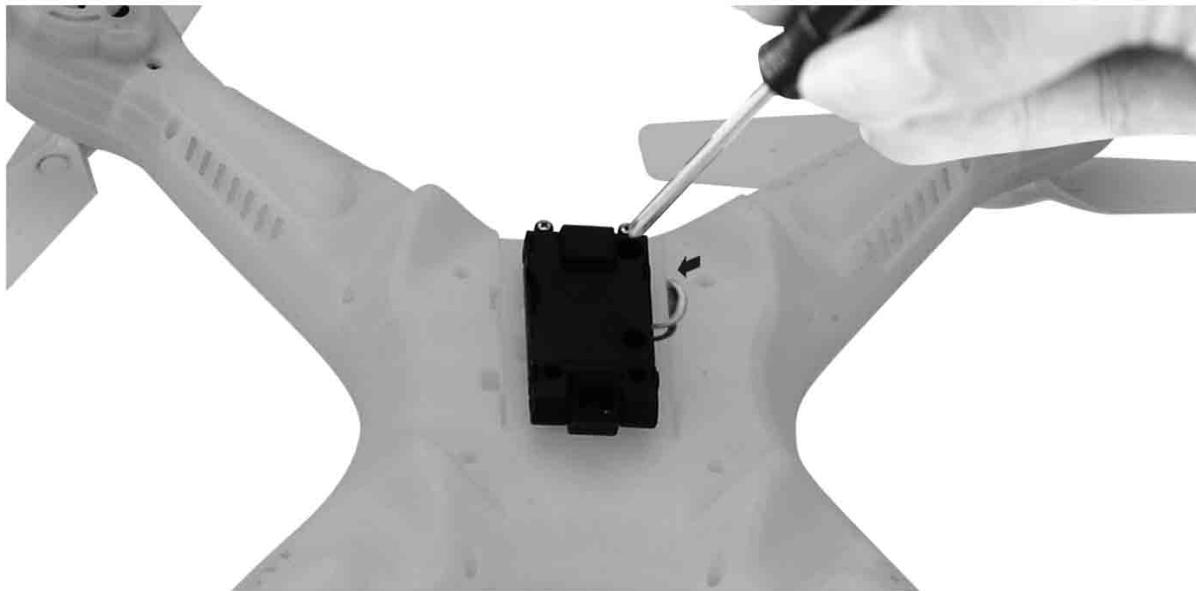


Remarks: The 905A standard spec includes the camera, memory card and card reader, 905 not including.

## Notice:

- 1.The remote distance may be influenced when the transmitter or Drone has not enough power.
- 2.When the Drone has not enough power, it may be different to fly high.
- 3.In the case of damage or deformation, please fix the Drone in time. If the motor wind is broken, please don't play it.
- 4.Please take the battery out of the transmitter while not using in a long term.
- 5.Please avoid the Drone high crashing or serious colliding, otherwise it may be broken.

## Camera Installation and Use Instruction



Connect the camera cable, fix the camera modular to the screw situation of battery stand and screw up.

## Camera Function

- a.The modular is simple, and you can choose MIC to have photo and video function.
- b.The format of photo image is 1280\*960, JPG.

Video resolution is 640\*480, the frame rate is 60fps, AVI.

The video data will be stored in the TF card(SD card). The card maximum 32GB.

Please read the data with the card reader.

- C. The camera is with FPC soft welding, 30W pixel chip and minimal illumination. 1 Lux size is 8\*8MM, the visual sight is  $70^\circ \pm 5^\circ$ .

## The power supply and the input of transmitter signal

- a.Power on: turn on the power supply, the red light is on. When the red and green lights flash at 6 times, it will turn off, which means that it can't found the TF card(SD card) or the card is full.
- b.Standby: the green light is on.
- c.Video: the control line of Video in low-level can start video function and the red light will flash, while it is in low-level again, it will close the video function and store the data, then come back to stand by. The green light is on.
- d.Photo: the control line of photo in low-level can start photo function. If the green light off and the red light flash, it takes three photos and in storage, then back to stand by. The green light is on.
- e.Input voltage: 3.7V~5.0V Standby mA:  $\approx 130$ mA Working mA:  $\approx 200 \sim 250$ mA

# **Warning:**

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.

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.