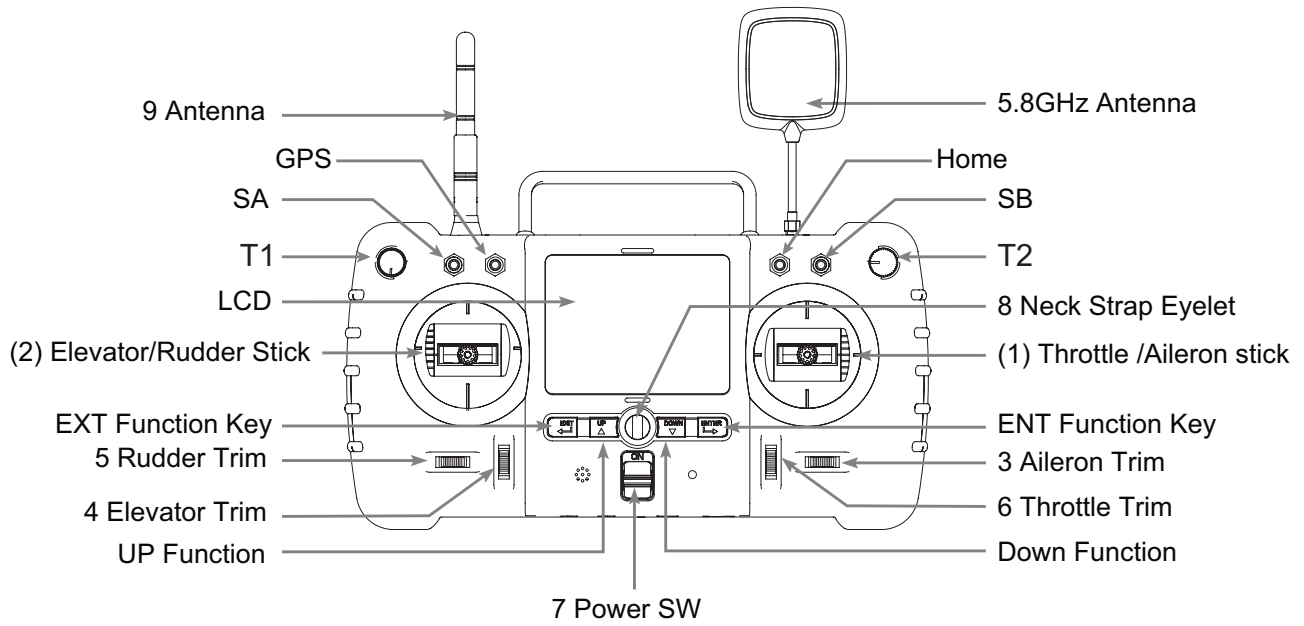
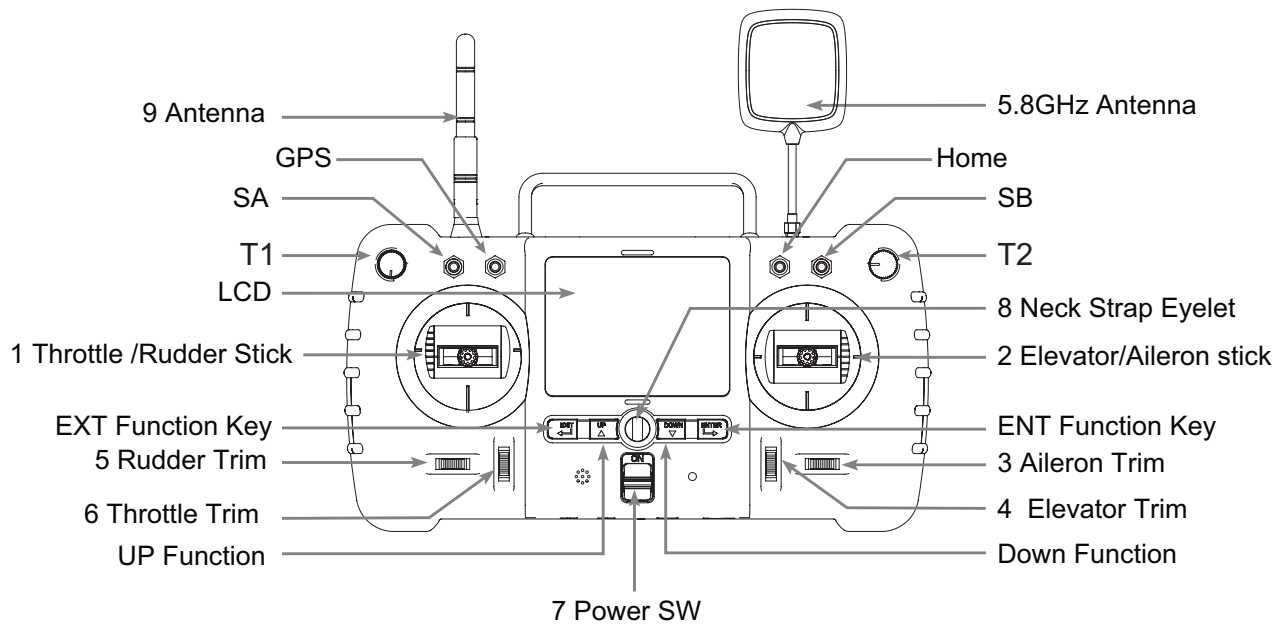


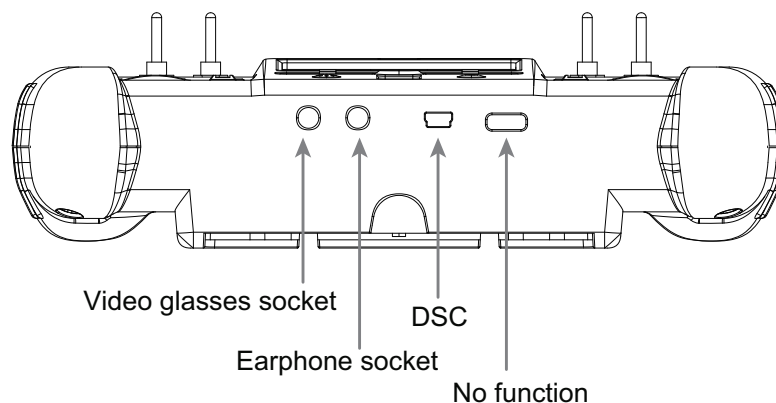
4.1.2 TRANSMITTER



(MODE 1)



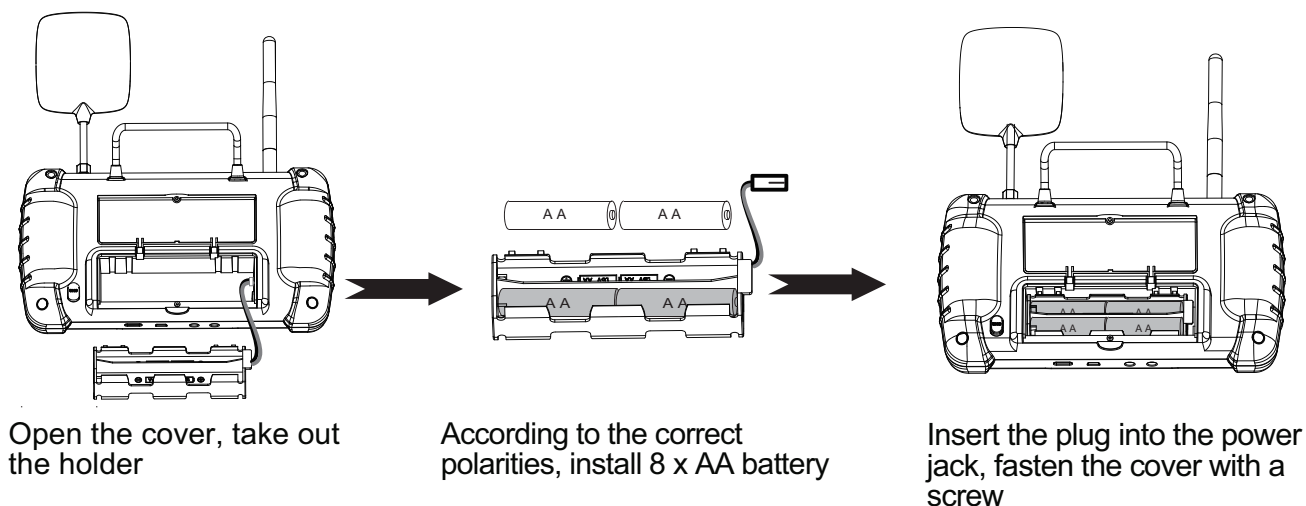
(MODE 2)



4.2 INPUT KEY FUNCTION

S/N	IDENTIFICATION	FUNCTION
1	Throttle/Rudder Stick	Forward and backward movement of the stick will make the X4 Pro increase or decrease speed respectively. Left and right movement of the stick makes the X4 Pro yaw left/right respectively.
2	Elevator/Aileron Stick	Forward and backward movement of the stick makes the X4 Pro nose point up/down respectively. Left and right movement of the stick makes the X4 Pro roll left/right to initiate a turn.
(1)	Throttle /Aileron stick	Forward and backward movement of the stick will make the X4 Pro increase or decrease speed respectively. Left and right movement of the stick makes the X4 Pro roll left/right to initiate a turn.
(2)	Elevator/Rudder Stick	Forward and backward movement of the stick makes the X4 Pro nose point up/down respectively. Left and right movement of the stick makes the X4 Pro yaw left/right respectively.
3	Aileron Trim	Aileron trim adjusts left and right roll.
4	Elevator Trim	Elevator trim adjusts up and down movement.
5	Rudder Trim	Rudder trim adjusts left and right yaw.
6	Throttle Trim	Throttle trim adjusts speed of motor.
7	Power SW	Pushing the switch up powers on the transmitter, pulling it down switches it off.
8	Neck Strap Eyelet	For the attachment of a neck strap which eases the tension of your hands from holding the transmitter.
9	Antenna	Transmits the 2.4Ghz wireless signal.
10	T1/SB	No function for now.
11	SA	Push: Headless Function Pull down: Normal Function
12	GPS	Push: Altitude mode and Position Mode Pull down: Exit the Altitude Mode and Position Mode
13	Home	Push: Enter the RTH function. Pull down: Exit the RTH function.
14	DSC (Optional)	Connects to the data cable of computer simulator.

4.3 BATTERY MOUNTING



- Do not mix old and new batteries
- Do not mix different types of batteries
- Do not charge non-rechargeable battery.

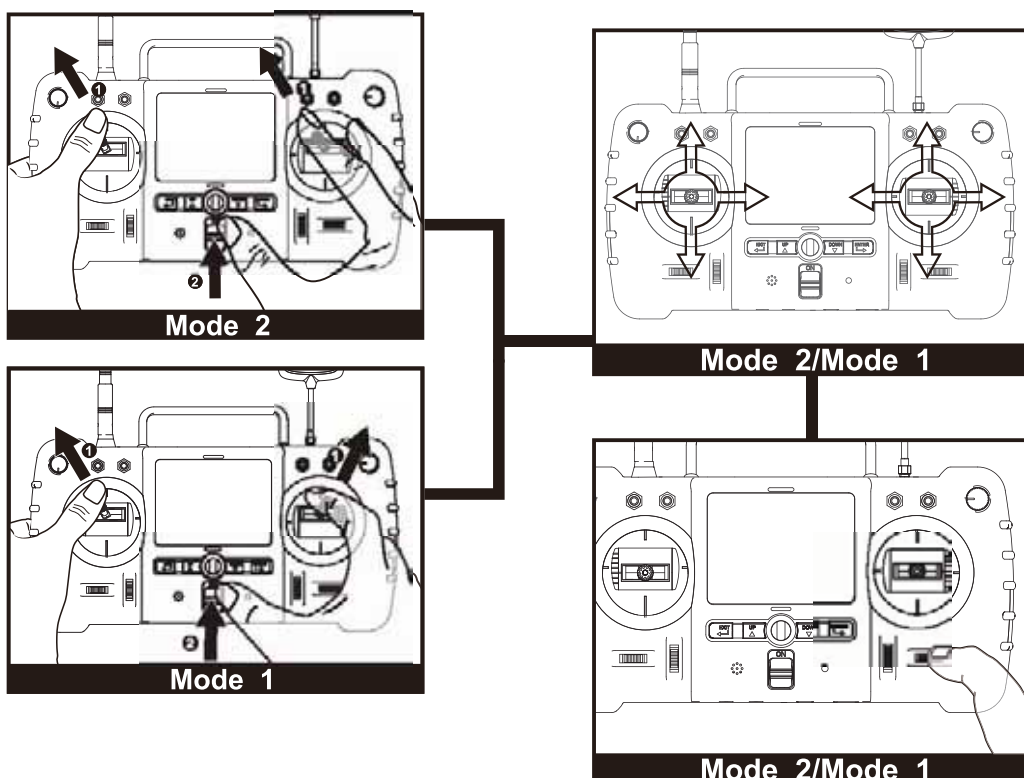
4.4 TRANSMITTER STICK CALIBRATION

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 “CALIBER-ATE STICK”, Move the joysticks in a circling motion about 3 times, and then release the joystick and press any trim to save and exist.

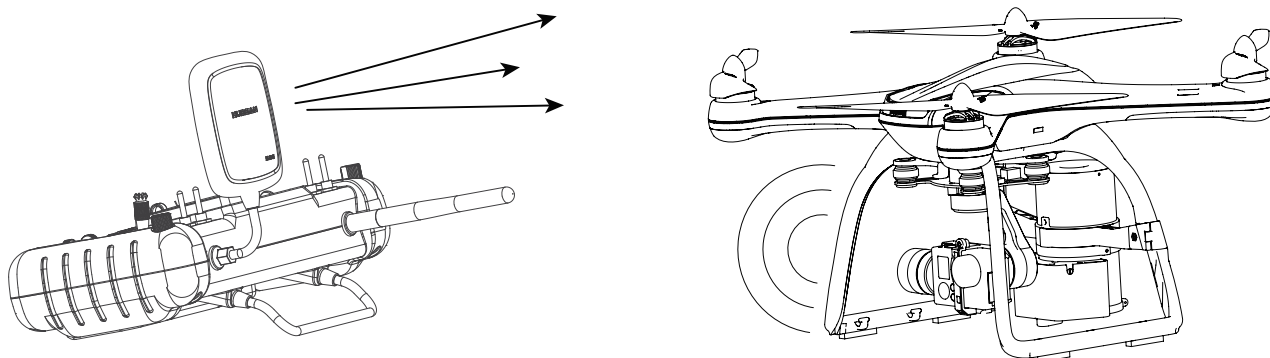
MODE 2 transmitter

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 “CALIBERATE STICK”, move the joysticks in a circling motion about 3 times, and then release the joystick and press any trim to save and exist.



4.5 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.

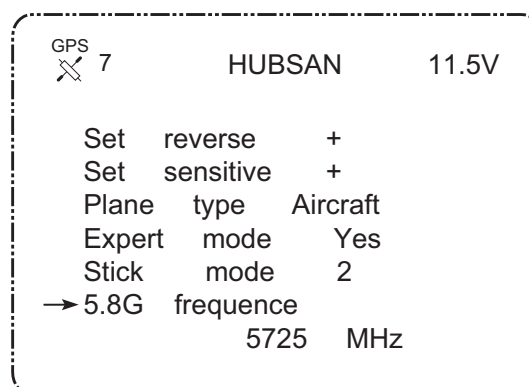
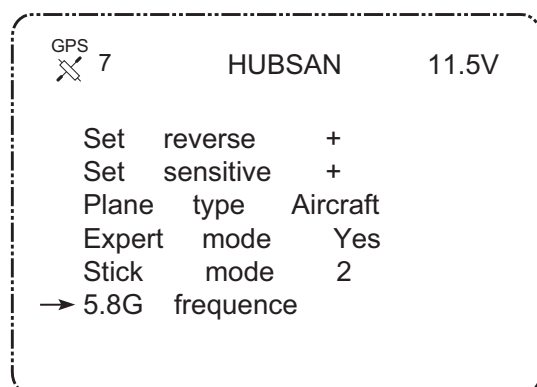


Bend the transmitter antenna vertically, and keep the signal surface pointed towards the X4 Pro video signal antenna. Ensure there are no obstacles between the two, or the X4 Pro will lose the control signal.

4.6 FREQUENCY SELECTABLE 5.8GHZ

The transmitter will automatically find the best frequency to ensure the quality live video transmission. in case there is any interference in your location, you can change the setting from the range 5725MHz~5865MHz to get longer range and better video transmission.

Hold down the ENTER key for 1 second to enter setting status, move the arrow to 5.8G FREQUENCY with up/down key, press the ENTER key again and select the frequency you need with up/down key, hold down the EXIT key for 2 seconds to confirm and exit.



START TO FLY

When the installation is finished, please do some practice and training (For example: use a computer simulator to do some fly training or ask for some professional guidance.) Please choose a suitable and authorized place to play the X4 Pro.

THE FLIGHT ENVIRONMENT FOR X4 PRO

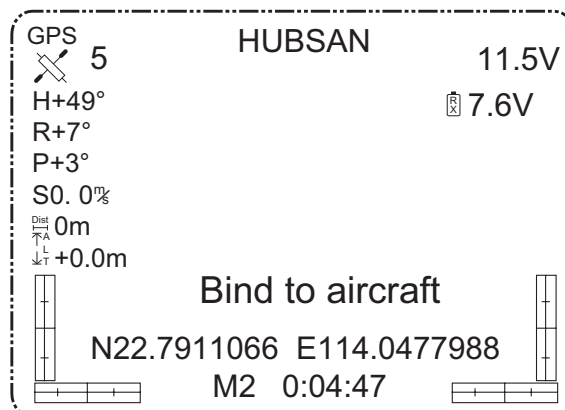
- (1) Fly the X4 Pro in a large open area. The GPS signal may become weaker and the position hold and RTH function may not be reliable when the X4 Pro is flown around trees and buildings.
- (2) Do not fly the X4 Pro in bad weather such as, strong wind, heavy snow, rain and foggy conditions.
- (3) When flying the X4 Pro, please keep away from the private property of others, people, high-line cables, trees, streets and highways.
- (4) Do not fly the X4 Pro near places such as airports.
- (5) The compass and GPS is not reliable for flights in the south and north pole.
- (6) Do not fly the X4 Pro in any forbidden areas based on your country's laws and regulations.

CHECK BEFORE FLYING

- (1) Make sure the batteries are fully charged in the Transmitter, X4 Pro, parachute, and camera.
- (2) Make sure the propellers are tight, not damaged, and installed correctly.
- (3) Make sure the gimbal vibration brackets are tight and the installation is correct.
- (4) Make sure the power plug of the parachute is connected if required, and make sure the battery is fully charged.
- (5) Make sure to insert the camera's Micro-SD card when recording.
- (6) Make sure the camera and gimbal work normally when powered on.
- (7) Make sure the motors are working normally with no unusual vibrations or noises.

5.BIND THE TRANSMITTER AND THE X4 PRO

Power on the transmitter, then the X4 Pro; the transmitter will show the lipo battery voltage and other values as below shows. If no value shows, need to bind the transmitter to the X4 Pro. Power on the transmitter, then press the ENTER button until the LCD displays "System initialize", power on the X4 Pro when the LCD screen displays "Bind to aircraft", the binding will be finished in 3 seconds.



6.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 in a level surface and slowly rotate it until the "Check Compass" disappears.

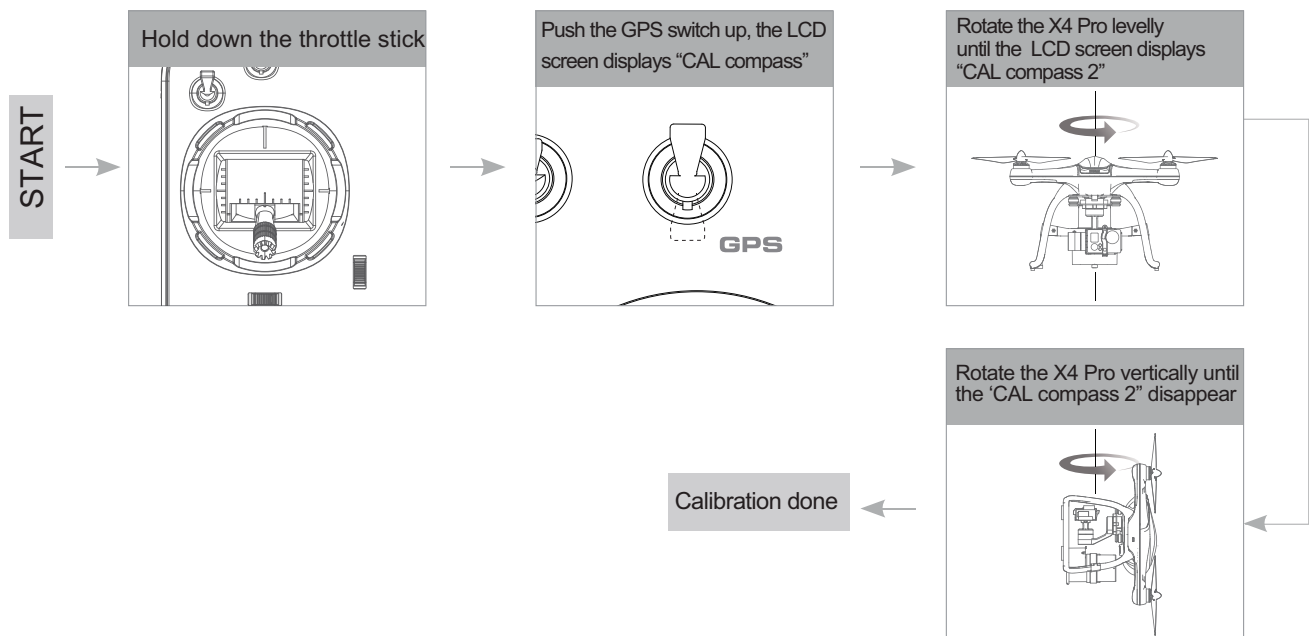
If the X4 Pro senses abnormal compass error, it will enter into the state of compass calibration. The transmitter display will show "CAL compass 1", slowly turn the X4 Pro horizontal and level until the transmitter display shows "CAL compass 2", then vertically turn the X4 Pro until the "CAL compass 2" disappears, indicating successful calibration.

If the compass data is wrong, you can also pull the Switch S2 to calibrate the compass. Below is the method:

- ⊗ • Do not do the calibration in a magnetic field, such as in parking lot, magnetite, places with underground iron reinforced concrete, high tension wires, etc.
- Do not bring keys, magnets, mobile phones or devices when you do calibration.
- Do not do the calibration near any metal, i.e. vehicles, computers, filing cabinets, etc.

6.1 CALIBRATION

Method of calibration: Hold the Throttle Stick full down, quickly move the GPS Switch until the transmitter display "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" disappear, indicating a successful calibration.



6.2 CHECK GPS CONDITION

Fly the X4 Pro after the GPS satellites are 5 or above. With 5 or more GPS satellites the position hold function will work properly and the X4 Pro can record the take off position, which is required for the RTH function to work properly.

7. START/ STOP THE MOTORS

Start the motors

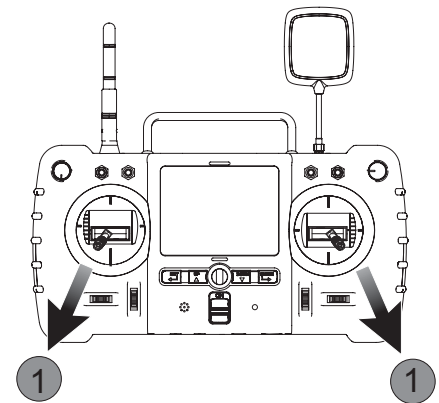
Method 1: Pull the two sticks as the picture shows. Release them after the motors start.

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.



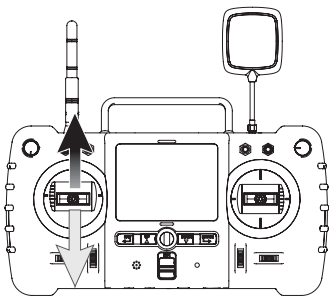
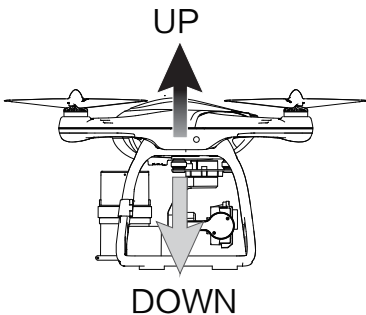
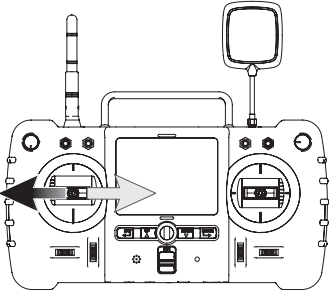
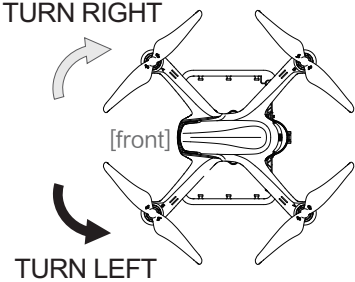
⊘ Do not stop the motors during the flight or it will crash.

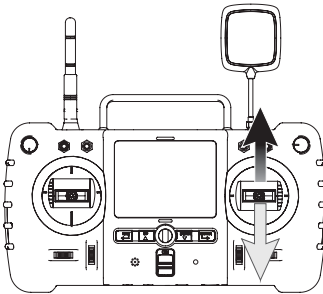
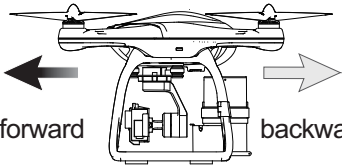
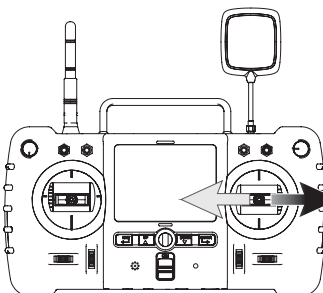
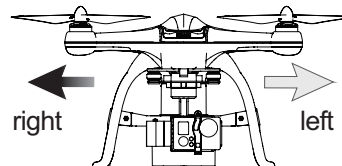
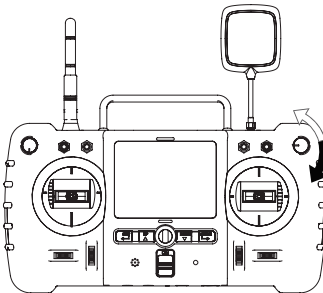
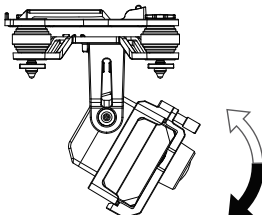
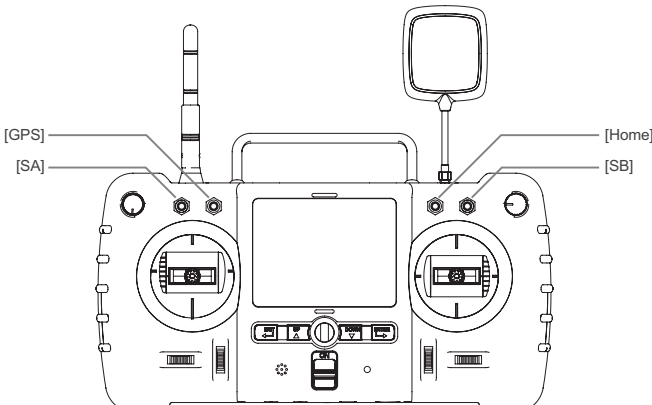
- 💡 • Move the sticks as neatly as you can. Release the sticks after the motors start or stop.
- Pull the throttle to the lowest position gently, the throttle stick will be locked. The X4 Pro will descend slowly. Move the throttle stick upward to unlock the throttle.

8 BASIC FLIGHT

The operation mode for the transmitter is Mode 1 or Mode 2, the manual will use Mode 2 as 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.

Transmitter (Model 2)	X4 Pro	Control Ways
		The throttle stick controls the X4 Pro to ascend or descend. The X4 Pro will ascend when move the throttle stick up, and the X4 Pro will descend when moving the stick to the down. It will maintain the altitude when the stick is centered(altitude hold). Move the throttle stick upward over the center and the X4 Pro will take off. (Please move the stick gently, to prevent the X4 Pro from ascending too fast!)
		Rudder stick is for controlling the left-right lateral direction of the X4 Pro. The X4 Pro will rotate counterclockwise when you move the stick to the left. The X4 Pro will rotate clockwise when you move the stick to the right. The X4 Pro doesn't rotate when the stick is centered. The amount of the stick movement corresponds to the angular velocity of rotation. The angular velocity of rotation will be greater if the the stick movement is large.

		The elevator stick pitches the X4 Pro for flying forward or backward. Move the stick forward, the X4 Pro will tilt forward in pitch and fly forward. Move the stick backward, the X4 Pro will tilt backward in pitch and fly backward. It will be level when you release the stick to the center. If you move the stick to maximum travel, the tilt angle will be greatest with faster flight.
		Aileron stick moves the X4 Pro flying left or right Move the stick left, the X4 Pro will tilt and fly left. Move the stick right, the X4 Pro will tilt and fly right. It will be level when you release the stick to the center. If you move the stick to maximum, the tilt angle will be greatest with faster flight.
		T2 Rotary Switch control the pitch rotation of the gimbal (only effective when the gimbal in followed mode and locked mode) Slip the T2 Rotary Switch anti-clockwise, the gimbal will rotate upward; Slip the T2 Rotary Switch clockwise, the gimbal will rotate downward; Slip the T2 Rotary Switch into middle, the gimbal will be in the level position and the transmitter will shake and sound a beep to indicate.
 position 1 (upward)  position 2 (downward) 		Switch GPS When it is on the position 1 (upward), the GPS function start. When it is on the position 2 (downward), the GPS function close. Switch SA is headless function switch When it is on the position 1 (upward), the headless mode start. When it is on the position 2 (downward), the headless mode close. Switch SA is airline operation key Switch Home is RTH function switch When it is on the position 1 (upward), the RTH function start. When it is on the position 2 (downward), the RTH function close. Switch SB has no function now

9 LOSE CONTROL PROTECTION FUNCTION

When the X4 Pro loses the signal of the transmitter (lost control), the flight control system will control the X4 Pro to land or return to the departure home position(RTH) and land automatically. It can prevent the X4 Pro from getting lost or crashing.

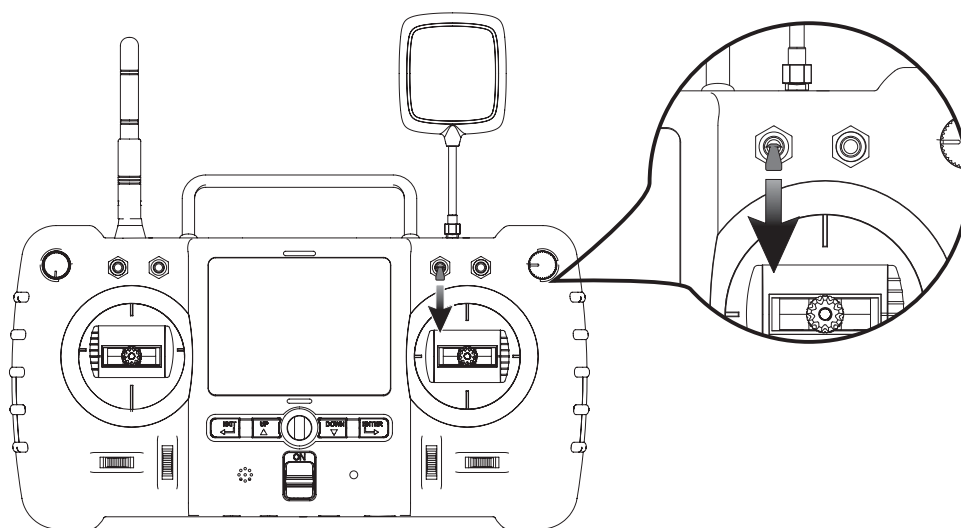
 **DEPARTURE POINT:** When the X4 Pro enters into safe flight state with 5 or more GPS satellites, the X4 Pro will record the position as departure point.

9.1 THE CONDITIONS WHICH TRIGGER THE LOST CONTROL PROTECTION MODE

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

9.2 EXIT THE RTH MODE

Pull down the RTH function switch, the X4 Pro will exit the RTH Mode.



- ⊘ • To ensure that the X4 Pro can return to the departure point successfully after loss of control signal, only begin flying after it enters into the safe flight state with 5 or more GPS satellites.
- During the process of lost control signal and returning to home, if the quantity of GPS satellites is less than 6 and lasts for 20 seconds, the X4 Pro will automatically land.
- The X4 Pro can't avoid obstacles when it is in RTH mode. You should always set the height value to avoid any known obstacles.

10 INTELLIGENT BATTERY ALARM FUNCTION

When the voltage of the X4 Pro' battery is lower than 10.8V, the X4 Pro will descend slowly, although the X4 Pro will ascend when increasing the throttle, you should get the X4 Pro back and land as soon as possible.

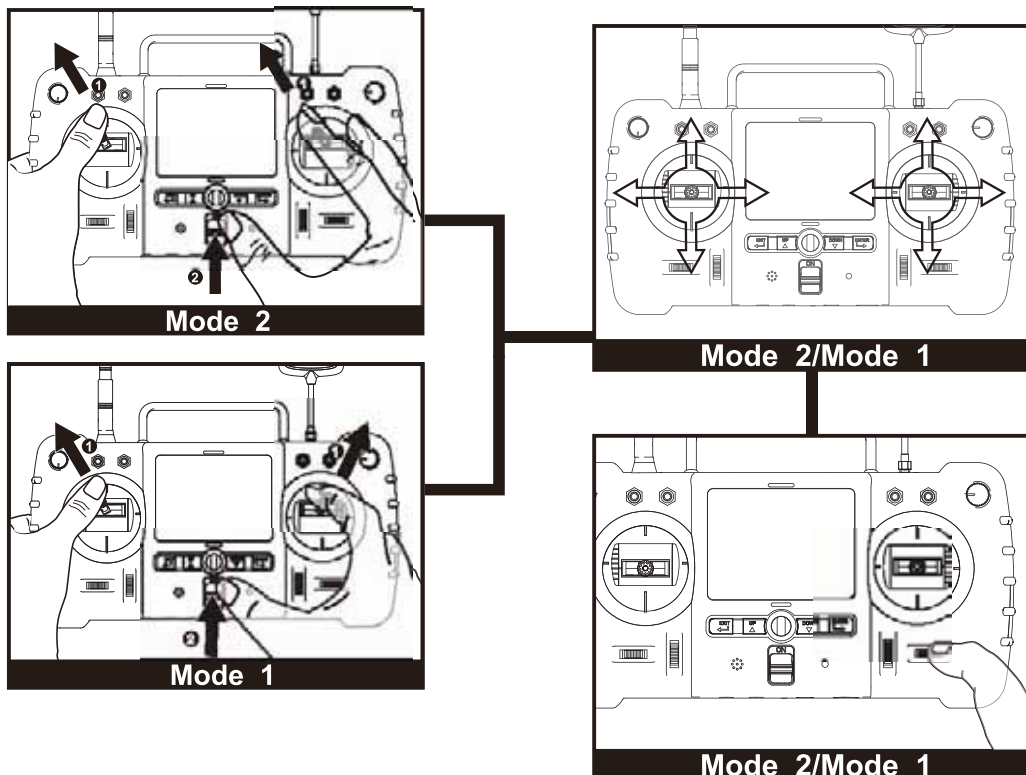
X4 Pro Battery	BAT	65%	TIME	00:19
	TX	35%	DIST	0m
	RF	88%	ALT	+ 3m
	GPS	0	DIR	NE
	ALT	Hold	Headless	
Transmitter Low battery Alarm	Low Battery TX			

1. The motor doesn't work.

Recalibrate the transmitter.

Mode 2: Put the two sticks to the upper left position and hold, then power on the transmitter. Then rotate Both sticks a couple of times in full circles. Then hold down any trim until the LED on the TX blinks red, signaling a successful calibration. (See the picture below.)

Mode 1: Put the left stick to the upper left position and the right stick to the upper right position and hold, then power on the transmitter. Rotate both sticks a couple of times in full circles. Then hold down any trim until the LED on the TX blinks red, signaling a successful calibration. (See below.)



2. The X4 Pro drifts during flight.

When you power on, please keep the X4 Pro steadily for 10 seconds. The purpose of this is to initialize the sensor.

3. The GPS position hold is not good.

Please check the surrounding flight area carefully to see whether there are other things interfering with the GPS signal, then calibrate the compass sensor again.

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 lose control and the X4 Pro cannot be found.

Push Home Switch upward, and the RTH function starts. When the transmitter located the X4 Pro and received the signal, if users want to manual operate the X4 Pro, the Home Switch and the Flight course Switch(SB) need to pull downward.

3. The GPS position hold is not good.

Please check the surrounding flight area carefully to see whether there are other things interfering with the GPS signal, then calibrate the compass sensor again.

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 lose control and the X4 Pro cannot be found.

Push Home Switch upward, and the RTH function starts. When the transmitter located the X4 Pro and received the signal, if users want to manual operate the X4 Pro, the Home Switch and the Flight course Switch(SB) need to pull downward.

7. No videos on the tablet.

Check the camera: the camera connect wires loose or the lipo battery inside the camera has low power will result no videos.

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

Please check the gimbal connect wire, after crash this wire may loose.

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

WWW.HUBSAN.COM

