

**Ages 14 and up**

# **Tarantula X6**

**2.4 GHz R/C SERIES 4 CHANNEL  
6-AXIS GYRO**



**Yi ZHAN<sup>®</sup>**




**Instruction Manual**

## 1. INTRODUCTION

Thanks for using YI ZHAN products. Helicopter is the first helicopter which can fly outdoor in a wild weather. In order to play Helicopter more convenient and easy, please read it carefully before playing the helicopter. Meanwhile, please keep it well, and take it for reference when adjustment and maintenance.

Flight vehicle can satisfy you whatever rainy or sunny, even when outdoor wild grade 3-4, it will keep moving.

### WARNING LABEL LEGEND

	Mishandling due to failure to follow these instructions may result in damage or injury.
	Mishandling due to failure to follow these instructions may result in damage.
	Do not attempt under any circumstances.

### IMPORTANT NOTES

Helicopter is not a toy, miniature remote control four-axis aircraft, but there is still some risk of the matter with instructions to correctly use the model in accordance with the Security, the dismantling of any modification or improper use of the product are not familiar with may be dangerous to the risk of unexpected or accidental, please do not overlook.

Manufacturer and dealer assume no liability for accidental damages by abnormal wear of parts, improper assembly, or operation in unsafe manners. This product is intended for use by age 14 years or older. Please ensure the product is operated under safe environment.

We recommend that you seek the assistance of an experienced pilot before attempting to fly our products for the first time. A local expert is the best way to properly assemble, setup, and fly your model for the first time. The requires a certain degree of skill to operate, and is an item subject to normal wear and tear. Any damage or dissatisfaction as a result of accidents or modifications are not covered by any warranty and cannot be returned for repair or replacement. Please contact our distributors are not covered by any warranty and cannot be discounted rates when you experience problems during operation or maintenance.

## 2. SAFETY NOTES

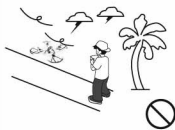














Fly only in safe areas away from other people. Do not operate R/C aircraft within the vicinity of crowds or people. R/C aircraft are prone to accidents, failures, and responsible for their actions and damage or injury occurred during pilot error, and radio interference. Pilots are responsible for their actions and damage or injury occurred during the operation or as a result of R/C aircraft models.



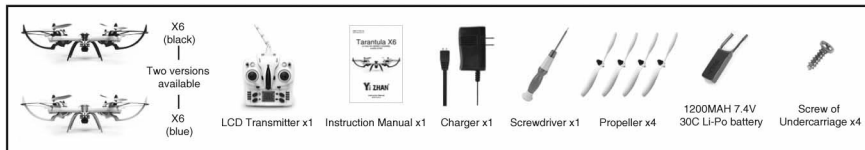
Special design for indoor & outdoor, please keep it away from obstacles

This product is suitable for indoor and outdoor (the wind grade should be no more than 4), please choose a place without obstacles, and keep distance from crowd and pets, don't play it under unsafe, for instance, heat source, wire or electronic power source, in order not to be damaged by collision landing, entanglement and lead to a fire, electric shock and cause losses of lives and property

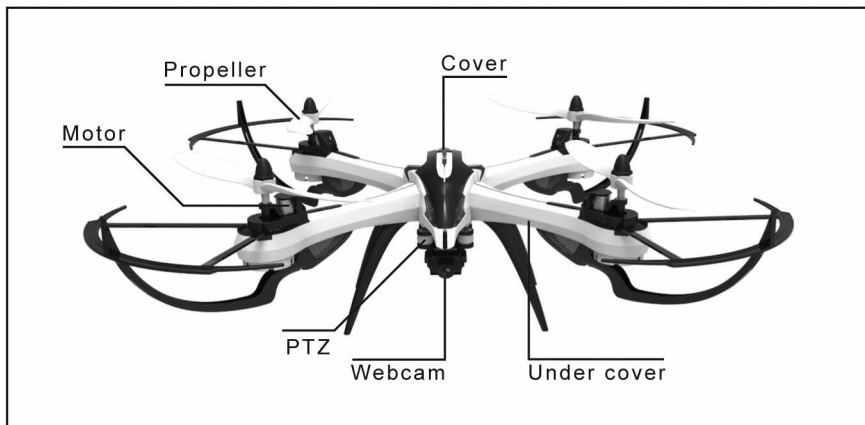


	<b>PREVENT MOISTURE</b>	
	<b>PROPER OPERATION</b>	
	<b>SAFETY NOTE FOR NI-MH BATTERIES</b>	
	<b>SAFETY NOTE ON LI-POLYMER BATTERIES</b>	
	<b>KEEP AWAY FROM HEAT</b>	
	<b>OBTAIN THE ASSISTANCE OF AN EXPERIENCED PILOT</b>	

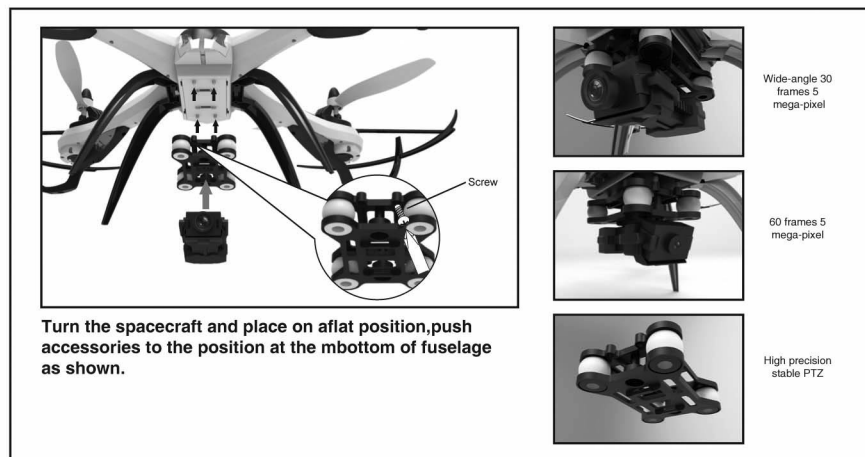
### 3. STANDARD EQUIPMENT



### 4. NOMENCLATURE



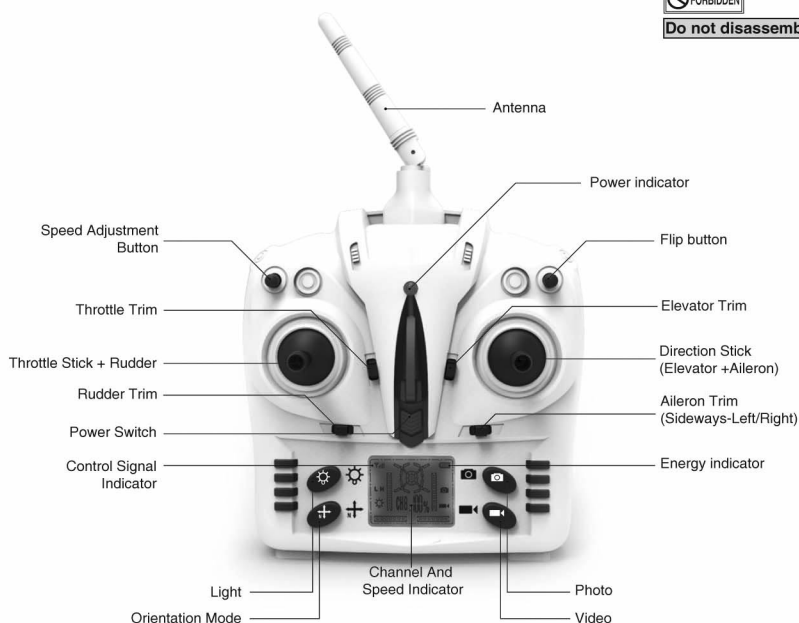
### 5. Parts of the installation



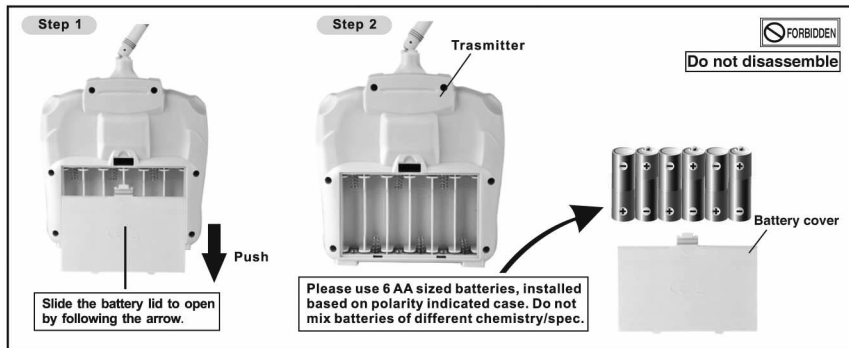
## 5. NOMENCLATURE



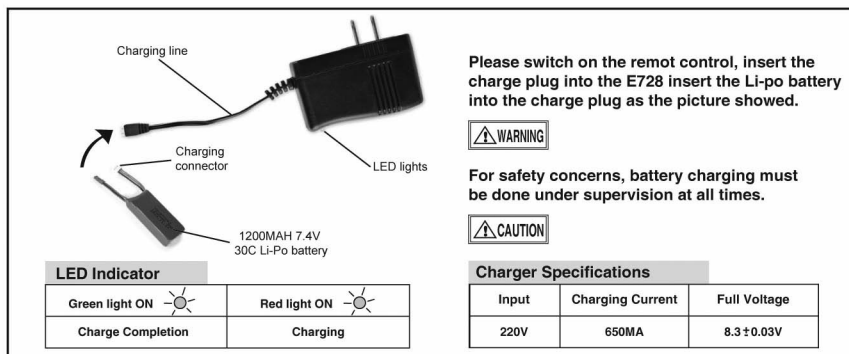
Do not disassemble



## 6. TRANSMITTER BATTERY INSTALLATION



## 7. CHARGING BATTERIES

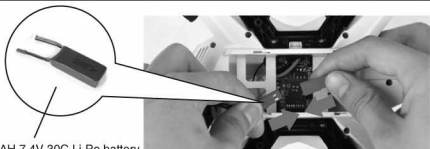
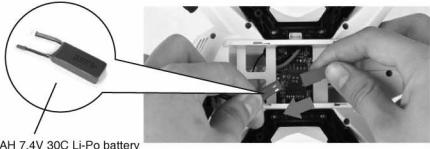



## 8. BATTERY AND CHARGER SPECIFICATION

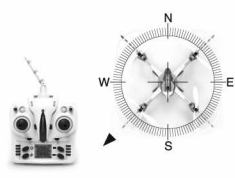
Battery Type	Battery Specification	Usage Duration		Charge Time
Li-po Battery	7.4V 1200MAh	Helicopter flight time	Approx 7 Minutes	Approx 125 Minutes(Charging current approx 0.5A)
Carbon-Zinc (Non Rechargeable)	1.5V(GP 15G R6P)	Transmitter operation time	18 Hours	Non Rechargeable

## 9. BINDING OF RADIO TRANSMITTER AND RECEIVER



 <p>1200MAH 7.4V 30C Li-Po battery</p>	<p>Turn the remote ON. Connect the copter battery and PCB cable, and place it on Level ground. The copter LEDs become static and then start blinking. Push the Throttle Stick STRAIGHT UP to the highest point and then PULL it back down slowly. The binding process is complete. And the copter will respond to controls from the Remote. <b>IMPORTANT:</b> Do not move the copter while the binding process is on, as the Gyro is being set to neutral.</p>
 <p>1200MAH 7.4V 30C Li-Po battery</p>	<p>Remove the flight vehicle battery safely at the conclusion of flight, this should be made into a post flight habit to avoid unforeseeable problems. <b>Warning:</b> If left connected in the flight vehicle for long duration, the battery may be damaged due to over-discharge, or even become fire hazards.</p>
 <p>ON/OFF</p> <p>Take out</p>	<p>Turn off the transmitter. If transmitter is not to be used for a long duration, please remove the battery for storage. <b>Warning:</b> If the AA batteries are left in the transmitter, potential leakage could occur which may damage the transmitter, and create fire hazards.</p>

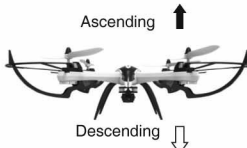

## 10. HYPER IOC FUNCTION


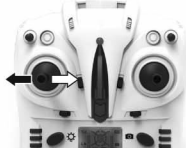
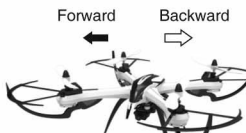



 <p>Outstanding Orientation Mode, can start and fly in any orientation. If it flies far away, no need to worry about losing the orientation.</p>	<p><b>NOTICE:</b></p> <ol style="list-style-type: none"> <li>1.Orientation Mode: Connect the charged battery to the drone. Place the drone on a FLAT surface. Switch "ON" the Transmitter. The light in the drone blinks rapidly; indicating the binding process is on. When the LED remains constant, the binding process is complete.</li> <li>2.After Tarantula flight,LED light of the body is the indicator which the compass mode automatically adjustment.Please don't control the joystick, you can operate other actions after it left the ground which to avoid the compass mode unnormal operated.</li> </ol>
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## 11. FLIGHT ADJUSTMENT AND SETTING

Before you are familiar with the flight vehicle, please don't set it fly, read the instruction carefully. Ger familiar with all kinds of direction control and keep repeating until you can play it as you perform your wishes

- 1.Place the flight vehicle a clear open field and the tail of helicopter point to yourself.
- 2.Practice to operate the throttle stick(as below illustration)and repeat practicing Throttle high/low, Aileron left/right, Rudder left/right, and Elevator up/down.
- 3.The simulation flight practice is very important, please keep practicing until the fingers move naturally when you hear operation orders being call out.









 <p>Ascending ↑</p> <p>Descending ↓</p>	<p>Push up the throttle stick,and the spinning speed of the main blades will increase. The aerocraft begins to ascend. Pull down the throttle stick,and the spinning speed of the main blades will decrease. The aerocraft begins to descend.</p>	
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 <p>Turn right Turn left</p>	<p>Push the rudder stick to the left, and the aircraft will turn to left. Push the rudder stick to the right, and the aircraft will turn to right.</p>	
 <p>Forward Backward</p>	<p>When the rudder stick is pushed upward, the aircraft swashplate will down tilt and it advances. When the rudder stick is pushed downward, the aircraft will up tilt and it recedes.</p>	
 <p>Left sideward fly Right sideward fly</p>	<p>When push the right lever (steering rudder) to the right, the aircraft will fly to the right. When push the right lever (steering rudder) to the left, the aircraft will fly to the left.</p>	






## NOTICE

Push the throttle level slowly; please press the trimming buttons when the aircraft hovers or leans to different directions in the air.

**Attention:** When the aircraft ascends to 30cm high, it will suffer the "ground effect" and its performance will become unstable.

	<p>When the aircraft spins towards to left, please continuously press the trimming button (right-turn trimming) till it stops spinning.</p>	
	<p>When the aircraft spins towards to right, please continuously press the trimming button (left-turn trimming) till it stops spinning</p>	
	<p>When the aircraft flies sideways (towards the left) in the process of hovering, please continuously press the trimming button (right sideways fly) till it recovers.</p>	
	<p>When the aircraft flies sideways (towards the right) in the process of hovering, please continuously press the trimming button (left sideways fly) till it recovers.</p>	



 <p>When the aircraft flies backward in the process of hovering, please continuously press the trimming button (forward) till it recovers.</p>	
 <p>When the aircraft flies forward in the process of hovering, please continuously press the trimming button (backward) till it recovers.</p>	
<p>If the copter cannot upward straight, please make a adjustment, pressing the speed conversion button 100%, also keeping the throttle stick and direction stick to left bottom, until the instruction light flashing then loosen all buttons. When the light normally, adjustment done.</p>	

## 12. FLYING ENVIRONMENT

1. Indoor flying: choose a wide place without barriers, pets and people.
2. Outdoor flying: choose the warm, sunny or windless weather.

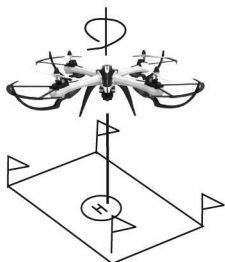
### NOTICE:

- ① Do not fly in extreme temperatures. Flying in extreme temperatures may affect the performance and damage the product.
- ② Do not fly in windy days. The performance and the control of the aircraft will be affected by winds. Windy condition may cause the missing and damage of the helicopter.

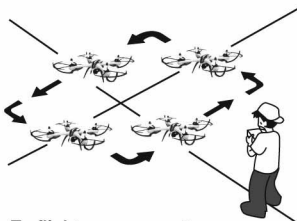
## FLYING PRACTICE

To master the aircraft, please attempt the following flying practices.

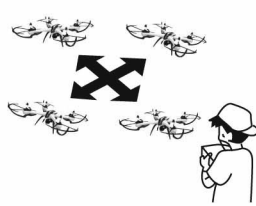
### Fixed-point revolving



Fixed-point landing



To flight a square pattern

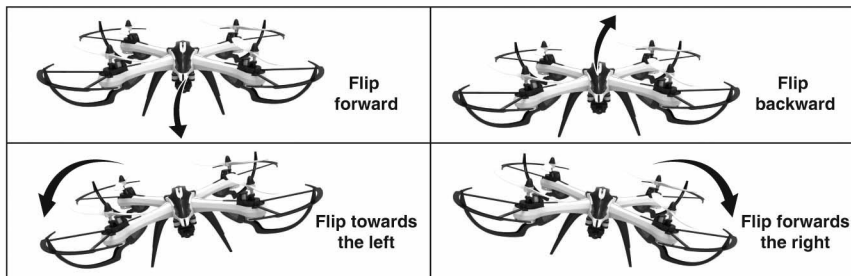


Completion of a cross action

You can sentinel take-off and landing of the aircraft, rotation, and other basic Practice, and then attempt to fly the square, cross-shaped pattern of flight training fly. The indicator light of aircraft is flashing, that means the aircraft's power is low, it remind you to control the copter back.

## 3D FLIP FLYING

Rolls and flips are advanced flying techniques and should be attempted once you have mastered the art of controlling the copter in flight. Please hover the copter at a steady height of 3 meters from the ground, press and hold the flip stunt button and push the elevator stick slightly Upward and release immediately. The copter will instantly perform a Forward 3D flip.

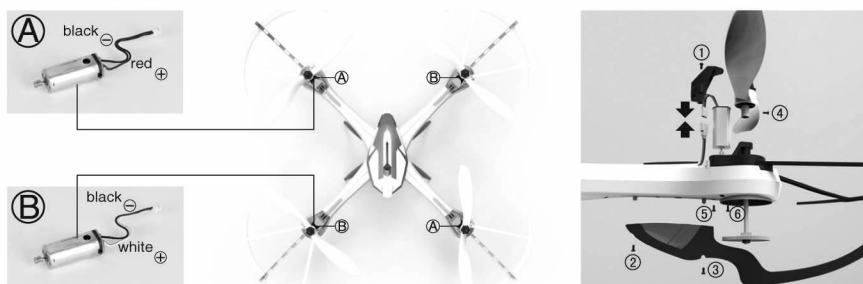


### 13. PROBLEMS AND SOLUTIONS

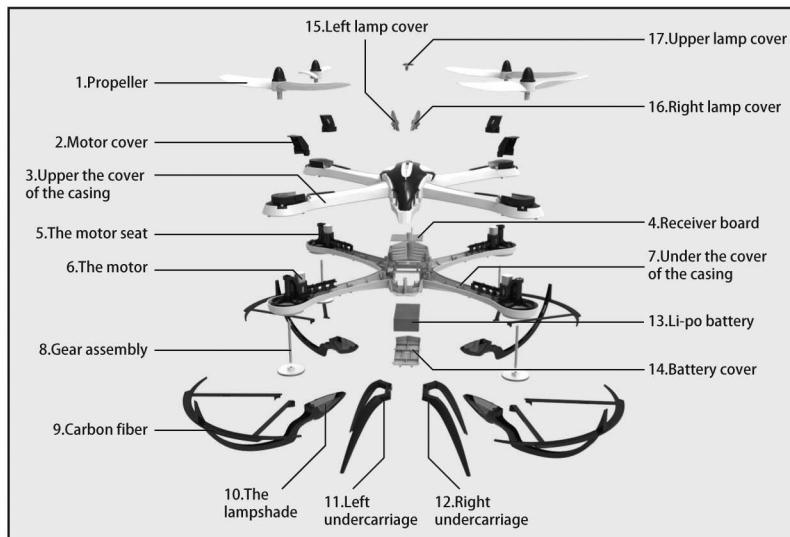
PROBLEMS	CAUSES	SOLUTIONS
<b>Transmitter not working</b>	1.The transmitter switch is on "OFF"	1.Turn on the transmitter
	2.Install the batteries improperly	2.Check with the pole indications and reinstall the batteries again
	3.Batteries are completely consumed	3.Replace with new batteries
<b>Control failure</b>	1.The transmitter switch is on "OFF"	1.Turn on the transmitter
	2.The aircraft battery no connection	2.The aircraft battery in the correct orientation connection
	3.Too strong wind force	3.Do not fly under the environment of windy as too strong wind may cause flying limitation to the aircraft or flying limitation to the aircraft or it may hamper your controlling or flying.
	4.Unable to bind to remote	4.Binding the copter with the remote
<b>Ascending failure</b>	1.The rotation of main blades is too slow	1.Push up the throttle stick
	2.Deplete copter battery	2.Charging the copter
<b>Landing too soon</b>	The throttle stick is pulled down too fast	Pull down the throttle stick slowly to perform a smooth landing
<b>Out of control</b>	Beyond the effective controlling distance	Make sure there is no transmitter with the same frequency is used with in the radius of 30 meters.

### 14. STRONG & UNIQUE DESIGN

X6 has been tested at the harshest conditions with exceptional results to prove the stability and durability of this cutting edge new design.



## 15. PARTS LIST



## 16. ACCESORIES FIGURE

NO.	Name	Quantity	Specification	Code No.
1	Propeller	4		
2	Motor cover	4		
3	Upper the cover of the casing	1		
4	Receiver board	1		
5	The motor seat	4		
6	The motor	4		
7	Under the cover of the casing	1		
8	Gear assembly	4		
9	Carbon fiber	4		
10	The lampshade	4		
11	Left undercarriage	1		
12	Right undercarriage	1		
13	Li-po battery	1		
14	Battery cover	1		
15	Left lamp cover	1		
16	Right lamp cover	1		
17	Upper lamp cover	1		

## **FCC**

**Caution:** The user is cautioned that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

If the device is small than 8cm x 10cm size (in user manual instead of label)

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.

For Class B digital device or peripheral

**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.

When test standard is FCC section 15.247 or 15.407 (such Bluetooth, Wifi)

**Mobile Device** (a device designed to generally be used at a separation distance of at least 20 centimeters is normally maintained between the transmitter's radiating structure(s) and the body of the user) **FCC Radiation Exposure Statement:**

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

This equipment should be installed and operated with a minimum distance of 20cm between the radiator and your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

**Portable Device** (a device designed to generally be used at a separation distance of within 20 centimeters is normally maintained between the transmitter's radiating structure(s) and the body of the user)

**FCC Radiation Exposure Statement:**

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.