

ITEM NO.:H109S X4 PRO WITH H7000 TRANSMITTER



THE HUBSAN X4 PRO

Hubsan X4 PRO

V1.1 2017.04

Read the instruction manual carefully!

IMPORTANT SAFETY NOTES

OPERATION:

Be extremely careful and responsible when using the X4 Pro. Small electronic components can be damaged by crashes or by dropping the X4 Pro in water. To avoid further damage to the unit, people, or property, do not use X4 Pro quads with broken or damaged components.

Flight:

- Fly the X4 Pro responsibly to protect the safety of yourself and others.
- Do not fly the X4 Pro in crowded places. It needs plenty of space to operate.
- Do not fly in bad weather.
- Never try to catch the X4 Pro while it is in flight.
- This model is intended for experienced pilots age 14+.
- Power off the X4 Pro after every flight or the propellers may still rotate and cause injury.
- Always disconnect the battery after every flight to avoid injury from accidentally powering up.
- High speed propellers are very dangerous. Keep your body clear of propeller arcs at all times. The flight system will start after power on regardless of transmitter signal.

SYMBOL EXPLANATION





No operating /!\ Important Notice



Explanation, reference

USAGE ADVICE

Hubsan provides you with three files for your X4 Pro:

- 1. "Disclaimer"
- 2 "Hubsan X4 Pro Instruction Manual"
- 3. "Ground Station Instruction Manual"

View the instruction videos and Disclaimer first, then read the manuals.

CAUTION

RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.

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GENERAL INTRODUCTION

The Hubsan X4 Pro is a high-tech, mid-size quadcopter which is perfect for aerial photography. It is equipped with a stable and accurate 3-axis gimbal, 1080P HD aerial photography camera, and an advanced flight control system. The Android transmitter is capable of long distance camera control, video transmission, ground station automatic flight, FPV flight, social network sharing and even more functions. The Hubsan X4 Pro will help you shoot stable, professional-grade HD videos and pictures.

FPV: First Person View provides a one of a kind flying experience to X4 Pro users. It allows you to see every moment of the flight from the quad's view.

1. ACCESSORIES INCLUDED

Check all the accessories in the package before use.

S/N	Part Name	Photos	Q'ty	Remarks
1	The X4 Pro		1PC	Equipped with smart flight controller,GPS and compass
2	Propellers		4PCS	Propeller A 2pcs, Propeller B 2pcs
3	3-axis stablized gimbal		1PC	3-axis stablized gimbal
4	Propeller removal wrench		1PC	For removing propellers
5	Transmitter		1PC	H7000 Smart Transmitter, equipped with a 7.4V 5400mAh rechargeable LiPo battery
6	LiPo battery for X4 Pro	Mapao re Garage de Caracter de Tana	1PC	Insert in the X4 Pro
7	LiPo Charger Adapter		1PC	110-240V

8	LiPo Balance charger		1PC	Use to recharge the LiPo battery
9	Propeller guard		4PCS	Ensures the safety of the X4 Pro
10	Micro-USB cable		1PC	To read the camera data
11	User Manuals		3PCS	Disclaimer Hubsan X4 Pro Instruction Manual
12	1080P camera	HUBSTON O	1 PC	HD camera module
13	Transmitter Antenna		1 PC	5.8 GHz Transmitter Antenna

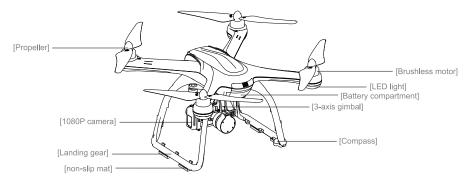
2. INTRODUCTION

The Hubsan X4 Pro system consists of the quadcopter, camera, gimbal, propeller, guard, power system, flight control system, and radio transmission system.

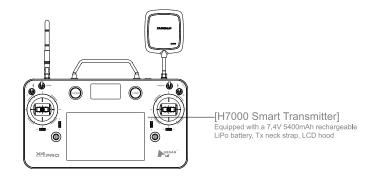
Transmitter equipment: dual data transmission, map and track display, waypoints set/auto-flight, FPV transmission mode, Video and picture shooting modes.

X4 Pro equipment: 3-axis gimbal, camera, power system (brushless motors and propellers), propeller guard.

X4 Pro working Mode: Altitude Hold Mode, Position-hold Mode, Waypoints Mode, RTH Mode, Headless Mode



Hubsan Drones with GPS functions support GPS ,GALILEO, GLONASS total 3 types of GNSS work simultaneously.



PREPARATIONS FOR USE

Thanks for buying HUBSAN products!

1 PREPARE THE LIPO BATTERY

Make sure the following equipment is fully charged before flight.

EQUIPMENT	SUPPLIED POWER
Transmitter	7.4V 5400mAh rechargeable LiPo battery
Camera	3.7V 650mAh rechargeable LiPo battery
X4 Pro with gimbal	Both powered by 11.1V 7000mAh rechargeable LiPo battery

1.1 LIPO BATTERY IN THE X4 PRO

The X4 Pro is equipped with a 11.1V, 3 cell, 7000mAh rechargeable LiPo battery. Always charge the LiPo battery with the Hubsan charger.

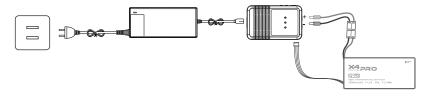
BATTERY SPECIFICATIONS

Charging temperature: 0°C~25°C Discharging temperature: - 20°C~25°C

Charging/ Discharging humidity: < 80%

1.2 CHARGING

Connect battery to balance charger and wall charger. The two LED lights will turn red when charging and turn green when charging is finished. The charging time is about 180 min.





🦃 (1) Overcharge protection

Overcharge protection prevents battery damage by automatically ending charging when the battery reaches 12.8V.

(2) Over-discharge protection

Over-discharge protection protects the battery by cutting off power when the battery reaches 8.4V.

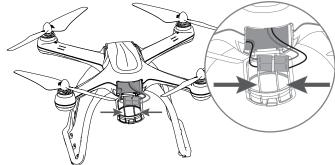
(3) Short circuit protection

Short circuit protection powers off the X4 Pro as soon as a short circuit is detected

1.3 POWER ON/ OFF THE X4 PRO LIPO BATTERY

Power on: Put the battery into the battery compartment and connect the battery plug with the correct polarity. When the X4 Pro is on, the blue LEDs on X4 Pro will blink in a rotating pattern.

Power off: Disconnect the battery connector plug to remove power from the X4 Pro. The LEDs will turn off.



1.4 CHECK THE LIPO BATTERY POWER

After the X4 Pro and the Transmitter finish pairing, the battery power will display on the tablet.

BATTERY POWER	BAT	65%	TIME	00:19
	TX	35%	DIST	0m
	RF	88%	ALT	+ 3m
	GPS	0	DIR	NE
	ALT Hold Low Battery TX		Headle	ss

Always partially charge your LiPo battery before storage.

LiPo batteries retain a charge over a long period at about a 50% or 3.5V per cell storage charge. It is not normally necessary to recharge stored LiPo batteries unless stored for periods longer than 3-6 months.

If your LiPo battery has been over-discharged, it will not be possible to recharge it again.



LiPo Battery Disposal & Recycling



Lithium-Polymer (LiPo) batteries must not be placed in with household trash. Please contact your environmental or waste agency or the supplier of your model for local regulations and the location of your nearest LiPo battery recycling center.

2 SAFETY NOTES

2.1 IMPORTANT NOTES

This X4 Pro is not a toy. Any improper use of this product will result in serious injury. Be aware of your personal safety, the safety of others and your surrounding environment. We recommend beginners learn to fly with the assistance of experienced pilots. It is your responsibility to comply with your country's remote controlled and Unmanned Aerial Vehicle flight regulations!

2.2 LIPO BATTERY SAFETY NOTES

The X4 Pro is powered by a lithium-polymer (LiPo) battery. To avoid risk of fire or damage, never recharge your battery while it is inserted in the plane. If you do not plan to fly the plane for a week or more, store the battery approximately 50% charged to maintain battery performance and life.



SAFETY ADVISORY NOTICE

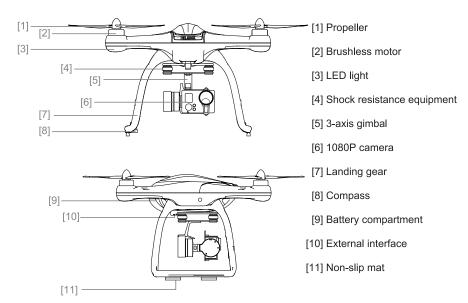
Lithium-Polymer (LiPo) Batteries

LiPo batteries are different from conventional batteries in that their chemical contents are encased in a relatively lightweight foil packaging. This has the advantage of significantly reducing their weight, but does make them more susceptible to damage if roughly or inappropriately handled. As with all batteries, there is a risk of fire or explosion if safety practices are ignored:

- ☑ Charge and store LiPo batteries in a location where a battery fire or explosion (including smoke hazard) will not endanger life or property.
- ☑ Keep LiPo batteries away from children and animals.
- Never charge the LiPo battery that has ballooned or swelled.
- ☑ Never charge the LiPo battery that has been punctured or damaged.
- ☑ After a crash, inspect the battery pack for signs of damage. Discard in accordance with your country's recycling laws.
- ☑ Never charge the LiPo battery in a moving vehicle.
- ☑ Never overcharge the LiPo battery.
- ☑ Never leave the LiPo battery unattended during recharging.
- ☑ Do not charge LiPo batteries near flammable materials or liquids.
- ☑ Ensure that charging leads are connected correctly. Reverse polarity charging can lead to battery damage, fire, or explosion.
- ☑ Have a suitable fire extinguisher (electrical type) OR a large bucket of dry sand near the charging area. Do not try to extinguish (LiPo) battery fires with water.
- Reduce risks from fire/explosion by storing and charging LiPo batteries inside a LiPo charge sack.
- Protect your LiPo battery from accidental damage during storage and transportation. (Do not put battery packs in pockets or bags where they can short circuit or can come into contact with sharp or metallic objects.)
- ☑ If your LiPo battery is subjected to a shock (such as a crash), place it in a metal container and observe for signs of swelling or heating for at least 30 minutes.
- Do not attempt to disassemble, modify, or repair the LiPo battery.

3 PREPARE THE X4 PRO

3.1 INTRODUCTION TO THE X4 PRO



3.1.1 FLIGHT CONTROL SYSTEM INTRODUCTION

The Hubsan X4 Pro is easy to operate and very stable. It is capable of all basic flight actions and also includes control loss failsafes, a power alarm, and IOC functions.

	<u> </u>
Modules on flight control system	Function
Main Control Module	CPU of the flight control system, connects to all the modules for central control processes.
IMU Module	Includes inertial sensor, stabilizes flight; includes a barometer to measure the flight altitude.
GPS & Compass Module	Position hold and Navigation.
LED indicating lights	Indicating the flight control system's condition.

Environmentally friendly disposal



Old electrical appliances must not be disposed of together with the residual waste, but have to be disposed of separately. The disposal at the communal collecting point via private persons is for free. The owner of old appliances is responsible to bring the appliances to thise collecting points or to similar collection points. With this little personal effort, you contribute to recycle valuable raw materials and the treatment of toxic substances.

3.2 PREPARE THE CAMERA

Insert battery into the camera and attach the camera onto the gimbal. Power on the camera. You can press the buttons on the camera to shoot pictures and videos. Users can also use the H7000 transmitter to record and play back the videos.

Camera specifications					
Recording resolution	1920*1080 Full HD	Battery	3.7V 650mAh		
Recording frame rate	30FPS	Working temperature	10∼+70℃		
Video format	MOV	Working humidity	30%~80%		
Image Sensor	3 million pixel MJPG	Working power	1.9W		
Image pixel	4032*3024 pixel	Standby power	1.33W		
Lens format	1/3"	Storage temperature	- 40~+125°C		
Lens FOV	170 ° (MAX)	Storage humidity	30%-90%		

3.2.1 CAMERA BUTTONS INSTRUCTION

Power on/off: Press the power button(<2sec), power on; Hold down the power button(≥2sec), power off.

Video shooting: Press the video button, start recording; Hold down the video button, stop recording. [Indicating light]

NOTE: You can shoot pictures or videos through the H7000 touch screen. For more details, please refer to Ground Station Instruction Manual.



[Microphone]

3 2 2 MICRO-SD CARD

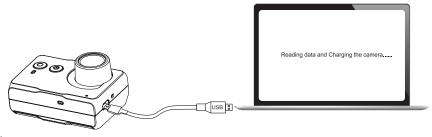
Only insert or remove the micro memory card when the power is off. Picture nine shows where to insert the memory card.

A micro memory card is not included in the Hubsan X4 Pro package. Users must supply their own class 4-6, 4GB-32GB memory card and format it before use.

- Do not insert/remove the Micro-SD card when the camera is powered on. Doing so can corrupt the SD card and files.
 - Format your micro memory card by pressing the recording button for 5 seconds, or format it for 32KB size allocation unit on a computer before installing it in the camera.



With the camera on, use the included Micro-USB cord to connect to a computer and copy your pictures and videos over to the hard drive.





- Λ ullet Files can only be transferred while the camera is on. The camera will only recharge from the computer when the camera is off. The camera cannot take additional photos or video while connected to the PC.
 - Remove the USB connector from the camera while shooting, it will still be shooting. The camera will automatically power off when USB is disconnected from computer.
 - The camera will recharge while connected to the X4 Pro or the PC. It recharges at about 500mAh and has a 3.7V/670mAh battery.

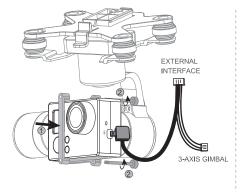
3.2.4 CAMERA LIGHTS

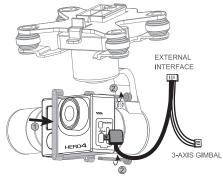
Camera LIGHT	Camera condition
Blue light turns on	Standby
Blue light turns on, red light blinks once every second	Recording
Blue light turns on, red light turns on	Camera module is faulty
Blue light blinks every second	Micro-SD card will be full/ no SD card/ faulty SD card
Blue light blinks quickly	Micro-SD card is full
Red light blinks quickly	Battery power is low

3 2 5 INSTALL THE CAMERA

Method: 1. Unscrew and remove the camera mount.

- 2. Put the camera on the slot (camera facing out) and reinstall the camera mount with screws
- 3. Plug the camera data wire into the USB interface. Plug the other end into the X4 Pro external interface (see more details on 3.3.1).





COMPATIBLE WITH GOPRO 3 & 4

GoPro 3 & 4 are compatible with the X4 Pro. You can install the camera according to the above method. Connect the camera to the X4 Pro with Hubsan provided USB cable. While the H7000 can control Hubsan camera to shoot pictures or videos through its touch screen, it cannot control GoPro 3 & 4 accordingly. You need press buttons on the GoPro camera to shoot pictures or videos.

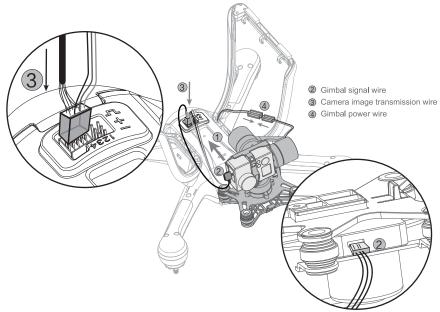
3.3 PREPARE THE 3-AXIS STABLE GIMBAL

Features of the gimbal	
Control accuracy	±0.03°
Control range	Pitch angle:+65°~~ -125° Horizontal angle:±145°
Stabilized design	±40°rotation, rotates automatically when the X4 Pro tilts to ensure stable filming

3.3.1 INSTALL THE 3-AXIS GIMBAL

- Step 1: Remove the 3 axis gimbal from its box, position it at the bottom slot with shock resistance equipment slot and slip into the bottom of the frame.
- Step 2: Insert the gimbal signal wire into the slot on the gimbal.
- Step 3: Insert the camera image transmission wire into the left slot.
- Step 4: Connect the power plug.

After installation, power on the X4 Pro and the 3 axis gimbal will power on and adjust automatically. The T1 and T2 rotary switch can also be used to control gimbal rotation.

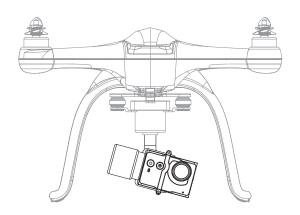


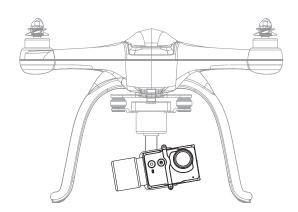
3.3.2 INSPECTING THE GIMBAL AND HANDLING ERRORS

- Abnormal gimbal alignment may be due to a crash, hit, or non-level surface. For correct gimbal alignment, place the X4 Pro on a clear, level surface before flight where there will be no obstructions to gimbal rotation when it turns on.
 - Flying in fog or clouds can cause condensation and lead to faulty gimbal alignment.
 Allow the gimbal to dry before use.

3.3.3. 3 AXIS GIMBALS CALIBRATION

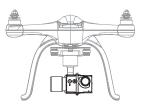
After binding the X4 Pro and the transmitter, you should check everything before flight. If the gimbal is not in a level position as shown below, you will need to do a gimbal calibration.





Method:

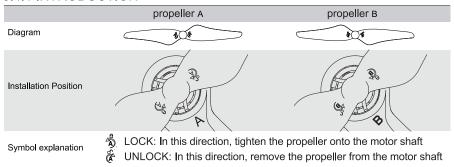
- 1. After installing the gimbal and camera, power on the X4 Pro.
- 2. Keep the X4 Pro on a level surface and do not move it.
- 3. The gimbal will enter calibration mode automatically and finish calibrating in 60 seconds. See the picture at right.



3.4 PREPARE THE PROPELLER SET

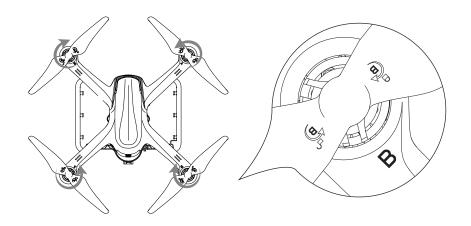
The Hubsan X4 Pro is equipped with black 9 inch propellers. Propellers are the most likely part of the quad to be damaged. Spares are available through Hubsan.

3.4.1 INTRODUCTION



3.4.2 METHOD

Take out the four propellers and install them tightly on the corresponding motor shafts.



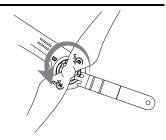
- ♠ The propellers are designed to tighten easily. Do not screw them too tight and do not use glue to attach them to posts.
 - Make sure that the A and B propellers are installed correctly. The model will not fly if propellers are improperly installed.
 - Wear gloves when installing the propellers to avoid scratches from the thin, sharp propellers.

3.4.3 REMOVE PROPELLER

Hold the motor with the Propeller removal wrench. Remove the propeller by rotating it counter-clockwise to unlock.

WARNING

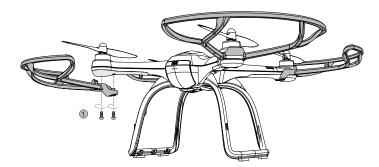
HAZARDOUS MOVING PARTS KEEP FINGERS AND OTHER BODY PARTS AWAY



- ♠ Check that the propellers are correctly installed and tight before every flight.
 - Check to see that the propellers are in good condition. Exchange broken, aging, or poor quality propellers before every flight.
 - To avoid injury, do not touch the high-speed props or motors during operation.
 - Always use Hubsan propellers to ensure best flight experience.

3.4.4 PREPARE THE PROPELLER GUARD

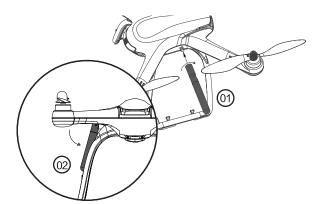
Propeller guards are optional, but we recommend that beginners use them to facilitate safe flying. Method: Fasten the screws to install the propeller guard as the below picture shows.



4 INSTALL 5.8 GHZ TRANSMISSION ANTENNA

Method: 1) Align the antenna with its connector on the X4 Pro. Turn clockwise to fasten it.

2) Make sure the antenna is straight and in line with the undercarriage.



5 INSTALL THE SUN-SHADE HOOD

The Sun-shade hood can shield sunlight effectively, so users can have a good view of the images on the tablet. It is easy to remove/install.



6 PREPARE THE SMART TRANSMITTER

H7000 is a new kind of smart FPV transmitter. It combines the transmitter with an Android tablet which provides critical information, such as displaying the X4 Pro's location and the flight course. It is equipped with 7" bright 1280 x 720 resolution IPS LCD screen and 1GHz dual-core processor.



For more information to operate the Transmitter, please refer to "Ground Station Instruction" Manual"



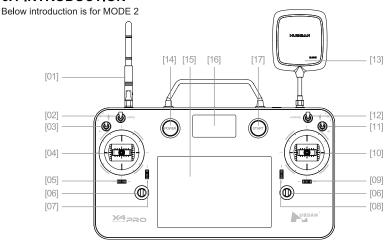
Compliance Version: H7000 meets the standard of CE and FCC (Refer to FCC ID)

Operation Mode: The Transmitter has MODE 1 and MODE 2.

MODE 1: The right stick is the Throttle stick.

MODE 2: The left stick is the Throttle stick.

6.1 INTRODUCTION



[01] 2.4GHz Antenna

The flight control signal transmitting antenna

[02] GPS Switch (Position-Hold Mode)

Push: Position-Hold Mode

Pull down: Exit the Position-hold Mode

[03] A Switch (Headless Function)

Push: Headless Function
Pull down: Normal Function

[04] Throttle/Rudder Stick

Move the stick forward or backward to make the X4 Pro ascend or descend. Move the stick left or right to rotate the X4 Pro's fuselage left or right.

[05] Rudder Trim

Rudder trim adjusts for drift of left and right rotation or yaw.

[06] Hook

For hanging the transmitter and fixing the sunshield.

[07] Throttle Trim/ Elevator Trim (Mode 1)

Throttle trim normally left at neutral. Holding down the trim for a few seconds will turn LEDs on/ off. Elevator trim adjusts for forward and backward drift

[08] Elevator Trim /Throttle Trim (Mode 1)

Elevator trim adjusts for forward and backward drift. Holding down the Throttle trim for a few seconds will turn LEDs on/ off.

[09] Aileron Trim

Aileron trim adjusts for left and right drift.

[10] Elevator/Aileron Stick

Move the stick forward or backward to make the X4 Pro fly forward or backward. Move the stick left or right to make the X4 Pro fly left or right.

[11] B Switch (Flight Course)

Push: Enter the flight course.
Pull down: Exit the flight course.

[12] HOME Switch (RTH Function)

Push: Enter the RTH function.
Pull down: Exit the RTH function.

[13] 5.8GHz Antenna

Video and image signal transmitting antenna.

[14] POWER Button

Power on/off the transmitter.

[15] Android System LCD Screen

Display waypoints, video image and so on.

[16] Transmitter OLED Screen

Display the Transmitter values.

[17] START Button

Press this button with the power button at the same time.
The transmitter will bind to the X4 Pro and relieve the binding.
If you just press this button, it will start/ stop the motors.



[18] T1 Rotary Switch

Control the gimbal mode

[19] Android System Power Button

[20] Android System USB Connector

[21] Earphone Socket

T2 Rotary Switch

Control the pitch rotation of the gimbal.

[23] Transmitter USB Connector

[24] Video Glasses Connector

6.2 THE INSTALLATION OF TRANSMITTER BATTERY

The H7000 Transmitter is equipped with a 7.4V, 2 cell. 5400mAh rechargeable Li-Po battery. Install the Li-Po battery before using.

- (1) Remove the battery cover by pressing it down where the mark indicates.
- (2) Connect the battery with the connector of the battery compartment on the right side, and put the battery into the middle of the battery compartment.
- (3) Push the battery cover up and make sure it sticks tightly in place.



- The battery connector has reverse polarity protection. If the connector will not plug into the interface, you have inserted it wrong. Do not try to force it.
 - If the battery cover does not stick tightly in place, please check to see that the battery is in the middle position.

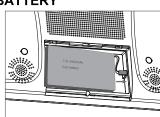


- ♠ Every time before using the battery, please make sure that it has a full charge. If the voltage is too low, the transmitter alarm will sound. Please charge immediately.
 - Please use the correct Micro-USB cable to charge.
 - If the transmitter remains idle for a week or more, please fully charge before using.

6.3 START THE TRANSMITTER.

- (1) Pull down the Switch A, GPS, Home, B into the lower position.
- (2) Hold down the POWER button for a few seconds. The transmitter will power on.
- (3) There is a tone once the transmitter is powered on, the OLED display will be on and displaying the current parameters, and the POWER button will light up.



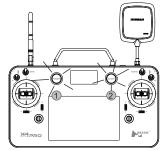


6.4 METHOD TO BIND THE TRANSMITTER AND X4 PRO

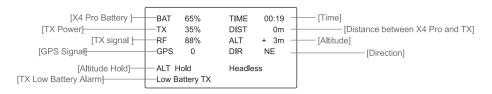
H7000 Transmitter need to bind with the X4 Pro before flight. If binding is required the OLED will show "Data Link Lost", indicating the X4 Pro and the transmitter are not binding. You will need to rebind if you change the transmitter or the X4 Pro.

METHOD OF BINDING

Press both POWER button and START button until the OLED displays "System initialize". Power on the X4 Pro when the OLED displays "Bind to Plane". The binding will be finished in 3 seconds. If binding failed, you need to repower the transmitter and the X4 Pro to try again.



6.5 INTRODUCTION OF THE LCD INTERFACE FUNCTION

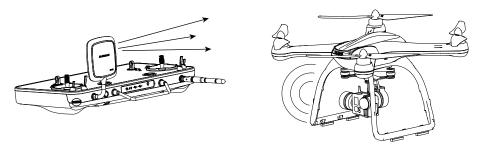


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H7000 is a new kind of smart FPV transmitter based on the Android System. For more information to operate the transmitter, please refer to "Ground Station Instruction Manual."

6.6 ANTENNA SIGNAL INSTRUCTION

The live video distance is around 1000 meters. In order to gain the furthest communication distance, make sure the transmitter's antenna is pointed vertically with no obstacles between it and the X4 Pro when in flight. Keep the antenna vertical and always point the signal surface (the logo side) towards the X4 Pro video signal antenna.



⚠ Bend the transmitter antenna vertically, and keep the signal surface pointed towards the X4 Pro video signal antenna. Ensure there are no obstacles between the two, or the X4 Pro will lose the control signal.

PREPARATION FOR FLYING

When assembly is finished, it is best to do some practice or receive training before flying the X4 Pro. Flight simulators are great practice tools and there are many experienced pilots who will be more than happy to show you how to fly. Please choose a safe, suitable environment to fly your X4 Pro.

THE FLIGHT ENVIRONMENT FOR X4 PRO

- (1) Fly the X4 Pro in a large open area. The GPS signal may become weaker and the position hold and RTH function may not be reliable when the X4 Pro flies around trees and buildings.
- (2) Do not fly the X4 Pro in bad weather such as strong wind, heavy snow, rain and foggy conditions.
- (3) When flying the X4 Pro stay away from barriers, people, power cables, trees, and other obstructions.
- (4) Do not fly the X4 Pro near radio towers.
- (5) Magnetic interference will prevent many of the X4 Pro's features from operating at the North and South Poles.
- (6) Do not fly the X4 Pro in any forbidden areas based on your country's laws and regulations.

CHECK BEFORE ELYING

- (1) Make sure the batteries for Transmitter, X4 Pro, and camera are fully charged before takeoff.
- (2) Make sure the propellers are tight, not damaged, and installed correctly.
- (3) Check that gimbal vibration is minimized and that installation is correct.
- (4) If you intend to shoot video or take photos, make sure that the memory card is installed and has sufficient memory remaining for your purposes.
- (5) Test the function of the camera and gimbal before takeoff.
- (6) Check to make sure all motors are working properly before takeoff.

1.COMPASS CALIBRATION

After the X4 Pro power is on, the blue LED of the X4 Pro will blink in a rotating pattern. Put the X4 Pro on a level surface and do not move it. The transmitter display will show "Check Compass", indicating that the X4 Pro is checking the compass. Keep the X4 Pro on a level surface and slowly rotate it until the "Check Compass" disappears.

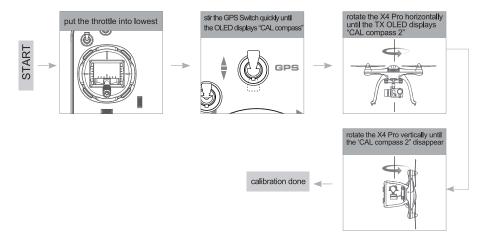
If the X4 Pro senses abnormalities in the compass sensor, it will enter compass calibration mode. The transmitter screen will show "CAL compass 1"--spin the X4 Pro horizontally until the LCD screen switches to "CAL compass 2", then vertically spin the X4 Pro until "CAL compass 2" disappears. The compass will now be properly calibrated.

You can also follow the below method to calibrate the compass using GPS Switch.

- O onot calibrate the compass in areas of a strong magnetic field.
 - Do not have keys, magnets, or mobile phones on you while calibrating the compass.
 - Avoid large masses of metal while calibrating the compass.

1.1 CALIBRATION

Method of calibration: Hold the Throttle Stick fully down, quickly move the GPS Switch until the OLED shows " CAL compass 1", levelly spin the X4 Pro until the OLED shows " CAL compass 2", then vertically spin the X4 Pro until the " CAL compass 2" disappears, indicating a successful calibration.



1.2 CHECK GPS CONDITION

Fly the X4 Pro after the GPS value changes to 6 or above for proper position hold and RTH function.

2. START/ STOP THE MOTORS

Start the motors

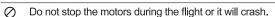
Method 1: Pull the two sticks as the picture shows. Release them after the motors start.

Method 2: Press the START button for one second. The OLED display will indicate the status of the X4 Pro.

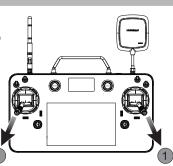
Stop the motors

Method 1: Pull the two sticks again as in the picture. Release them after the motors stop.

Method 2: Press the START button for one second. The motors will stop.



₩ Move the sticks as neatly as you can. Release the sticks after the motors start or stop.

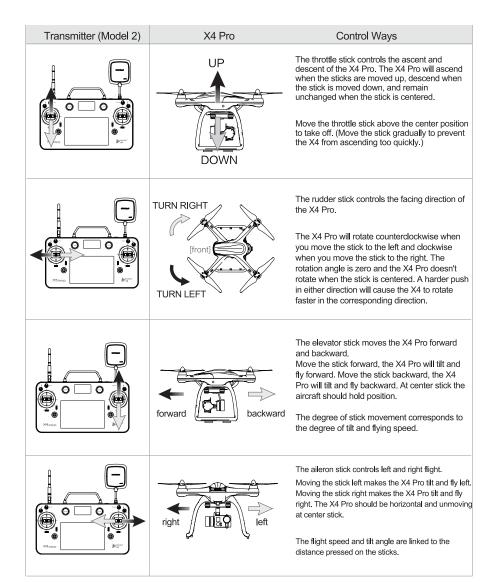


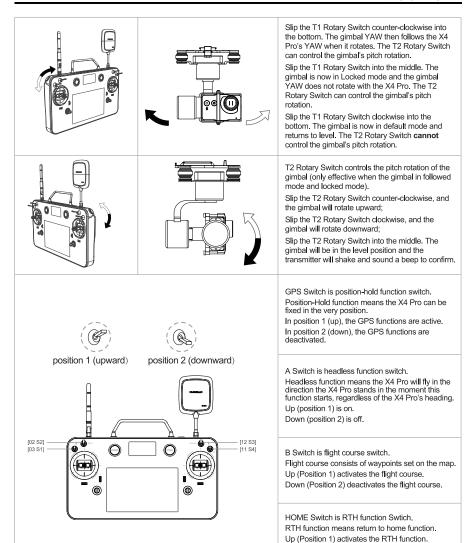
3 BASIC FLIGHT

The operation mode for the transmitter is Mode 1 or Mode 2. The manual will use Mode 2 as an example to illustrate the transmitter's operation.



- The stick return to the center: The transmitter's stick is in the center.
- Stick's rudder offset: The offset of the transmitter sticks from the center.





4 SIGNAL LOSS PROTECTION FUNCTION

If the X4 Pro loses transmitter signal, the flight control system will take control of the model and either land it or return it to the 'home' position and land automatically. This helps prevent operators from losing or crashing their X4 Pro.

DEPARTURE POINT: When the X4 Pro enters the safe flight state with 6 or more GPS satellites, the X4 Pro will record the position as departure point.

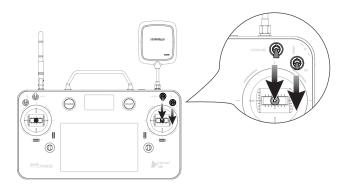
Down (Position 2) deactivates the RTH function.

4.1 CONDITIONS WHICH ACTIVATE THE SIGNAL LOSS PROTECTION MODE.

- (1) Transmitter power is off.
- (2) The flight distance is beyond the effective distance of the transmitter's signal transmission.
- (3) There are obstacles between the X4 Pro and the transmitter.
- (4) The transmitter's signal was interrupted by some other strong electronic interference.

4.2 EXITING RTH MODE

Pull down the RTH function switch (Home switch) and the flight course switch (B switch). The X4 Pro will exit the RTH Mode.



- To ensure that the X4 Pro can return safely to its home point when signal is lost, fly
 the X4 Pro in the safe flight state.
 - If the quantity of GPS stars drops below six for more than 20 seconds while the X4 Pro is returning to home, the X4 Pro will descend automatically.
 - The X4 Pro will not avoid obstacles automatically while in RTH mode. You must set the height value to avoid obstacles in the X4's path.

5 INTELLIGENT BATTERY ALARM FUNCTION

When the voltage of the X4 Pro battery drops below 10.8V, the quad will begin to slowly descend. At this point, the quad will still ascend when throttle is increased, but you should land the X4 Pro as soon as possible.

X4 Pro Battery	BAT	65%	TIME	00:19
	TX	35%	DIST	0m
	RF	88%	ALT	+ 3m
	GPS	0	DIR	NE
	ALT H		Headle	ss
Transmitter Low battery Alarm	Low B	attery TX		

TROUBLESHOOTING

1. The motor doesn't work.

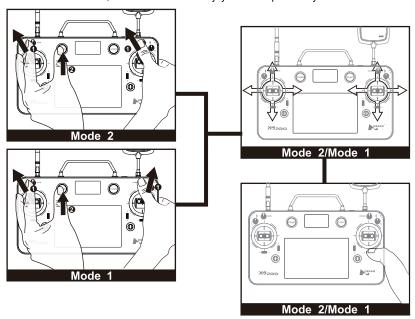
Recalibrate the transmitter.

MODE 1 transmitter

Push the left joystick to the top on the left, and the right joystick to the top on the right. Keep them in this position and then turn on the transmitter. The LCD screen will show "Calibrate Stick", Move the joysticks in a circling motion about three times and then release and press any trim to save stick calibration.

MODE 2 transmitter

Push the two joysticks to the top on the left and keep them in this position, and then turn on the transmitter. The LCD screen will show "calibrate Stick". Move the joysticks in a circling motion about 3 times, and then release the joystick and press any trim to save and exit.



riangle You can change the mode as you like by following the above method.

2. The X4 Pro drifts during flight.

When you turn on the X4 Pro, keep it steady for 10 seconds to calibrate the sensors.

The GPS position hold is not good.

Please check your surroundings carefully for things that might interfere with the GPS signal. If the area is clear, recalibrate the compass sensor.

4. The Transmitter sounds "Beep, Beep"

Please check the power of the battery. Stop flying and charge the battery.

5. The X4 Pro will sound "Beep, Beep" when the power is on.

Update the flight control program again.

6. The transmitter loses control and the X4 Pro cannot be found.

Push Home Switch upward, and the RTH function starts. When the transmitter locates the X4 Pro and receives the signal, if users want to manually operate the X4 Pro, the Home Switch and the Flight course Switch (SB) need to be pulled downward.

7. No videos on the screen.

Check the camera, If the camera's connecting wires are loose or its LiPo battery has low power, no videos will be seen.

8. Gimbal does not work after moving the rotary switches.

Please check the wire connecting the gimbal. After a crash, it may loosen.

FCC INFORMATION

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 local 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.

Electrical and electronic equipment that are supplied with batteries (including internal batteries)

WEEE Directive & Product Disposal

At the end of its serviceable life, this product should not be treated as household or general waste. It should be handed over to the applicable collection point for the recycling of electrical and electronic equipment, or returned to the supplier for disposal.

Internal / Supplied Batteries.

This symbol on the battery indicates that the battery is to be collected separately.

This battery is designed for separate collection at an appropriate collection point.

User manual is subject to change without prior notice.

Download the latest user manual from



