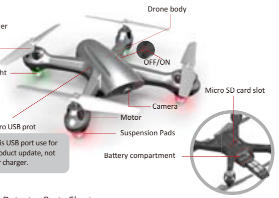
66139 X-Detector 3.0

User Manual

AGE: 14+



This USB port use for product update, not for charger.

▶X-Detector Parts Chart:

⊙X-Detector 3.0 HD Camera Drone	⊙7.4V 1200mAh Drone Battery
⊙Remote Controller	⊙Spare Propeller with screw (×4)
⊙USB Cable and Charging box	⊙User Manual
⊙Mobile Device Holder	⊙Glare Shield

Safety Warning:
• To ensure safety, parents should read this User Manul with chilren before start playing.
• To avoid injury, do not touch the product while flying or the propellers still move.
• Be careful to keep your body and loose clothing away from the propellers and motors.
Do not modify or change this product without authorization, or it may injury of your rights and interests for this product.

▶Technical Parameter:

Drone	
Drone Battery	7.4V 1200mAh LiPo
Weight	220g
GPS Hover Accuracy	Level: ±2.0m Vertical: ±1m
Wheel base	220mm
Flight time	15min-20min
Max Up/Down Speed	Up: 5.0M/S; Down :3.0M/S
Max flight speed	8.0M/S
Max dip angle	35 degrees
Camera	
Working environment temperature	5°C~40°C
Effective pixels	720P
Resolution	Photo:1280 x720 JPGE Video:1280x720 MP4
Remote Controller	
Control Range	Remote Conrol:200m/WIFI:60m
Battery	1.5V 4 X AAA

▶Flight Safety Guidlines:

⊙When install the propeller, please rotate the propeller accordance with the rotation direction marked on the Detector, tighen the screw clockwise,attention do not force too much or may damage the product.

⊙When dismount the propeller, please rotate the propeller accordance with the rotation direction marked on the Detector,loose the screw anticlockwise,otherwise demage of the product may cause.

⊙Avoid strong wind(≥ level 4),rain,snow or other server weather.

⊙Always choose a wide open area without tall building to fly your drone,tall cement building will interference with the compass.

⊙Avoid obstacles such as crowds, power lines, trees and water.

⊙Do not fly in a electromagnetic environment with base station or launch tower, otherwise the remote control and drone will be interfered.

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⊙Stay informed of and abide strictly by relevant local laws and regulations. Keep away from a non-flight zones

▶ Preparation

Battery Introduction:

The 7.4V 1200mAh battery is specially designed for X-Detector with charge and discharge. Only use the provided charger to charge the drone battery.

Battery specification	Drone	Remote Control
Type	Lithium Polymer	1.5V Alkalinity 4 X AAA
Capacity	1200mAh	N/A
Charging environment temperature	5°C~40°C	
Discharging enviroment temperature	5°C~40°C	
Charging and discharging environment relative humidity	<80%RH	

Charge the Li-PO Battery

⊙ Put the battery into the charging box and plug the provided USB cable into the charging box , then connect the other end of the USB cable with a 5V power source (eg: laptop.)
The red LED light on the charging box will light on.

⊙ The green LED on the charging box flash while Charging.

⊙ The green LED steadily when charging is complete. Unplug the USB cable and pull out the battery.

Caution:

⊙ Do not remove the battery while charging,or the charge port may damage.

⊙ If not intend to use the battery for long period , it should be removed and kept in dry and low-temperature environment with 40%-50% capacity, it is not normally necessary to recharge stored LiPo batteries unless stored for periods longer than 3 months.

⊙ When charge and discharge over 100 circle, replacement of battery is recommended. Please full discharge the used battery before disposing.

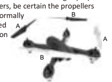
⊙ When the battery accidently ballooning, effluent or belches smoke, please immedia -tely stop using the battery, or it may fire or explode, replacement of battery is recom -mended.

⊙ Do not charge swelled or breaked battery.

⊙ Attention to the charging process, do not place the battery near flammable materials.

▶ Propeller Preparation

The different side propellers are not identical (see A/B orientation marking in propellers and rotor axles). While installing replacement propellers, be certain the propellers areinstalled on correct motor, the drone will not fly normally for wrong propellers installation. To replace a damaged propeller, remove the old propeller,insert a new one on the corresponding motor shaft, then fix the rotor proppler tightly by rotating them. Do not overtighten otherwise the propeller will not turn. Take advantage of tools if the propellers cannot dismount by hand.



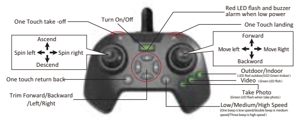
Caution:

⊙ Ensure the propellers are correct and firmly installed.

⊙ To avoid injury and damage, please inspect and make sure the propellers has no nicks or breaks, and make sure they are securely installed before and after flight.

⊙ Keep eyes, hands, hair, and loose clothing away from moving propellers and motors.

⊙ Only use the provided propellers. Do not alter, modify, or customize.



▶Flight Preparation

⊙ Pre-fly Inspection

(1) Ensure both of remote controller and drone are full of charge.
(2) Ensure the propellers are installed correctly.
(3) Ensure the MICRO-SD card is inserted if photograph or video recording is needed.

⊙ Calibration

When first use of this product or use in a new place, The compass be calibrated,otherwise flight safety may effected.

Compass is susceptible to other electronic devices, uncalibrated compass may carry abnormal data that affect flight, even leads to flight accident. Frequent calibration can maintain the compass in a good working condition.

*Do not calibrate in a high magnetic field.

*Do not carry electromagnetic material such as key and cellphone.

⊙ Calibration Procedures (only apply in APP)

(1) Connect the APP to entering the operation interface;
(2) Press the setting button and choose compass calibration, follow the prompts to calibrate compass.

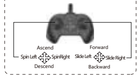
Switch Throttle Location :

⊙ The factory set the throttle on the left, if you want to switch the throttle location, turn off the remote controller first:

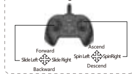
⊙Switch throttle to right: Pull down the steering and press the "one button landing" at the same time, hold on and turn on the remote controller. The remote controller will beep when switch succeesful.

⊙Switch throttle to left: Pull down the steering and press the "one button take off" at the same time, hold on and turn on the remote controller. The remote controller will beep when switch succeesful. APP user can swtich the throttle position in the "settings".

Throttle on the left

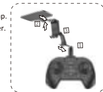


Throttle on the right



▶ Mobile Device Holder Installation:

(1) Install the moble device holder to the antenna cap.
(2) Install the glare shield to the mobile device holder.
(3) Adjust the angle of the mobile device holder.



▶Basic Flight

(1) Place the drone on a flat and wide ground, let the rear of the drone face player.

(2) Turn on the drone, the LED on the forearm and rear arm light on and steadily to enter auto-check mode, after 8 seconds, the LED on forearm flash quickly, the LED on the rear arm off automatically and waiting for pairing.

(3) Turn on the remote controller,the green power indicator LED flash .The drone and remote controller start paring automatically.

(4) After paired, the green LED on the rear arm slowly blink and searching GPS satellite signal.

(5) The drone will beep constantly while searching the GPS signal, when searched more than 7 GPS satellite signals, the green LED on the rear arm light steadily and the beep last 2 seconds , the drone can be take-off.

(6) Press the ( ) button for 2 seconds, the drone will automatically take off, ascending about 2m then hover. player can move the steering to control the flight direction.

(7) For speed options,ress the( )to choose speed (High / Medium / Low).

(8) When landing, slowly move the throttler down or press( ) button to steadily descend the drone and landing, the propellers stops when successful landing.

(9) When finished flight, turn off both the remote controller and drone。

▶Trim Your Drone

Take off the drone and observe how the drone reacts.

Forward/Backward Trim: If the drone tends to move forward, press(▼) ; if it tends to move backward, press (▲).

Left/Right Trim: If the drone tends to slide right, press (►) , if it tends to slide left, press(◄).

▶Auto-Return When Drone Lost Signals

When the drone lost signals, the control system will control the drone fly back to the takeoff point and landing automatically.

Auto-Return Mode Awaking Situation:

⊙ The remote controller is off.
⊙ The drone beyond control range of remote controller.
⊙ The signals of remote controller is disturbed.
⊙ The drone is low power.

* If the flight height over 15m from the take off point, the drone will return directly, if the flight height less than 15m from the take off point, the drone will fly up to 15m height then return.

* The drone is unable to avoid obstacles on the way of return, player need control the drone to avoid obstacles.

Note: Move the steering can adjust the flight direction on the way of return, if need perform manually return, press( ) to return the drone manually, after landing, player still need press ( )again to exit from return mode. If awaked auto-return situation, the drone will exit from return mode automatically after landing.

▶ Outdoor mode and indoor mode

1. Outdoor Mode: The factory setting is outdoor mode ( ), the green LED on the remote controller light steadily under this mode ,outdoor GPS localization precisely.Outdoor flight mode is recommended when fly the drone in outdoor.

Indoor Mode: Press the ( )button 3 seconds to switch to indoor mode, the blue LED flash indicates switch succesful. Indoor mode apply to the no GPS signal situation. Under this mode,the drone hovering throuht pressure sensor which may affect the camera's shooting effect and flight effect, so indoor mode is not recommended.

Note: * Under indoor mode, advise flight at low speed in a large space.
* Move the throttle slowly to descend or ascend. Avoid moving the too quicky in case the propellers stop suddenly and crash the drone.

▶ Camera Application

1.Insert a Micro-SD card(not include) into a the card slot, you will hear a "click-clack" when the card correct inserted.

2. Camera function applied when the drone flight stable.

* Taking Photos: Press ( ) button once to take a photo, the button will flash once, the remote controller will beeps one time inditcate take photo successful.
* Record Videos: Press ( ) button to record a video. The green LED on the remote controller keep flashing while recording, press again to stop recording.

3. Stop recording if you want to removing the Micro-SD card. Turn off the drone and press the SD card to popup.

Note: If the SD card impact, removed, or the battery of the drone removed, the video may unable to save.

▶ APP Operation

1.Download and install the APP.

⊙ IOS users search "X-Detector" in App Store to download and install the APP.
⊙ Android users search "X-Detector" in Google Play to download and install the APP.

2.Connect the drone and the mobile device.

Turn on the drone , the LED on the forearm of the drone start flash and waiting for pairing. Turn on the wifi on mobile device,search and connect to"Detector-xxxxxx"

Note: If the"Detector-xxxxxx" is not available, please turn off the wifi and restart. Please ensure that the mobile device is support.

* IOS 8.0 or above * Android 4.0 or above.

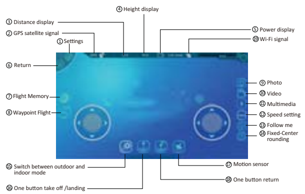
Ipod, ipad, ITouch and other smart device are not recommend since they are not support waypoint planning function.

3.Settings

Before fly the drone, please setting the mobile device----Go to Settings and turn on the GPS. Open APP "X-Detector", click "play" to enter operation interface, the red LED on the forearm light steadily , the green LED on the rear arm flash, when the green LED on the rear arm of the drone steady from flash means the drone can be take off.

▶ APP Interface

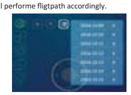
Open the APP, manu interface will prompt, after connected the wifi can be enter main interface, click"Play"to start.



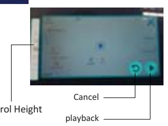
① **Settings( ) :** Click and enter setup submenu to achieve more setting options.
② **GPS satellite signal :** Visible signal intensity, take off forewarning.
③ **Distance display :** Visible the drone flight distance under GPS mode flying.
④ **Height display :** Under GPS flying mode, the flight height of the drone is visible.
⑤ **Power display :** The Battery power of the drone is visible.
⑥ **Return(⊗) :** Click to return to last interface.
⑦ **Flight Memory( ) :** Recording flightpath, playback
⑧ **Waypoint Flight ( ):** Click the map several times, the drone flight along those points that the player click. Flight height can be adjust from 5m to 65m.
⑨ **Take a photo( )**
⑩ **Video( ):** Start/stop video recording
⑪ **Multimedia( ):**Click and review the photo/video.
⑫ **Speed setting( ) :** 30/60/100%, Defaulted speed: 30%.
⑬ **Follow me( ):** After entered, the drone can follow the player from forward / backward / left/right direction and shoot. Maximum follow speed : 15KM/H. Suggest fly the drone 5m away from the home point then perform follow me function.
⑭ **Fixed-center rounding( ):** Rounding and shooting a fixed-center, rounding radius can be adjust .
⑮ **Switch between outdoor and indoor mode( )**
⑯ **One button take off /landing( ) :** Click to take off/landing.
⑰ **Return Mode( ) :** when the drone beyond control or lose signal or low power, the drone can be automatic, return to take off points.
⑱ **Motion sensor control ( ) :** Swinging mobile devices can control of drone flight direction.
⑲ **Wi-Fi signal( ) :** show wifi signal strength of the drone.

Flight Memory ( ): Click ( ) to recording the present flight path used for teaching review. click( ) to stop.

List button: Click( ) to look at history recording , click one history recording, the drone will performe flgtpath accordingly.



Waypoint Flight ( )



1. Click to enter the Waypoint flight function, the Height adjustment lever can control the height of the drone.
2. Click one or more point in the map, the points will forming a spotted circle or line, click the "start" the, drone will flying along the circle or line.
3. Click the "cancel" button can cancel the newest point. If the drone is flying, the drone will hovring immedietaly when clear the points.

Note: ⊙ This function require map function of the mobile device, offline map is acceptable.
⊙ When planing the path, please click the map, not drag the map.

4. Follow Me Mode( ): Click the button,the button will light up, the drone will adjust its angle to aim it's camera to the player, the drone identify and follow the player automatically.Photo and movie shooting are still working under follow me mode.Suggest fly the drone 5m away from the home point then perform follow me function.
5.Fixed-Center rounding( ): After flying,click the button, the button will light up, the drone will regard current position as a center to performe 360°rounding, move the steering can control the rounding radius.
(radius can be adjustment within 1.5m-12m)

▶FCC STATEMENT

1. 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.

2. Changes or modifications not expressly approved by the party responsible for comp -liance 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, pursuant to Part 15 or 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 casue harmful interference to radio communications, However, there is no guarantee that interference will not occur in a particular installation. If the 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.

Warning: CHOKING HAZARD –Small parts.
Not for children under3 years.

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Parts Not For Children Under 3 Years

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