

# INSTRUCTION MANUAL

## XK X380 detect



## Specifications

### CONTENTS OF THE BOX:

- 1 x Quadcopter
- 1 x 2.4 GHz remote (6x AA-batteries not included)
- 1 x 11.1V 5400 mAh Li-po battery
- 4 x Spare propeller
- 1 x Charger
- 1 x Manual
- Data line
- Prop guards

### SPECIFICATIONS:

- 2.4GHz Assembled hexacopter drone Ready-to-fly
- 6-axis Gyroscope
- 6 main engines
- 1 Li-po Battery 11.1V 5400 mAh
- Height: 210 mm
- Length: 305 mm
- Width: 305 mm
- Weight: 945 grams

## Security precautions

- Read the manual carefully and completely
- This model is not suitable for children under 14 years and contains small parts
- Children should only use this model under the supervision of an adult
- Keep hands, face, hair and clothes away from blades.
- Stand out of reach of moving parts of the copter
- After using the copter ALWAYS disconnect the battery and remove it from the device
- The model and the transmitter must be switched off after use
- Always fly in an open and safe environment where you will not cause any danger to others
- For the remote control, we recommend AA batteries with a voltage of 1.5 to 1.2 volts
- For people without experience, we recommend that you learn to fly with an experienced user during your first flights
- Before each flight, test the distance limit of the transmitter
- Keep these instructions safe
- Always follow local laws and regulations! Contact your reseller when in doubt.

**DO NOT FLY:**

- Around people or animals
- Around large groups of people
- In limited visibility or dark conditions
- Winds above 2 Beaufort
- Near high voltage pylons and / or other types of cabling
- During thunderstorms, rain or high humidity. The device is not water-resistant.

## Prop guards

We highly recommend to use the propguards we provide with each model. This will not only protect your quadcopter, but also other people, your house interior, walls and all other surroundings that could get injured or damaged if you lose control during flights.

## Battery recycling recommendations

For the sensitive and rational conservation, protection and improvement of the quality of the environment, protection of human health and the preservation of natural resources, the user must send an unusable product to relevant facilities created to this purpose in accordance with the law.

The crossed out wheellie bin means that the product must be recycled (WARNING: do not throw it in your bin).



The user must return used batteries and rechargeable batteries. It is forbidden to dispose of used batteries in the bins containing household waste! Batteries / accumulators containing hazardous substances are marked with the crossed out wheellie bin. The symbol indicates that the product should be recycled. The chemical symbols for the respective hazardous substances are Cd (cadmium), Hg (mercury), Pb (lead). The used batteries can be disposed for free of charge at collection points in your community, stores or wherever batteries are sold. You are kindly requested to conform to your legal obligations and contribute to the protection of our environment.

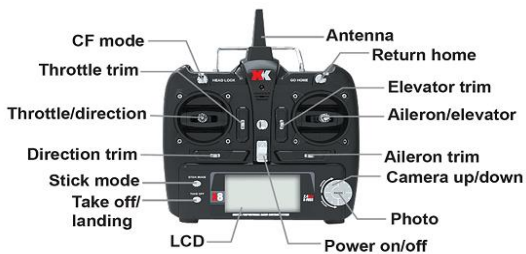
## Li-po Battery instructions

- Keep the batteries out of reach of children
- Non-rechargeable batteries should not be recharged
- Unequally charged batteries or different battery types should not be used together
- Use recommended batteries or similar
- After using the copter, remove the batteries if you will not use it again for a long period of time
- The terminals must not be short-circuited
- This model is equipped with a rechargeable Li-po Battery. Li-po batteries require special attention, follow the manual
- The batteries must be charged with the charger supplied by WLtoys
- When charging the battery, always ensure that you do so on a non-combustible surface
- Do not leave charging without supervision
- Always charge the battery to 100%
- Ensure that the battery wires are not in contact to avoid a short-circuit
- The ignition wires of the battery must not be modified or damaged
- Never damage the battery mechanically (this could cause an explosion)
- The battery should not be placed near children (unless you have an adult supervision)
- The technical design of the battery must not be changed
- Touching of damaged batteries can cause injury. If there is contact with skin or eyes, seek medical attention immediately!
- Do not charge directly after the flight or when the battery is warm

## Battery charging

Warning : Always place the battery on a heat resistant surface and never leave it unattended!

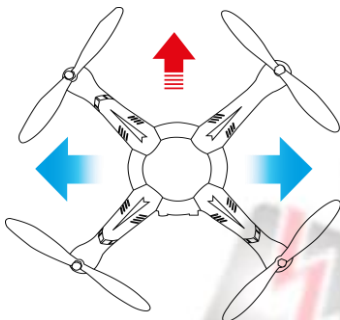
## Remote Control / Transmitter



1. Heading lock switch: the heading lock function is entirely the same as the headless and care free functions. With this switch you can fly out of your own perspective instead of the perspective of the copter. Activate this switch while the copter is on the ground directly in front of you, and pointing away from you.
2. Return switch: the return switch is also known as the return to home function. When activating this switch your copter will fly upwards to a pre-programmed height and will fly back to its initial position on which it activated its GPS.
3. Throttle: the joystick on the left is called the throttle. Pushing it forward will increase the height of the model. Pulling it down will decrease the altitude. Moving the stick to the left and right will rotate the copter around its directional axis (yaw).
4. Lever: the joystick on the right is referred to as the lever. It allows for movement of the copter on the horizontal plane. With the direction out of the perspective of the copter.
5. On camera: moves the camera up, if a gyro is connected.
6. Under camera: moves the camera down, if a gyro is connected.
7. Take off and landing: see flight instructions.

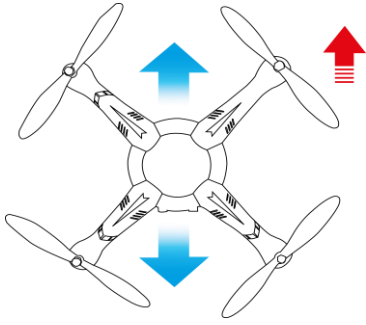
## How to fly

Flying is really simple, but you need a little practice at first. Connect to [www.wltoys.eu](http://www.wltoys.eu) to watch educational films.



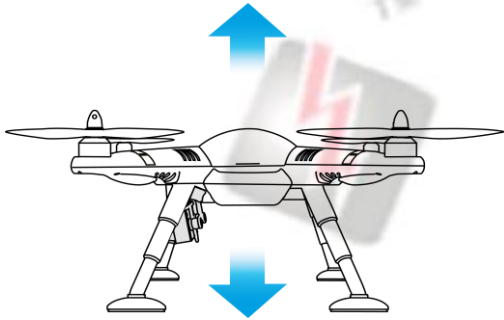
### SIDEWARD

The directional lever serves to move the drone to the left or the right.



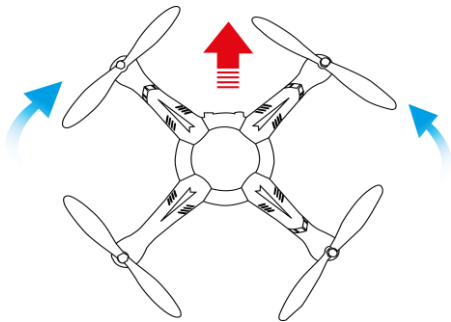
### FORWARD

Pushing the directional lever up and down makes your drone go forward or backward.



### ALTITUDE

Pushing the gear lever up and down makes your altitude rise or fall.



### TURN

Pushing the gear lever from side to side, the drone will turn on its own axis.

## The first flight

1. For your first flight make sure to be with a person experienced in flying copters. We advise you to make your first flights on a relatively soft surface to protect the copter.
2. Find a location away from people, with a smooth surface and without obstacles. Trees, electric lines and water points in the immediate vicinity should be avoided!
3. Place your copter on the ground about 10 feet away from you. Mind that, when you have a quadcopter, the coloured blades indicate the front of the copter. It is easiest to position yourself behind the copter for an easier control.
4. Start with practicing throttle control; lift the copter up and down by slowly pushing the throttle up and down. If you got this under control, push the throttle up and slowly move the rudder stick right and left to make the copter fly small fractions left and right.
5. Draw a circle on the ground and practise within the circle to increase accuracy, from behind and front of the copter.
6. To correct the copter, just after take-off use the trim to correct position. If the copter leans left, trim to right, and if the copter leans right, trim to left. Same for leaning forward, trim down, and when the copter leans backward, trim up.
7. Only for the X380, the one key for take off and landing works for the current flying position and should not be mistaken for the return home button. For one key take off; press the take off button for 2 seconds, the motors will start and the copter will climb 1 meter. For one key landing; press take off button again for 2 seconds during the flight, the red light will start flashing and the copter will start landing, afterwards the motors will turn off.

Step 1: Turn on the controller, while both switches on top of the controller are turned down, and plug the battery into the copter. While the copter is on a horizontal surface.

Step 2: (in mode 2) hold the left joystick in the lower position and switch the heading lock switch (top left) a couple of times until the indication light on the back of the copter turns green.

Step 3: Now spin the copter in circles in a horizontal position without the green indicator turning off for 3 rounds.

Step 4: Repeat step 2, but this time the light should be turned completely off.

Step 5: The indication light of the copter should now turn red when the copter is held in a vertical position.

Step 6: Spin the copter in 3 circles while holding it in a vertical position, without the red light turning off.

Step 7: Put down the copter on a horizontal surface.

Step 8: Hold the left joystick in the lower position and switch the heading lock switch (top left) a couple of times just like you did at step 2 and 4. Now the indication light should be turned full green.

Step 9: Wait about 30 to 120 seconds until the indication light flashes red/green or only green. If not, please repeat from step 1.

## Troubleshooting

1. The receiver LED blinks continuously for more than 4 seconds after the quadcopter battery have been inserted. No response to the command input. The transmitter is not connected to the device. Repeat the power-on initialization process.
2. No response from the quadcopter after the battery have been connected. There is probably contact failure on the battery terminals. Turn on the transmitter and ensure that the battery of the vehicle is correctly inserted. Replace the battery and ensure good contact at the battery's connections. Use fully charged batteries in the remote.
3. The motor does not respond to the throttle stick and the receiver flashes. The quadcopter's battery is exhausted. Charge the battery or replace it with a charged battery.
4. The main rotor continues to rotate after landing. Confirm that the gear lever is oriented downward.
5. The main rotor rotates but the device does not take off. The blades may be distorted or the quadcopter battery is exhausted. Charge or replace with a fully charged battery and / or replace the blades.
6. The quadcopter suffers of strong vibrations. The blades are distorted. Replace the blades.
7. The tail is not balanced after adjusting the clip or speed is inconsistent in the left / right pirouette. Tail rotors are probably damaged. Replace the main wing and / or the main engine.
8. The quadcopter was still moving forward after the adjustment of the levers during hover. The gyroscope is not correctly calibrated. The gear lever is placed too high or too low. The boot refines the calibration therefore restart on a flat surface.
9. You can not fly, the helicopter falls. The motor is probably fall out or the gears are loose. Reinstall the motor and tighten the gears.

## Spare parts

The copter is not sensitive to crashes, but in case of extreme drops it is possible that some parts may break. All parts can be ordered and easily assembled. Please contact your dealer or visit [www.wltoys.eu](http://www.wltoys.eu) for more information.

## Wltoys



Imported by: WLtoys.eu / DroneX BV  
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Our products comply with the standards and criteria of the European Union and approved by the EC. For your safety, we recommend that you read the entire manual before your first flight.

Congratulations on your purchase of this product from wltoys.eu! WLtoys.eu offers its customers a high quality product. All our products are carefully tested before shipment. If unfortunately a problem persists, contact your dealer or visit [www.wltoys.eu](http://www.wltoys.eu). Your dealer can also assist you in getting spare parts in case you need them. We hope you will enjoy your experience with our product.

You can contact us at any time on : [www.wltoys.eu](http://www.wltoys.eu) | [support@wltoys.eu](mailto:support@wltoys.eu).  
You can find instructional videos and buy spare parts on our website [www.wltoys.eu](http://www.wltoys.eu).  
For technical support contact your reseller.

### **WARNING:**

**Non-compliance with safety rules may cause damage, injury and / or dangerous situations.**

## Warranty

The use of this product is entirely at your own responsibility and at your own risk. Since we have no control beyond this manual on when and how you use our product (both flying and maintenance), we are not responsible for any damages or costs incurred by improper use.

This warranty covers manufacturing and material defects in the context of normal use. We take no responsibility for damage caused indirectly.

**The following are excluded from the warranty:**

- **Damage caused by the failure to comply with security measures or instructions**
- **Extreme treatment which can not be contained in the usual standards**
- **Overloading the vehicle or external influences**
- **Homemade modifications on the product**
- **The damage caused by the loss of control of the vehicle**
- **Electric defects due to voltage overload or lightning**
- **Normal wear and tear of the device and parts**
- **The costs of transportation, shipping or insurance**
- **The damage caused by the humidity**
- **The damage caused by the loss of the product**
- **After three flights the warranty of brushed engines is void**