



ITEM NO. X901

14+

**2.4G • SPEED TOGGLE 3D ROLL**  
**X-SERIES**  
R/C Hexacopter With 6-Axis Gyro



# INSTRUCTION MANUAL

Thank you for purchasing this product. Please read this manual carefully before use and retain it for future reference.

## Technical parameter of the hexacopter

|                           |                                 |
|---------------------------|---------------------------------|
| Fuselage Length: 86mm     | Gross Weight: about 22g         |
| Overall height: 20mm      | Battery: Li-polymer 3.7V 180mAh |
| Main Rotor Diameter: 30mm | Charging Time: about 30 minutes |
| Motor: Coreless motor     |                                 |

## Introduction

- Multi-rotor design insures more stable and powerful performance and make all kinds of 3D action more easier.
- New designed structure makes assembly and maintenance easier.
- Adopting 2.4G auto connection technology, scores of hexacopters can be played at the same time.
- Equipped with the newest 6-Axis Gyro control system, this hexacopter has the characteristics of stable flight and easy operation.
- Full charged battery can support 5 minutes steady flight.

## Product/spare parts included in this package

| Description        | QTY (pc) | Description   | QTY (pc) |
|--------------------|----------|---------------|----------|
| Hexacopter         | 1        | Propeller A/B | 6        |
| Remote Controller  | 1        | Manual        | 1        |
| USB charging cable | 1        |               |          |

## Safety guidelines

- This product is not a toy. It is not applicable for children who are under 14 years old.
- Please read this instruction manual carefully before playing and operate the product according to the manual.
- The users are in full charge of proper operating the hexacopter. The manufacturer and dealers disclaim all responsibility for the damage caused by misuse.
- Keep the small accessories away from the kids to avoid accident.
- Keep batteries away from fire or high temperature environment.
- When flying the hexacopter, keep it 1-2 meters away from user or others to avoid injury due to collision.
- Not to decompose or modify the product which may cause malfunction or accident.
- Fly the hexacopter within your eye vision for easy and safety control.
- Fly the hexacopter within your eye vision for easy and safety control.
- Need adult supervision when this hexacopter is being played by children.

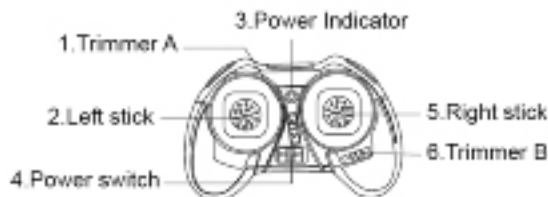
- Only batteries of the same or equivalent type as recommended are to be used.
- Insert batteries with correct polarity.
- Non rechargeable batteries are not to be charged; the transmitter need 2XAAA batteries for work.
- Do not mix old and new batteries.
- Do not mix alkaline, standard(carbon-zinc), or rechargeable(nickel-cadmium) batteries.
- Rechargeable batteries are to be removed from the toy before being charged.
- Rechargeable batteries are only to be charged under adult supervision.
- Exhausted batteries are to be removed from the toy.
- The supply terminals are not to be short-circuited.
- The USB charging line to be used with the product should be regularly examined for potential hazard, such as damage to the cable or cord, plug, enclosure of other parts and that in the event of such damage, the product must not be used until that damage had been properly removed.

## The remote controller

### Main features of the remote controller

- Adopt microcomputer control remote controller system and 2.4G auto connection technology, scores of copters can be played at the same time without any interference.
- Control the functions of upward, downward, forward, backward, leftward, rightward, turn left, turn right and 3D flips & roll of the copter.

### Sketch and function switches of the remote controller



| No | Function switch | Function description                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1  | Trimmer A       | It helps to tune the hexacopter's forward and backward flight.                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 2  | Left stick      | Upward/downward(turn left/turn right & high & low speed mode switch) control stick.                                                                                                                                                                                                                                                                                                                                                                                                   |
| 3  | Power Indicator | Indicator light is keeping flashing interruptedly: the remote control is still not activated. Please push up the left control stick to the top, then, push it down to the bottom to activate the remote control.<br>Indicator light is keeping flashing quickly: the remote control is under signal connecting state, which means that it is ready for receiving signal from the receiver.<br>Indicator light is constant "on": the remote control is standby for flight controlling. |
| 4  | Power switch    | It controls the power source of the transmitter.Slide the power switch to the "ON" position, the transmitter is powered on; slide the power switch to the "OFF" position, the transmitter is powered off.                                                                                                                                                                                                                                                                             |
| 5  | Right stick     | Forward/backward( leftward/rightward flight and 3D trick flying) control stick.                                                                                                                                                                                                                                                                                                                                                                                                       |
| 6  | Trimmer B       | It helps to tune the hexacopter's sideward flight.                                                                                                                                                                                                                                                                                                                                                                                                                                    |

### Battery installation of the remote control



Pic.1

1.Open the battery door of the remote control by screwing counter-clockwise.



Pic.2

2.Install 2xAAA size battery into the battery compartment as per the given polarity.

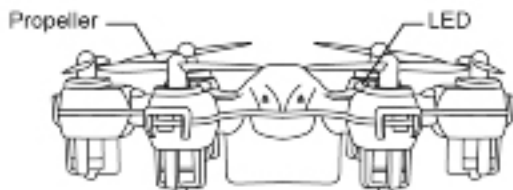


Pic.3

3.Close the battery door and lock the door by screwing clockwise.

## The hexacopter

### Major parts of the hexacopter



### How to charge the hexacopter

Insert the USB charger into the USB interface of the computer; connect the battery cable with the USB wire plug. The indicator light of the USB will be off when charging is proceeding; once the battery is full charged, the indicator light turns red. Full charging takes about 30 minutes.



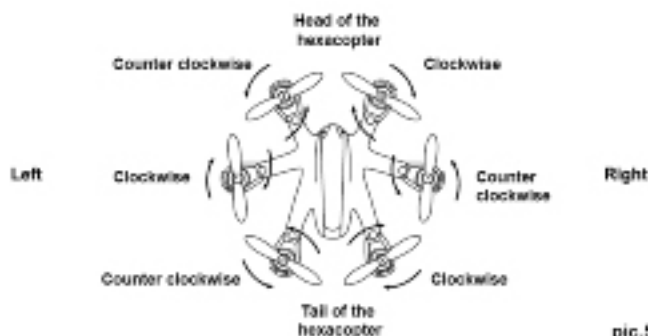
Pic.4

**NOTE:** Battery should be full charged before storing.

## Preparation for flight

- Connect the battery wire plug to the power wire plug, then, the hexacopter is on; the flash light will keep flashing quickly, the gyro of hexacopter will be in signal detecting condition. Set the hexacopter to flat surface, about 3 seconds later, the flash light will keep constant "ON". It means that signal connection is finished and the hexacopter is ready for flight.

- To ensure steady flight, please set the value of the Trimmer to the midpoint.
- Push up the throttle stick slowly and the hexacopter takes off.
- To avoid any misunderstanding, we have defined the orientation of the hexacopter as follows: The hexacopter is set to be copter nose right ahead and tail facing the player. The copter nose direction is named as "forward", the tail direction is named as "backward". The copter flies up to the sky is named as "upward"; the copter flies down to the ground is named as "downward". Player's left side is named as "left", player's right side is named as "right". All the directions we are talking about in this manual are subject to the definition above.
- The orange lights are at the front of the hexacopter; the blue lights are at the back of the hexacopter.
- Check the rotation direction of the rotor blades which is shown as Pic.5.
- If the hexacopter keeps flying to one side, it can be corrected by adjusting the trimmer on the remote control.



pic.5

#### Remarks:

- Signal connection between the hexacopter and the remote control is required for the first use.
- Set the connection one by one to avoid signal connection error.

## Trimmer functions

1. If the hexacopter keeps moving forward/backward even there is no control signal given, users may adjust the elevator trim to keep the hexacopter balanced.

|                                                                                   |                                                                                     |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  | If the hexacopter keeps moving forward, push down Trimmer A until it gains balance. |
|  | If the hexacopter keeps moving backward, push up Trimmer A until it gains balance.  |

2. If the hexacopter keeps moving leftward/rightward even there is no control signal given, users may adjust the aileron trim to keep the hexacopter balanced.

|                                                                                     |                                                                                          |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
|   | If the hexacopter keeps moving leftward, turn right of Trimmer B until it gains balance. |
|  | If the hexacopter keeps moving rightward, turn left of Trimmer B until it gains balance. |

## Operating

|                  |                                                                                     |                                                                                                                                       |
|------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Upward           |    | Push up the throttle control stick, the rotation speeds of the mains rotors are increasing and the hexacopter ascends accordingly.    |
| Downward         |    | Push down the throttle control stick, the rotation speeds of the mains rotors are decreasing and the hexacopter descends accordingly. |
| Turn left        |    | Turn the left/right turning control stick to the left, the hexacopter will turn left.                                                 |
| Turn right       |    | Turn the left/right turning control stick to the right, the hexacopter will turn right.                                               |
| Forward          |    | When the hexacopter is flying, push up the forward/backward control stick, the hexacopter will move forward.                          |
| Backward         |   | When the hexacopter is flying, push down the forward/backward control stick, the hexacopter will move backward.                       |
| Leftward flight  |  | Turn the sideward flight control stick to the left side, the hexacopter will fly leftward.                                            |
| Rightward flight |  | Turn the sideward flight control stick to the right side, the hexacopter will fly rightward.                                          |

### 3-speed toggle switch

There are 3 speed modes of the remote control: low speed, medium speed and high speed. Low speed mode is the default mode. When the remote control is powered on and signal connection with the model is finished, the remote control is in low speed mode; press down the left control stick, the remote control will send out 2 "beep" sounds, then, the speed mode is changed to medium mode; Press down the left control again, the remote control will send out 3 "beep" sounds, then, the speed mode is changed to high speed mode. High speed mode is also called "Roll Mode".



### Manual roll

When the remote control is at high speed mode, and the right control stick travels are more than 95%, roll action will be performed once; when the right control stick travels are less than 95%, the hexacopter will perform the flight according to the given control signal.



### Accessories (Optional)



901001

Upper/ Lower Cover  
(White)



901002

Upper/ Lower Cover  
(Black)



901003

Propeller A/B  
(White)



901004  
Propeller A/B  
(Black)



901005  
Clockwise Motor



901006  
Counter Clockwise  
Motor



901007  
Receiver PCB



901008  
Battery



901009  
USB charging cable



901010



901050  
Manual



901051  
Gift Box



901052  
Inner Blister Package



GR140  
Remote Controller

## Trouble shooting

|   | PHENOMENON                                              | REASON                                                                                                 | SOLUTION                                                                                                                                                 |
|---|---------------------------------------------------------|--------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | The lights are flashing quickly.                        | Gyro of the hexacopter is under signal detecting condition.                                            | Set the hexacopter to any flat surface.                                                                                                                  |
| 2 | The lights are flashing on twice and flashing off once. | The hexacopter is not received the signal from the remote control or signal connection is interrupted. | For absence of signal, activate the remote control for the signal connection. For signal interruption, turn off the remote control and turn it on again. |
| 3 | The lights are flashing on and off.                     | The hexacopter is underpowered.                                                                        | Charge the battery or change another full charged battery.                                                                                               |
| 4 | The hexacopter is shaking fiercely.                     | The rotor blade is out of shape.                                                                       | Change the rotor blades.                                                                                                                                 |

Note: a) Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

b) 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.

