# EXO x7 Range Plus GPS Smart Drone Instruction Manual

**EXOTECH CO**

**Contents**

**x7 Range Plus GPS Smart Drone**



x/ Ranger PLUS
GPS SMART DRONE
Please read the manual carefully before flight and keep it for future reference.

## QUICK START GUIDE

Learn more about drones before flying
For details. please refer to the instrucbcn manual.
Please ensure that the drone and romoto control bottom,' aro fully charged before the fight

1. Precautions for the installation and use of obstacle avoidance equipment:

⚠️ **ATTENTION**

A Obstacle ovodance equipment must be installed Delete turning on the power of the drceio. otherwise I damace the obstacle avoidance ethooment and affect normal use.



1. Take off the cover to reveal the attach point for the obstacle avoidance sensor.



2. Insert the obstacle avoidance equipment as shown in the picture

B. When turning on this product, do not touch the obstacle avoidance equipment. the obstacle avadance equipment is in the perwer.on working stale. touching it wit cause the obstacle avoidance equipment to not work normally, and it me most likely damage the obstacle avoidance equipment ability to function
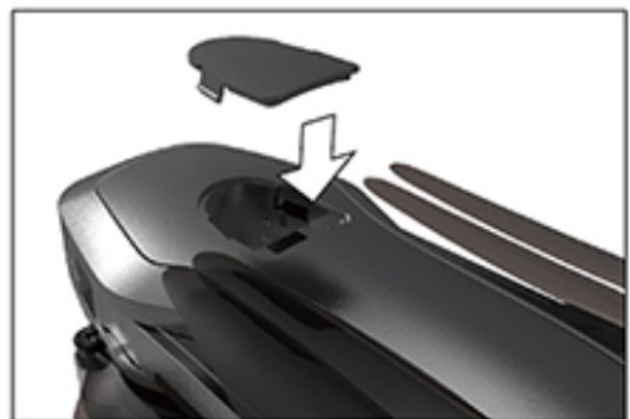




The obstacle avoidance equipment will automatically rotate from left to right. DO NOT touch, interfere, or handle the sensor or it will not work properly.

C. Turn Ranger off before rem:Art.9 the obstacle avoidance equipment, you can easily damage it otherwise and cause malfunctions.



1. Remove the obstacle avoidance equipment as shown in the figure.



2. Reinstall the cover where the obstacle avoidance equipment attaches.

2.  Precautions for using the PTZ camera:

⚠ **ATTENTION**

A. REMOVE the protective cover from the camera BEFORE powering on Ranger.

B. DO NOT touch the gimbal camera! The gimbal automatically calibrates the moment the drone has power. Disrupting the calibration process by touching or abrupt movement will cause the gimbal to calibrate IMPROPERLY, aswell the calibration process could be permanently damaged. Please do not touch the gimbal when battery is in drone.
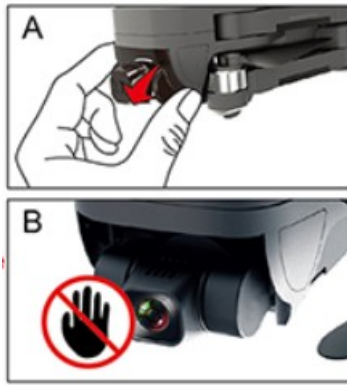
3. Remote control and drone pairing Remove rebel corer. power al the drone. then place a on a tat LAW* directly in front of the control*

Pon on the eoreolloc the contsoller light %II if artubOn from fitlArig to Sold. stable the controW rs COnneded 10 Rana*,

⚠ **IMPORTANT** Please perform the geOmagnetC correction first. kilned by the gyroscopic gimbal calibtabOn.



4. Geomagnetic correction Place the drone en the sat surface. then pass and held the Cotton in re upper tight lot 5 seconds to perlOMI WenprIOC ecereceon (figure 1)

The bits on the drone wad beton to Rash IA:41y. PO up MO draw and rotated CliSelcarie '.tile WON d honzontale, (Icon 2). A beep sound wawane si.ccossid Ogren calibraton

Now position Ow drone WACO./ with the camels pointing down ROW, the drone vertically GU you In motet beep (figure 3). TM drone light$ wet Sash *ray noting sscoesski calibration!



5. Drone gyroscope and gimbal level calibration With the drone on

• flat surface. Voss the bonen on the lop left side of the remote unti you her a beep (fore fa t rep)

Ten w• canine the gyroscope and combat level cabmen Mons

Long press this key
for 5 seconds

Drone placed horizontal
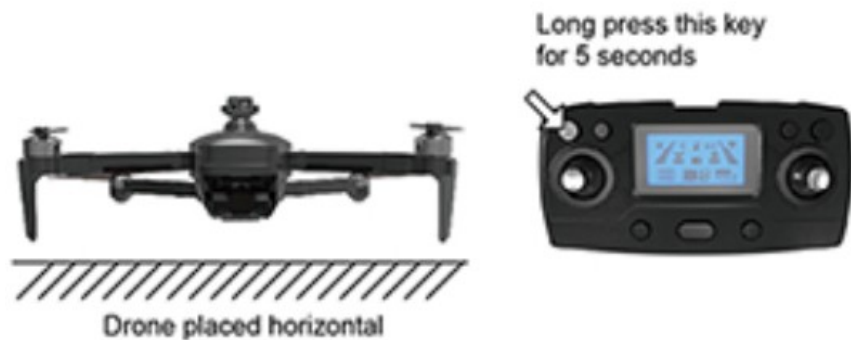
6. Flight mode switch Ranger has 2 flight modes GPS and Optical Floe Modes
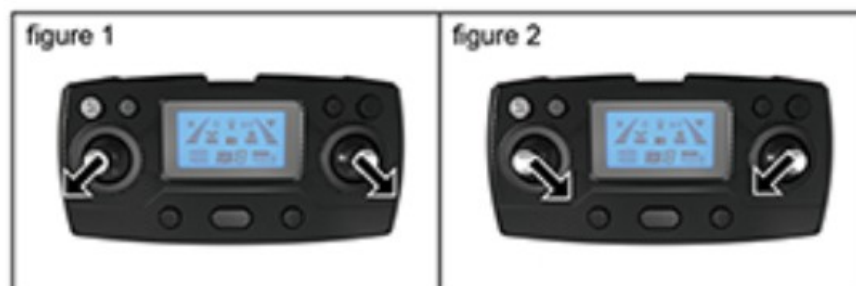
   By default GPS mode (mode 2) ri on This mode needs to kxate at least 8 saberctes for 4 to lake pfi If tt can not find 8 sate lileS d can not take off You can sentch modes by prenng the record button for 5 seconds (shokm right) NOTE' switching to optical mode voids the GPS related functions (one-tick return. lose-power return. uncontrcaed return. etc ) Pay attention to avtudlottng the drones Optical mode can cause malfunction if Mown too far from user Note II it rot positebte to s reds to optical flow mode after GPS pos*one vs coniptipted To snick, rou need tift tan Oft rit arca. ass ttexe. ca c4 and restart.



Long press this key
for 5 seconds

7. LOW and HIGH speed modes Note By defaul, the drone tS in LOW speed mode which has obstacle avoolance functions ACTIVE If you switch to HIGH speed gear mode. the forward Obstacle avoidance function of the drone wit automatically turn OFF The drone will no longer amd obstacles. the user must be aware of their drone's surround ngs to avoid crashing.



Short press this key to switch speed

Short press this key to switch speed

LOW mode has obstacle avoidance function ON

HIGH speed mode has obastacle avoidance OFF

8. Drone unlock



figure 1

figure 2

To unlock &One

Please perform the movements in the figures with the joy sucks (*sot-at:Cy Both sticks down and in or both

sticks down and out.

9. Battery charging

Removing drone battery Press the battery latch down and p.,11 the battery out Make sure hands and drone are competely dry before hanging



**Charging Battery and Remote**



 **Tips:**

• Insert the plug in the correct way.

• It is recommended to use 5V 1-2A adapter for charging.

10. Remote and app usage

(1) Scan the OR code to download and inStall the app, supports IOS and Androd



(2) With the drone powered on. go to your derce's settings and WIF I connections Find the drones network name and Connect It does not require a pasSwOrd

please click MAN in the settngs of the mottle phone, as shown in the figure below, select the XL•PRO•56•(drone renal a) network and Connect then open the mobile nip to use



Note If you wish to use the mobile app to condo( the drone instead of the remote. you need to turn off the

remote control before using it. The mobile phone is connected to the -XL-PRO-SG"' (Serial Number)• network and connected. and then you can open the mottle app to use as a controller
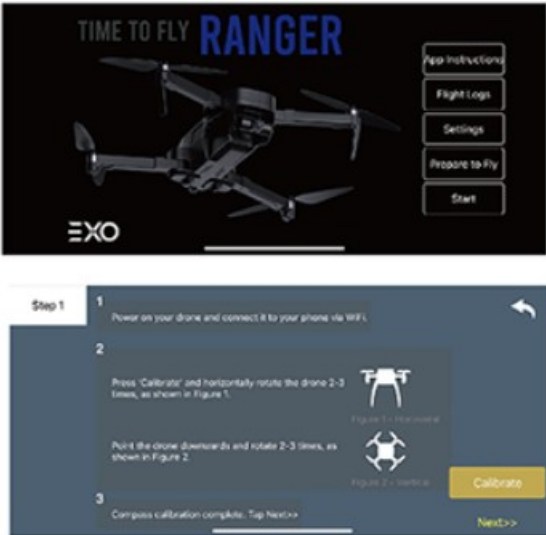




Tutorial Videos
PART 1 – QUICK START
PART 2 – FLIGHT FEATURES

| | |
|---|---|
|  | |
| **https://qrco.de/bcHm62** | |

Mode 1: The optcal flow mode is suitable for open indoor spaces. After the drone and remote control are connected, and the geomagnetism and gyroscope are corrected, the display on the remote contol changes from Mode 0 to Mode 1. At this time, the drone will automatically perform GPS satelite positioning. To get to GPS mode (mode 2). press the button shown the figure below for 5 seconds. Remember, the drone will not be able to take off without the 8 needed satelites. (Note: Mode1 optical flow mode does not have GPS functions such as low-power retum, one-click retum, etc. Please pay attention to the flight distance and aititude when using)



Press and hold the video button for 5 seconds, the remote control wil make a "drop", indicating thet the GPS function is tumed off

Mode 2: GPS / Optical Flow Qual mode is suitable for outdoor open areas without signal interference. After the drone and femote control are inked, the geomagnetic and gyroscopes are corrected. the display on ihe remote contol changes from Mode 0 to Mode 1, af this time the drone GPS satelite search and position sulomatically (Drone search should be placed in an open area when searching for saledites, and there should be no obstructions such as high-rise buildings or cars, tugh-voltege power ines, or the drone will not be able to complete GPS satelite search and posdorang). Once the mindvasm of 8 sotelides are connected. the controller will make @ sound indicating the positioning has been completed and the display frequency of the remote control changes from Mode 1 to Mode 2 to indicate that the postoning is successful. and the takeoff can be performed.

**Note:** if the GPS mode is not successfully completed. the drone automatically enables the protection system and cannot take off.

**x7 Ranger PLUS USER MANUAL**



**Important notices and safety guidelines**

You are welcome to purchase our products. In order to make 4 easser and more Convenient for you to use thes drone, please read thus manual carefully before operating, and plesse keep this manual in a safe place for future reference such 83 adyusiments and mamlenance

- This product is not a toy, but a precision device that integrates mechanucal, electronic, aerodynanucs, high-frequency emission and other professional knowledge into one. It requires correct assembly and debugging to avoid accidents. The product owner must use 8 safe method to operate the control; improper operation may cause senous personal injury oF property damage.
- This product is sustabie for people who have experience in operating model drones and are nol less than 14 years old.
- If you have any questions about use. operation, maintenance, elc , please contact your local desler or our Company. Our company and the seller are not responsible for any loss and damage caused by improper use of operation and human inyury

- The product contasns small parts. Keep it out of the reach of children to avoid the danger of accidental eating or suflocation.

**lavys and regulations**

To avond possible wngury and loss from illegal activities, the following items must be observed.

- Never fty near a manned aircrafi, and land immediately if necessary.
- Ris forbidden to use aircraft on the scene of large-scale events. These venues include but are not limsted to: sports competition venues and concerts.
- Never fly in areas prohibited by local laws.
- Ensure that the awcrafi will not affect the large manned awcraft on the route when flying. Always be vigdant and avoid other aucraft.

## Safety Precautions

The remote control model UAV is @ high-risk commodity, so keep away from the crowd when flying. improper assembly or damage to the body, poor electronic control, and unfammiar operation can all lead to unpredictable accidents such as Gamage to the drone or personal injury. Operators must pay attention to fight safety and understand all responsibsties for accidents caused by thes neghgence.

- Keep away from obstacles and people

  Thes Unmanned Aerial Vehicle (UAV) has uncertain flight speed and status when flying, and there is potential danger.

  When fying, you must stay away from crowds, high-rise buildings, high-voltage power lines, etc., and avoid flying in bad weather such 88 wind and rain. The commissioning and installation of the drone must be operated strictly in accordance with the operating instructions. Pay attention to maintaining a distance of 1-2 meters from the user or other people when the drone is fying. And the body, causing injury.

- Keep away from hunad environment

  The interior of tre drone is composed of many precision electronic components and mechanical parts. Therefore, if 1s necessary to prevent the drone from getting wet or water enlering the body, so as to avoid accidents caused by mechanical and electronic component fadure. During maintenance, please wipe the surface stain with a clean cloth.

- Avoid manipulation alone

  The remote control drone control technique has certain difficulties in the early stages of learning. To avoid fying alone, you need the guidance of experienced people.

- Proper use of this product

  Please use our original parts for modification or maintenance to ensure the safety of fight. Please operate and use the product within the scope permitted by the product function, and shall not be used for any egal purpose other than safety regulations.

- Safe operation

  1. Please operate the remote conirol drone according to your state and flying sialis. Falgue, mental retardaton, or improper operation will increase the nsk of accidents.

  2. Oo not use near your ears! Misuse can cause heanng damage.

- Keep away from high-speed rotating parts

  When the drone rotor is rotating at high speed, please keep the pilot, surrounding people and objects away

from the rotating parts to avoid danger and damage.

- Keep away from heat sources

  The remote control drone is composed of metal, fiber, plastic, electronic components and other materials, $0 it should be kept away from heat sources 8s much as possible to prevent sunlight, deformation and even damage due to high temperature.

- Environmenial requirements

  Disecard thes product al will, which may have an impact on the environment. Please recycle property in accordance with local iaws and regutations.

## Product Description

**Packing List**

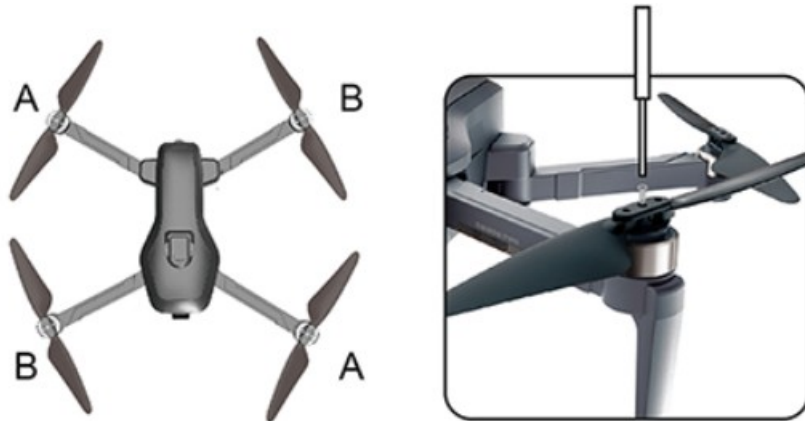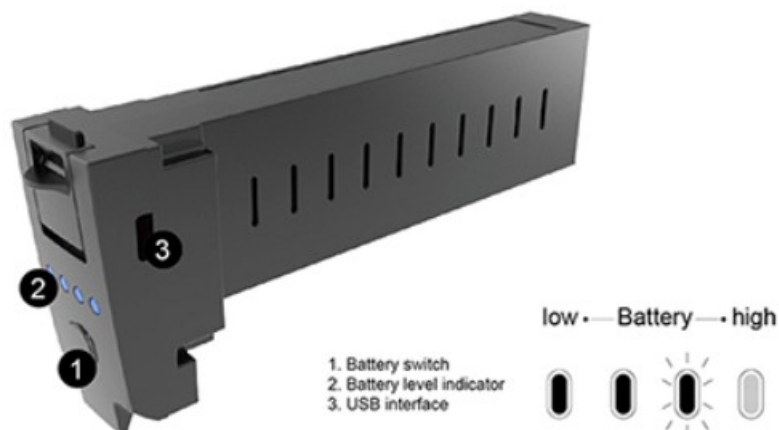| | | |
|---|---|---|
| | Drone | X1 |
| | Remote control | X 1 |
| | Obstacle avoidance equipment | X 1 |
| | Body battery | X1 |
| | USB charging cable | x1 |
| | Screwdriver | X1 |
| | Spare Propeller (2) | x2 |
| | Manual | X1 |

## Drone part name
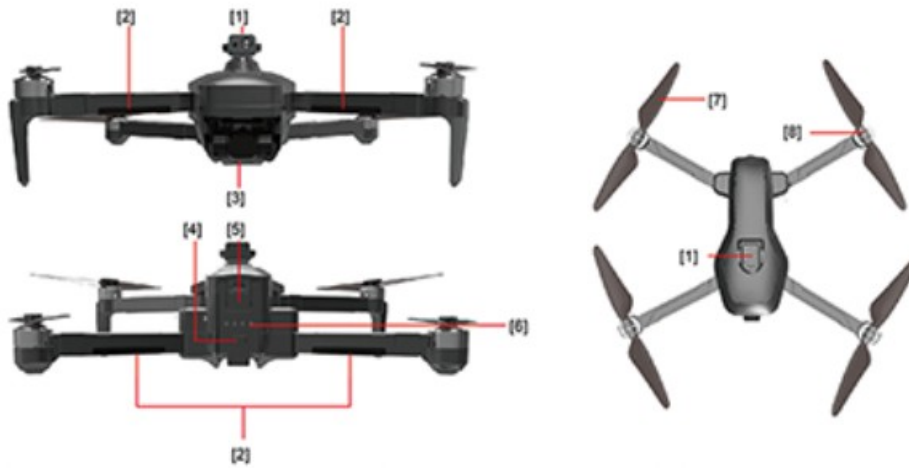
[1] Obstacle avoedance equpment (2] LED hght (3) HO camera (4) Power switch (5) Smart kthium battery
[6] Power indecator [7] Wind blade (8) Motor [9} LEO light

1. Propeller installation

   Please make sure thet all propellers are installed in the comect onentaton as shown in the figure below. Il the

   instelishon is correct, Sve aircraft 'acl not By normally. "A" prop lo "A" arm, "8" prop to "B" arm.



2. Aircraft lithum battery



1. Battery switch
2. Battery level indicator
3. USB interface

low •—— Battery ——• high

   Press and hold the power bution for 3 seconds to turn on, and then press and hold the power bution for 3

   seconds to tun off.

   -Once the battery is in a low power stale. and there is I light left in the battery indicator. pease charge the

   battery immediately to avoid unnecessary stress of the lithium cells.

**Battery installation**

Press the battery button down, and then push the battery into the drone battery herder After the instalation rs complete, the battery clip will pop up and check to ensure that the battery is in place.

⚠️Tip: It the battery is not instag"ied I-1 property. it rs likely to cause an interrupbon of power iwhich will result In a crash.
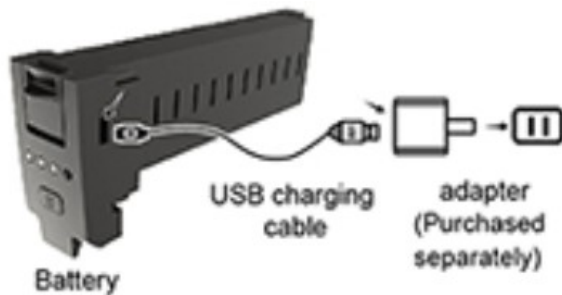
**Battery removal**
Push the latch down then Pull the battery backwards to remove it Mae sure to handle battery and drone in a DRY environment

**Drone battery charging**

⚠️Whne charging the rechargeable battery. keep out of reach of children Always use wtth adult supervision It must be kept away from flammable materials during charging. Charge batteries on safe place.

- Do not short circuit or squeeze the battery to avail explosion.
- The power supply terminals should not be taken out of the model, and the termsnals should not be short-orcuited: do not short-caw& disassemble or throw the battery into fire: do not place the battery in high temperature areas (such as in a fire or neat an electric heating device)
- Only use the provided charging device' Regularly check the Chargers wires. plugs. shells and other parts lOr! damage If you find any damage. stop using it, fix or replace.
- The charger is not a toy, the charger can only be used indoors
- The battery must be charged and stored after the flight U not m use. it is recommended to charge the battery at least once every 3 months to avoid over-discharging the battery and permanently damaging the battery
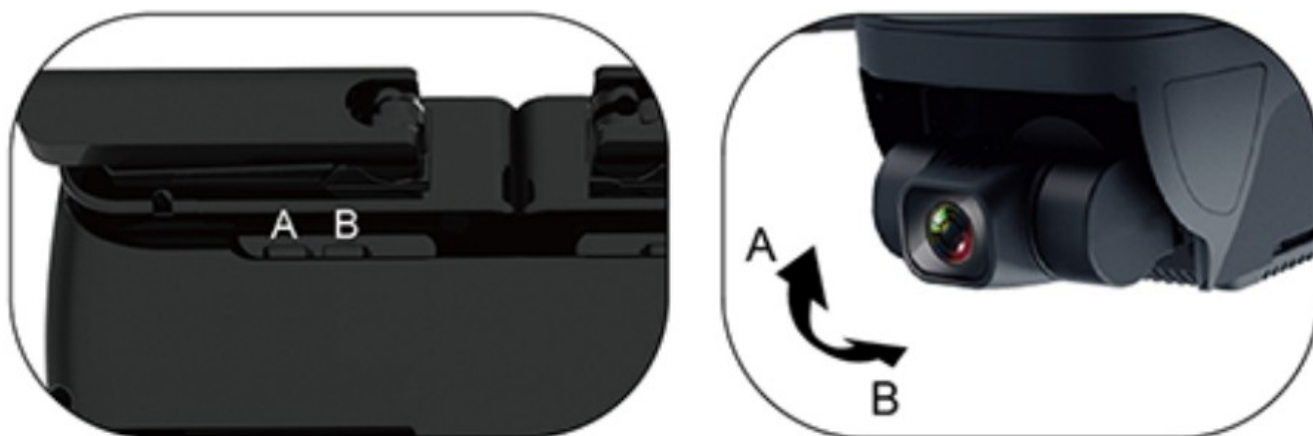
⚠ Reminder: The camera needs to be used with the mobile app. For download and operaton. please refer to the appbcabon secton of tus manual.

**PTZ camera control**

When using the PTZ bution on the remote, you can adjust the shooting angle of Se PTZ camera to 110 ° to obtain betier Serial photography.

When the left button is pressed. the camera is adjusted in the direction of A; when the right bution is pressed, the camera is adjusted in fre chrection of B.

**Remote control part names**

[12] Camera up
[13] Camera down

1. Remote control power switch

2. Acceterator keystong press lo cahbrate the gyroscope

3. Return home

4. LCO daplay

5. Vedeo button

6. Camera buttontong press to correct geomagnetism

7. Ascend, descend, tum left, turn right

8. One-key take-oflione-key descent

9. GPS swach

   (the default GPS mode 1s tumed on, the GPS needs to be turned off before the opucal fiow mode takes off)

10. Headless mode

11. Fly nght and left, forward and backward

## LCD display
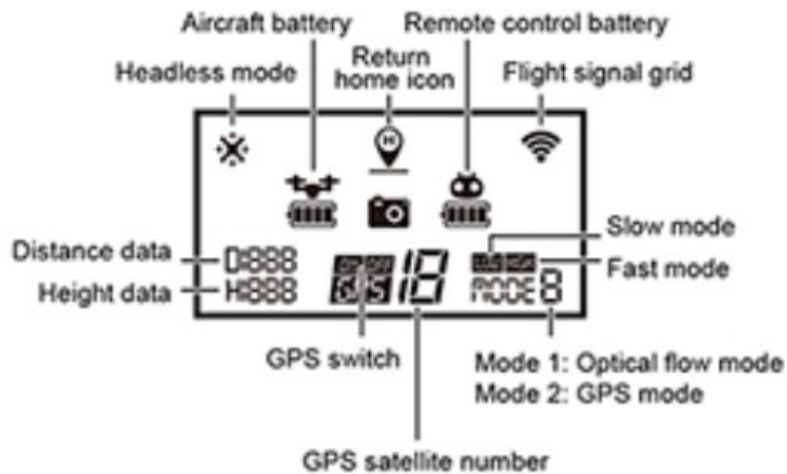


## Remote control battery charging



## Pre-flight inspection

1. Are the battery levels of the remote control and drone sufficient/

2. Make sure propellers are property instated
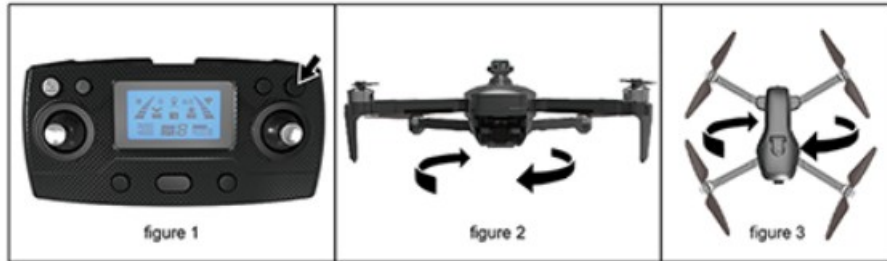
3. Check the motors properly pnme bane take oft.

## Drone pairing

The remote control is turned on and the indeator light flashes. Press and hold the drone battery .etch, the battery indicator lights up from left to right, the drone light flashes, the remote control Indicator light changes from flashing to long light, and the code is successfully matched

**Geomagnetic correction**



Place the drone on the fiat surtace, then press and hold tre button mn the upper nght for S seconds to perform Qeomagnetc correcton (figure 1).
The lghts on the drone will begin to flash rapidly, Pick up the drone and rotate ¢ clockwise while holdsng it honzontally (figure 2). A beep sound will nchcaie successful honzontal cabbraton.
Now position the drone verbcally wih the carnera powmtng down, Rotate the drone verbcalty til you hear another beep (figure 3). The drone bghts will fash slowty inicating successtul cahbratbon!
Tips Please make sure that the take off enszonment open. and the satelite signals greater than 7 stars before take off

- Do not pectorm cahbeaton wn areas with strong magnetc fields. such 43 magnebc depowts. parking lots.

  constructon areas with underground steel bars, etc

- Do not carry ferromagnet matenals wth you dunng catbraton, such as heys and motde phones

- Do not cabbrate near large preces of metal

**Drone gyroscope and gimbal level correction**



Place the drone sidl on a honzontal surface, and press and hold the remote control for § seconds ull 4 beeps. As shown in the figure Orone bghts chagne from fast flashung to slow flashing.

**Connect with APP (mobile phone needs to support 5G-WiFi signal function)**

1.  Scan the OR code to download and install the app, supports FOS and Android.

2. With the drone powered on, go to your device's settings and WIF! connections. Find the drones network name

   and connect. It does not requre & password.

**Note** Make sure the the remote control 1s turned off It takes around 5 10 seconds for the app to be able to connect to the drone



## Mode switch



Mode 1: The optcal flow mode 1s sustable for open indoor spaces. Afier the drone and remote control are connected, and the geomagnetsm and Grtoscope are corrected, the deipiay on the remote conirel changes from Mode 0 to Mode 1. Al thus time, the drone will automatically perform GPS satelite posdiomng. To get to GPS mode (mode 2). press the Dutton shown the figure below for 5 seconds. Remember, the drone wil not be able to take off without the 8 needed tatelives.

(Note: Mode 1 opbcal flow mode does not have GPS funcbons such as low-power retum, one-chck retum, etc. Please pay atienbdon to the fight stance and albtude when using)

Mode 2. GPS / Opbcal Flow Qual mode ts sustable for cukioor open areas without signal interference. After the drone and femote control are linked. The geomagneds and gyroscopes are corrected, the daplay on the remote contral changes.

from Mode 0 to Mode 1, at this hme the drone GPS satelite search and positon automatically (Drone search should be placed in an apen area when searching for sakethies., and there should be no obsirucbons such as hugh-nise bulidings or Cars, high-voRage power ines, of the drone wil not be able to complete GPS satelite search and posiborung). Once the manumum of 8 satolites are connected, the controdier will make @ sound indicating the posisoning has been completed and the display frequency of the remote control changes from Mode 1 to Mode 2 to inchcate that the possboning ts successiul, and the takeoff can be performed

Note: If the GPS mode 1s not successfully completed. the drone sulomebcally enables the protecton system and cannot lake off.

## LOW gear and HIGH gear modes

Note: Sy default, the drone 1s nn LOW speed mode whuch has obstacle svoxlance funchons ACTIVE. If you switch to HIGH speed gear mode, the lorward obstacle avoidance function of the drone will automabcally lun OFF. The drone wil no longer avoid obstacies. the user must be aware of thew drone's surroundings to svoid crashing

Short press this key to switch speed

LOW mode has obstacle avoidance function

Short press this key to switch speed

The obstacle avoidance function in HIGH high speed mode automatically fails

**Drone unlock**



figure 1

figure 2

To unlock/prime the drone, move the joysticks as shown in the figures.

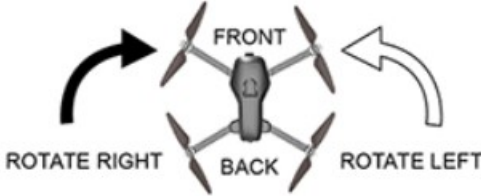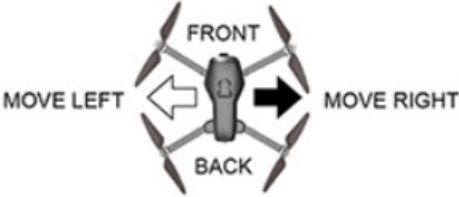To un3ocklonmo the drone. move Ihe pysbckS as shown in the !gums

**Basic flight**

Basic flight steps

1. Syne the remote control with the drone, make sure drone completes the mbakzaton
2. Geomagneve calbravon (Cakbration rs not needed ( operating in the sarne areatocation)
3. After the drone gyroscope is detected, unlock the drone
4. Push tho throttle stick up, the drone wil (ake off, and the left / nght joysbck will control he attitude of the drone
5. Tum off the power of the drone first. and then tum off the power switch of the remote control.

**Controlling the drone**

| Remote Control | Drone |
|---|---|
| | UP / DOWN |
| | ROTATE RIGHT — FRONT — ROTATE LEFT / BACK |
| | MOVE BACK / MOVE FORWARD |
| | FRONT — MOVE LEFT — MOVE RIGHT / BACK |

**Flight mode**
One-click takeoff / landing

- After the drone 1s unlocked. press the one-button take-off bution Dredly, and the drone wall automabtcally take off to hover at a height of about 1.5 meters
- When the drone is in fight. press the one-button take-off bution briefly, and the drone will aulomatcally land on the ground.

**Headless mode**

During faght press the headiess mode bution, the remote control will teixdly beep three brnes.

When the drone is unlocked. the direction pointed by the nose is directly in front of the fight. During the fight, folate the drone in the desired chrecton to airect the fight.

Home Return (Not avadable in Mode 1 optical flow mode)

The drone has a home functon. Il the home pom is successfully recorded before takeoff, fro communicaton sagnal between the remote Control and the drone 1s lost or the home key 1s pressed. the drone will automatically retum to the home point and land to prevent accidents.

There are three different ways for drones to retum home:

1. One-chek retum

2. Segnal retum

3. Low battery retum
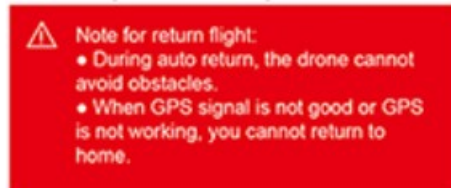


Home Point: When taking off or during fight. when GPS rececves 7 of more satedbles for the first ime, « will record the current posivon of the drone as the home pout.

**One- click return**



When the GPS signal is good (the number of sateiites 1s greaier than 7), you can start the drone home by pressing the one-way home bution on the remote control. The home process ss the same as the uncontrolled home. Use the sick fo control the drone to avord

obstacies. Press the home bution again to ext home, and the user Can regain control.

**Signal return**

The GPS sugnal ts good (the number of GPS satelites 1s greater than 7), the compass 1s woriong normally, and afer the drone successfully records the home pont, if Gye remote control szgnal and the APP signal are off for more than 6 seconds, the fhoht control system will take over the control of the drone Control the drone to fly beck to the signal and stop.

**Low battery return**

After the drone 1s low-vollage, the indicator bolt will flash slowly. Al this bme, the drone will aulomabcally retum to the Vicinity of the takeoff powt witun 60 fi (After the low-power drone retums to the vicinity of the take-off pomt, the height and distance of the drone wil 3150 be tented to GON)

⚠️Reminder The drone ts in the low-power retum mode. and the remote control cannot cancel the return mode

**Photo** / **Video**

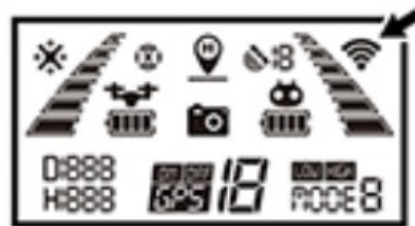Press the remote control * 📷 * button to take a pecture .

the remote control LED screen display icon * 📷 * will fash  Press the 📹 button to record, the remote control

LEDscreen display icon 📹 Or will slow flash

Press the " 📹 " button to exit the recording .

## Received signal strength indication

The icon "°⬤ılıll" is the received signal strength indication. The more the number of segments is displayed, the stronger the signal is. and less segments the weaker the signal is.



## Product parts

Basic parts

| | | | | |
|---|---|---|---|---|
|  |  |  |  |  |
| Upper shell | Lower shell | panel | Garnish | A/B fan blade |
|  |  |  |  |  |
| Front rocker A | Front rocker B | Rear swing arm A | Rear swing arm B | camera |
|  |  |  |  |  |
| Silicone pad | battery | Geomagnetic module | GPS module | Motherboard |
|  |  |  | | |
| Charging Cable | remote control | Obstacle avoidance sensor | | |

**Don't panic if you encounter problems**

| NO. | problem | Solution |
|---|---|---|
| 1 | Mode 1 The drone motor can rotate, the a (craft cannot take off, the lights Rash go/pc:My and slowly | If the GPS mode ts turned off, the drone wit enable is automatic take off protection. If in Largo indoor area enable optical mode. hold . move Joysticks together, hold up on left stick. |
| 2 | After the GPS function Is turned off an Mode 1, the drone motor can rotate and the drone cannot take off The lights flash quickly and slowly | Recalibrate the gebnagniebsm after restart_ If in large indoor area enable apical mode hold. , move roysbcks together . held up on lee stick |
| 3 | After lake-off in Mode 1, the drone keeps blinking and cannot hover | The ground is too smooth and the environment Is too Clark which win cause the optical flow lens to be unstable Please get good lighting and fly in a place where ground has less reflections |
| 4 | After taking off in Mode 2. the drone keeps blinktng and cannot hover. It floats around The remote control always switches between Mode 1 and Mode 2 | GPS postponing is not good. too much interference, please get in an open, unobstructed area, with no high voltage wires nearby |
| 5 | Mode 2 The drone motor can rotate. the secret cannot take off, the Ights Nish qtaddy and slowly | Retaltrato the geomagnetTsm after restart |
| 6 | Drone shakeS a lot | The blade is deformed or damaged. it needs to be replaced |
| 7 | When the picture is cited during aerial photography | Land the drone to a flat ground and perform the gmbal level correction again |
| 8 | The Obstacle avoidance device can rotate normally dunng the fight, but there is no obstacle avoidance function | Land the drone to a level ground, turn off the power and restart the drone Make sure to avad touching the detector at any pont besides removal and instant |
| 9 | During the fight, the obstacle avoidance device cannot rotate normally and has no obstacle avoidance funcbon | Land the drone. turn Off the power. pull Out the obstacle aeo glef. reinstall the obstacle evader, restart the drone |

## Software instruction manual

Software installation instructions

1. Install the mobile client Please scan the OR code below to download the mobile app to your oxresponding operating system.

2. Connect Drone WiFi Power on the drone. 2 Find the drone hotspot n your device settings > WAS Connections
   3 Click the hotspot network (no password). and the phone will connect automatically

   For users truing X7 Ranger. please click %%IAN in the settings of the motxle phone. as shohn on the figure
   beton,, sad the *XL.PRO-5G." (serat number}' network and connect then open the mototte phone APP to use
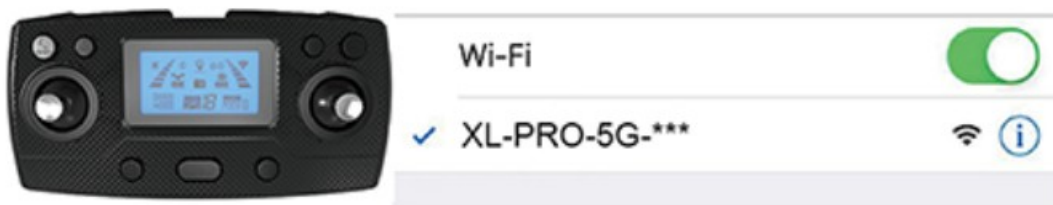


3. Recommended model configuration

(1) ios

| Configuration | Recommended | Optimal (Support 2 k) |
|---|---|---|
| Product model | iPhone 6 and above | iPhone 6 and above |
| System version | iOS 8.0 and above | iOS 9.0 and above |

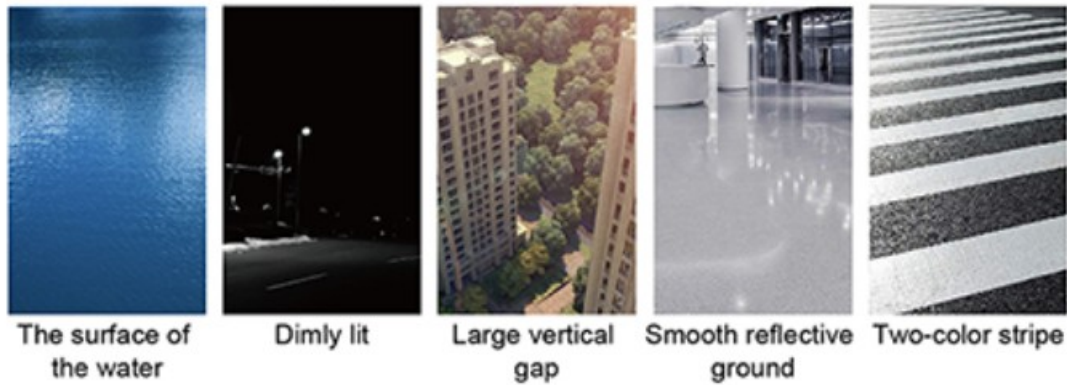(2) Android

| Configuration | Recommended | Optimal(Support 2 k) |
|---|---|---|
| The CPU model | Snapdragon 630 and above<br>Samsung Exynos 7420 and above<br>Hair division Hello X25 and above<br>Kirin 950 and above | Snapdragon 835 and above<br>Samsung Exynos 8895 and above<br>Hair division Helio X30 and above<br>Kirin 970 and above |
| System vers:on | Android 5_0 and above | Android 8.0 and above |
| Memory size | 3G and above | 6G and above |
| CPU usage | Occupancy rate of 25% and below | Occupancy rate of 10% and below |

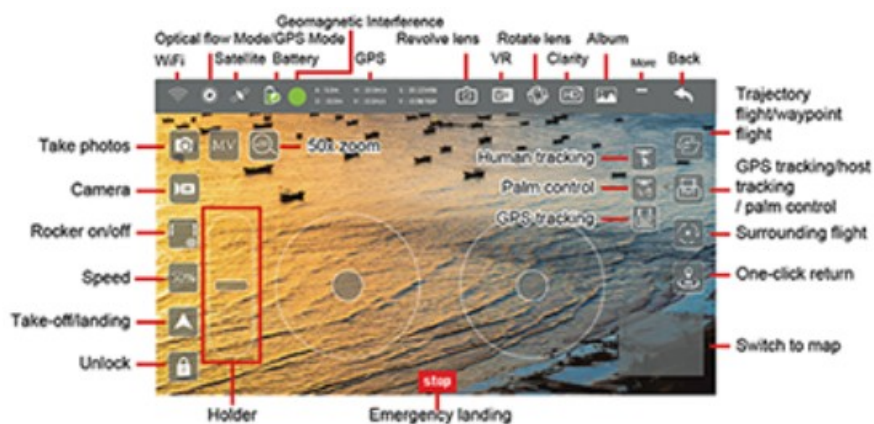Clean up the background program, which can efectnely reduce the CPU usage
APP function introduction: vinen ine drone is inthe folloeing em. conmert the fred hover effect 5 not ipee

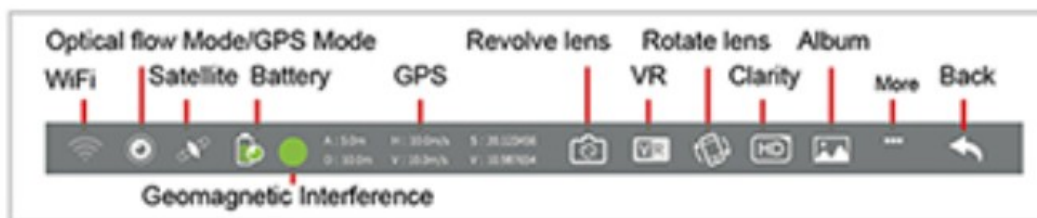**Note:** A drone, at the same bme. only one modde app is allowed to connect!

**Note:** When the drone 1 in the following environment, the fixed flow hovenng effect of the lower lens 1s not good, which will make it ddoumt for the drone to fly smoothly and the camera will shake.



| The surface of the water | Dimly lit | Large vertical gap | Smooth reflective ground | Two-color stripe |

## Introduction to the Operation Intrface



### 1.2.1 Function Description



WiFi: Orsplay chart sagnal strength,

Satelite signals: Represents current faght mode and number of sateltes: Scinbilation means that the current mode is the Optical Bow point, without fhe function of returning, following, arching and pointing. Constant bght indicates current GPS

mode. Battery: The bettery status of the aircrat (1) 2-4 gnd mnchestes the normal power, which can operate the retuming, following, arching and poneng fight functions normally in the GPS mode.

(2) 1 ond (fheker state) represents the current low power stale, and the aucraf wil perform the automade course reversal funceon. There 13 no foBowsng, caching or posting fight function in low power state.

GPS mformation: Ospleys the heghl, distance and corresponding longitude and labtude of the current aurcraft from the reanty pont Geomagnetic uterterence:; Green indicates normal; yellow indicates geomagnedc interference: orange indicates strong

geomagnetic iference: red inckcates strong geomagnetic interference. When the orange or red :00n 1s displayed, leave the current mlerference possbon and recakbrate.

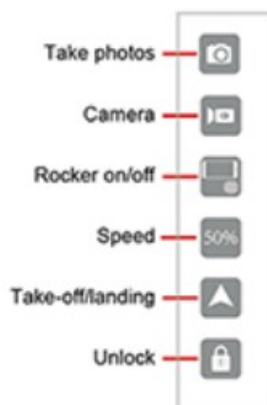Revolve lens : Can switch between front lens and down lens.

VR model: Cack nto VR mode.

Rotate lens: Record the relevant parameters of each fight.

Ctarty: Clock to switch the video defirubon

Album: Photos and wdeos can be vewed.

**1.2.2 Function Description**



Take photos: Click the button to take photos according to the current lens (front lens or down lens).

Camera: Click the button to shoot videos according to the current lens (front lens or down lens).

Rocker on/off: Click to switch to mobile phone control or remote control.

Speed : Displays the current state of fast and slow. Click to switch to fast or slow in mobile control mode.

Unlock: After unlocking, one key can be used to take off or drop.

Take-offflanding: After the calibration is completed, place the aircraft horizontally and click the unlock button to start the flight operation.

**1.2.3Function Description**



Wayposy fight: In GPS mode, the aircraft vill fy according to the location selected on the map.

Trajectory fight: in optical flow mode, the aircraft will fly according to the selected postion.

Human tracking: Carck the bution in the optical flow mode, the aircraft will follow the target person font. (See the next page for detads)
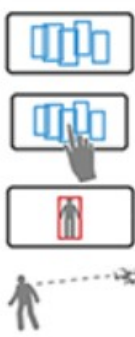
Palm control: Click the button in the optical fow mode, the aircral will follow the paim up and down. (See the next page for detads)

GPS tracking: In GPS mode. cick this bullion and the aircra® will follow the flight.

Surrounding fight In GPS mode, the aircraft nose wall ly around clockwise or counterclockwise with the current position of the aircraft as the center. During the SuTToUuNnd process, you can control the rise. tall, forward, and reverse to adjust. One-ctick retum: in GPS mode, click to achieve one-chck return.

**Other Instructions**

| Human Tracking | Palm Control |
|---|---|
| (1) Blue candidate boxes for the target person appears on the screen. | (1) facing the camera of the aircraft, lift it horizontally with one hand; |
| (2) On the screen, tap your finger to select the target character. | (2) when the palm is framed by the red square on the App, gently move the palm; |
| (3) After the target person is locked, the blue box will turn red.  Make sure the red box target character is in the middle of the screen. | (3) at this point, the aircraft will follow the palm upward and downward flight; |
| (4) The tracking flight starts when the aircraft is about 2m away from the target figure.If the target character is lost, you need to click the target character again. | For the best experience, ensure the distance of the palm and the camera is of 1 meter. |
| When the red frame is more than 80% of the human area, the best effect can be achieved. | |

## 12.4 Function Description
Holder

After the acral takes off. the holder will be displayed on the lef sude of the screen. Al this time. if you move the shder upward, the front lens of the asrcraft wil move upward Dy & certamn angie: if you move the sider down, the front lens of the ascraf wil move downward by a certain angie.

**Rocker**

The left rocker can control the upward movement, downward movement, lef and night tun of the aircrafi, and the right rocker can control the forward, backward movement of the aircraft, and it can also move the awcraft towards the left and right

### share

After clicking [image] in the upper left corner of the screen on the control page, enter the album interface. When you click to view a photo or video, users can share photos or videos to major social platforms

through [image] in the top right corner.

## 13 Gesture Recognition
Facing the front lens of the camera, the following gestures can be tnggered fo ingger the automatic camera or camera functhon of the awcraft:

Take Photos by Yeah Gestures About 6 feet in front of the camere of the aircraft, hold the Yeah gesture with one hand flat. After the aircraft successfully recogmzed the gesture, a count down of 3 seconds will start before & takes the photo.

Shoot Videos by Box Gestures About 6 feet in front of the camera of the aurcraft, put your hands on the position of the face jaw to make a square video gesture. After the sarcraft has successfully recognized the gesture, the video wil start. When the gesture 15 recognized again, end the recording (the wmne dilerence between two recognition should be more than 3 seconds).

Shoot Videos by Paim Gestures About 6 feet in front of the aircraft lens, with ive fingers and one hand flat; After the aarcraft has successfully recognized the gesture, the video will start. When the gesture is recognized agasn, end the recording (lhe time difference between two recognibon should be more than 3 seconds):
**\* Special Instructions**

**To ensure that the lens gets a higher recognition rate :**

1. Please am the tens face to face:
2. Please fy in an environment with good bghting:
3. Please conduct gesture recognition operabon at a destance of aboul 2m from the lens.

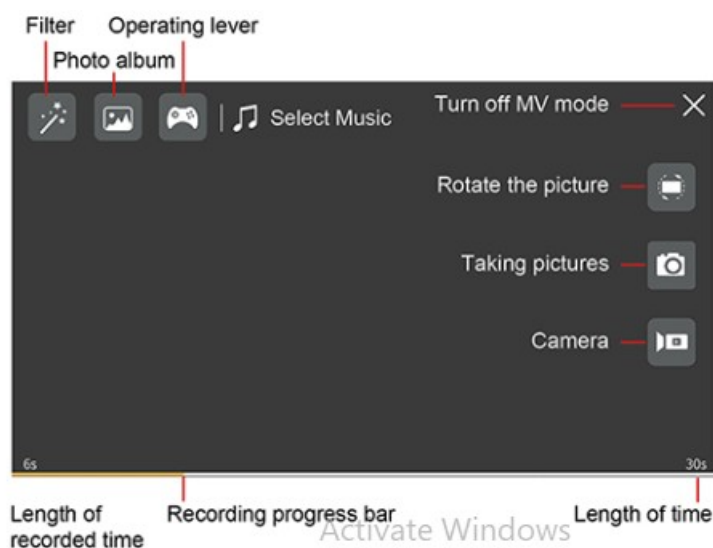In the following cases, 4 will result in a low lens recognaton rate :

1. Weak bght or backiaght:
2. The WiFi signal is weak or the signal is disturbed.

## MV Interface

After cbCking the MV button in the upper left corner of the screen on the control page. enter the MV net ace In the MV interface. you can shoot music videos
Rotating picture
Click this button to 'nab.* the Rotate Screen feature At this pant, the finger swipes on the screen to rotate the linage. if the finger doubt•cticks anywhere on the screen, the image can be magnified in an instant (this feature also applies when recording video)



**NOT A FAN OF MANUALS? WATCH THESE!**
**QUICK START GUIDE: FLIGHT FEATURES:**



| https://qrco.de/bcHm62 | https://qrco.de/bc68PQ |

HAVE QUESTIONS? CLICK THE CHAT BUBBLE ON **WWW.EXODRONES.COM**
**NOTE:** This equipment has been tested and found to comply with the knits 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 instated 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 follovinng 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

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

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.

**FCC RF Exposure Warning Statements:** This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment shat be installed and operated with minimum distance 20cm between the radiator body.

The frequency stability of all transmission frequencies of U-NII.1 meets the 47 CFR FCC Part15.407(g) requirements, and the manufacturer states that their transmissions remain within the U4111.1 band.

## Documents / Resources

| | |
|---|---|
|  | **EXO x7 Range Plus GPS Smart Drone** [pdf] Instruction Manual<br>2BBX7APLUS, 2BBX7APLUS aplus, x7 Range Plus GPS Smart Drone, Range Plus GPS Smart Drone, GPS Smart Drone, Smart Drone, Drone |