HUBSAN®

CE

H507A X4 STAR PRO

《H507A Quick Start Guide》

Version 2.4

Disclaimer & Warning

All users must read product operating instructions as well as this liability disclaimer before using any Hubsan product. By using a Hubsan product(s), users are accepting the terms and conditions of Hubsan liability and operational guidelines. This product is not suitable for minors under 14 years of age. While operating a Hubsan product(s), users also accept all liability and responsibility for their own behavior, actions as well as any consequences resulting thereof while using a Hubsan product(s). These products may only be used for purposes that are proper and in accordance with local regulations, terms and any applicable policies/guidelines Hubsan may make available. Users agree to comply with these terms and conditions, along with any and all relevant policies/guidelines set forth by Hubsan.

Instructions

Some product flight functions are restricted in certain areas. Once you use this product, you are deemed to have read carefully the relevant ICAO regulations, local airspace control provisions and the regulations governing UAVs. You assume all liability for any non-compliance with the foregoing, are responsible for the consequences for your actions as well as any indirect and/or direct liability that arises as a result of these limitations.

Please register all applicable UAVs with the FAA within 3 working days of receiving the product(s) at the below website.

https://registermyuas.faa.gov/

For further information about your product, visit www.hubsan.com for more details.

Flight Environment Requirements

(1) Select an open environment devoid of high rise buildings and tall obstructions (such as trees and poles). Near buildings and obstacles, flight control signals and GPS signals can be severely weakened; GPS functions such as GPS mode and Return to Home may not function properly.
(2) Do not fly in bad weather conditions (such as in wind, rain or fog).
(3) Fly the drone in ambient temperatures of 0-40 ℃.
(4) When flying, please stay away from obstructions, crowds, high voltage lines, trees, water, etc.
(5) To avoid remote control signal interference, do not fly in complex electromagnetic environments (such as venues with radio stations, power plants and towers).
(6) The H501A cannot be used in or near the Arctic circle or Antarctica.
(7) Do not fly in no-fly zones.
(8) Do not operate the aircraft near high pressure lines, airports or areas with severe magnetic interference.

Downloading X-Hubsan

Before flying with the H507A, users must download the X-Hubsan APP.

Download the APP for free by scanning the below code or by downloading it via the App Store (iOS) and Google Play (Android).
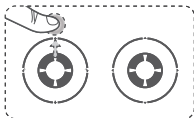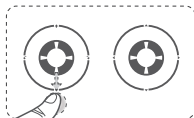
Scan To Download

There are two most commonly used joystick modes: Mode 1 (Japan ese hand) and Mode 2 (American hand). This manual will introduce flight operations in Mode 2.
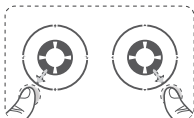
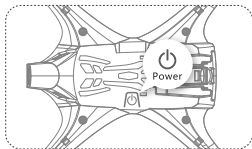Arming/Disarming motors

Taking off
(Mode 2, American Hand)

Landing
(Mode 2, American Hand)
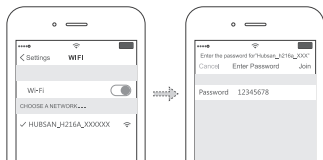
The First Flight Configuration: Aircraft+Mobile Device

Step 1

Pairing the aircraft and mobile device

1) Install the aircraft battery and power the aircraft on (hold the Power button for 3-5 seconds until the aircraft lights up).

2) Go to your mobile device's WIFI settings and select the aircraft's WIFI signal.

WIFI signal: (HUBSAN_H507A_XXXXXX)   Password: 12345678

Step 2

Compass calibration:

Please follow the app's prompting to calibrate.

Step 3

Takeoff: (two options)

1) Manual takeoff (with the virtual joysticks): To start/arm the motors, please be sure that the joystick setting is activated. Simultaneously pull both joysticks diagonally down-out as shown in the figures below. Slowly push the throttle stick up; the aircraft will ascend and takeoff.

2) Automatic takeoff: Tap the Auto Takeoff key. The aircraft will take off and hover at a height of around 2 meters. Note that the Auto Takeoff key will turn into an Auto Land key after the aircraft begins to fly.

Landing: (three options)

1) Slowly push down the throttle stick until the copter has completed its descent to the ground. Disarm the motors by simultaneously pulling both sticks diagonally down-out. When the motors have completely stopped, release the joysticks.

2) Select the Auto Land option on the screen and the aircraft will slowly descend in place to land.

3) Select the Automatic Return option on the screen and the aircraft will return either to its takeoff point or to the mobile device.
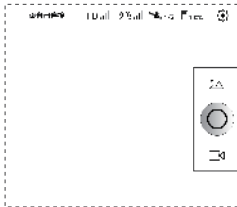
The First Flight Configuration: Aircraft + Mobile Device (Phone/Tablet) + HT009 Transmitter
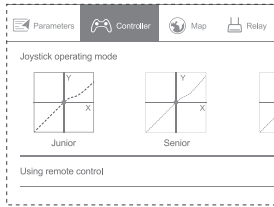
Step 1

Pairing the aircraft and mobile device

1) Go to your mobile device's WIFI settings and pair the device with the aircraft. Then, run the X-Hubsan APP.
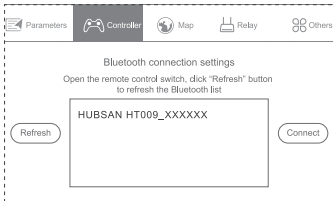
2) Power the transmitter on; pair the mobile device and transmitter on the Bluetooth menu.
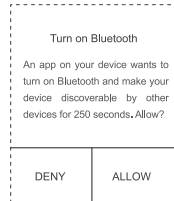
1) Enter the main APP interface and tap the Settings cog on the upper right hand corner.

Tap the "Relay" setting. Select "Bluetooth" on the "Transmitter connection" tab.

The interface will then show the "Bluetooth connection settings" menu. Select the HUBSAN HT009_XXXXXX and confirm to connect.

3. The device will request permission to use Bluetooth. Tap "Allow" to continue.

If the Bluetooth connection is successful, the prompt "Bluetooth connection successful" will appear on-screen. The HT009's Bluetooth indicator will turn solid and the transmitter will beep.
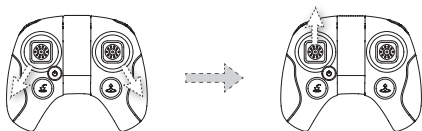
Step 2

Compass calibration:

Please follow the app's prompts to calibrate.

Step 3

Takeoff: (Two Options)

Manual takeoff: To start/arm the motors, please be sure that the joystick setting is activated. Simultaneously pull both joysticks diagonally down-out as shown in the right hand figure. Slowly push the throttle stick up; the aircraft will ascend and takeoff.

Automatic takeoff: Press the Auto Takeoff button. The aircraft will take off and hover at a height of around 2 meters (right hand figure). Note that the Auto Takeoff key will turn into an Auto Land key after the aircraft begins to fly.

Landing: (Three Options)

Manual landing: Slowly push down the throttle stick until the copter has completed its descent to the ground. Disarm the motors by simultaneously pulling both sticks diagonally down-out. When the motors have completely stopped, release the joysticks.
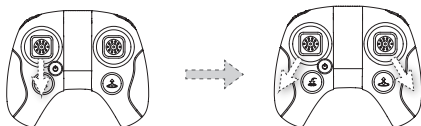
2) Press the Auto Land button and the aircraft will slowly descend to the ground.

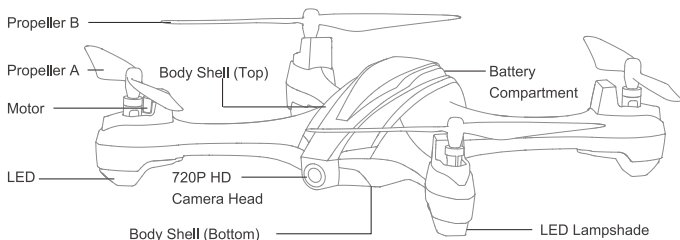3) Tap the Return to Home icon. The aircraft will return and slowly descend to the ground.
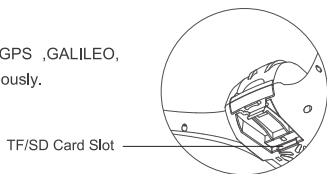
Note: Before taking off, make sure that there are no obstructions in the flight route or environment. Be sure to choose a flat, open area when landing.

Getting To Know Your H507A

Thank you for purchasing a HUBSAN product. The H507A is an easy to fly aircraft capable of a variety of flight functions. It is equipped with a full-function remote control.

Propeller B

Propeller A

Body Shell (Top)

Battery Compartment

Motor

LED

720P HD Camera Head

Body Shell (Bottom)

LED Lampshade

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

TF/SD Card Slot

Getting To Know Your HT009 Transmitter

The HT009 is a Bluetooth transmitter fully outfitted for use with the H507A aircraft and its various functions. Experience real-time video transmission through the X-Hubsan app on a mobile device equipped with a high definition screen.

Photo Video

Camera Angle Adjustment Key (Temporarily No Function)

Battery Compartment

07

Mobile Device Frame

Joystick

Power

Transmitter Status LED

Transmitter Status LED

Joystick

Auto Takeoff/Auto Land

Bluetooth Status LED
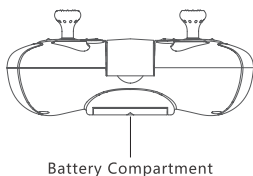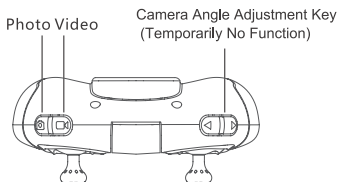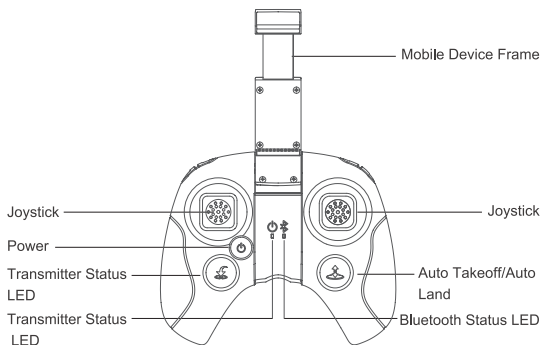
Getting To Know X-Hubsan

X-Hubsan is a flight control application designed for HUBSAN WIFI enabled aircraft. Users can control flight, camera, video and flight parameters with the app. It is recommended to use a large screened smartphones or tablets for the optimal visual experience.

Home

FPV Signal

Remote Control Signal

Aircraft GPS Signal

Aircraft Power/ Battery Level

Settings

Flight Mode

Virtual Joysticks On/Off

Automatic Return

Auto Takeoff/Land

Headless On/Off

Aircraft & Transmitter Position Check

Map Display Mode

Map Calibration

08
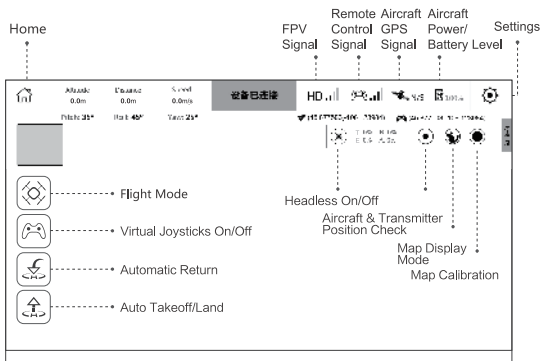
1. Aircraft LED Indications

The H507A has 4 LEDs; the fore/frontal LEDs are blue and the rear LEDs are red. The LED status indications are defined as follows:

Function		LED status indication
Power On And Start Up		All 4 LEDs flash simultaneously
Compass Calibration	Calib. Compass 1	All 4 LEDs flash clockwise
	Calib. Compass 2	LEDs should be flashing green in vertical pairs, alternately
Horizontal Calibration		All 4 LEDs flash simultaneously
Flight Mode		All 4 LEDs are solidly lit
Return To Home		Fore LEDs are solid blue and rear LEDs slowly flash red
Low Power		Fore LEDs are solid blue and rear LEDs rapidly flash red
Headless Mode		Fore LEDs (blue) flash alternately; rear LEDs (red) stay solid
Flight Control Signal Loss Warning		When the flight control signal is lost, the rear LEDs will stay solid while the fore LEDs will slowly flash

2. Installing And Removing

The X4 aircraft uses 5.3-inch propellers. Each is marked with either an A or a B. Before installing the propellers for the first time, please check whether the propeller and motor arm read "A" or "B". The two letters should match. Before installing propellers for the first time, please check that each Propeller A is matched with motor A and each Propeller B is matched with motor B. Please replace damaged propellers.

Propeller B
Propeller A
A = A
Propeller A
Propeller B
B = B
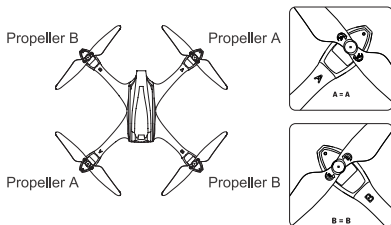
Notice:

Mind the differing colors of the A and B propeller screws!
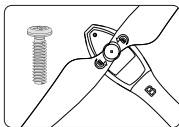
Propeller B
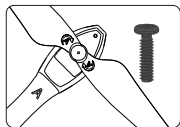
Propeller A

Align the "I" with the flat side of the "D" shaped motor shaft. Then use the provided screws and screwdriver to secure each propeller. Propeller A's are paired with black propeller screws and are tightened counterclockwise. Propeller B's are paired with silver propeller screws and are tightened clockwise. (as shown below)

"I" symbol

"D" shaft

Counterclockwise

Clockwise

Clockwise

Counterclockwise

3. Charging And Installing The Aircraft Battery

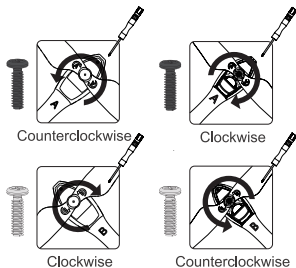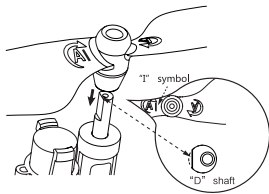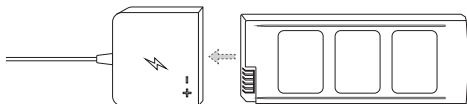To charge the battery, connect the battery to the provided USB charger and connect the charger to a PC terminal or an AC adapter (5V, 1A). The charger's USB adapter flashes red while charging and turns solid when the battery is fully charged. Please disconnect the battery from the charger immediately afterwards. Full charging time is around 120 minutes.

Installing the battery: Push the battery into its compartment as shown in the below figure. Note how the polarity pins on the battery face upward.

⚠️
● Please read the "Disclaimer & Safe Operation Guide" carefully before flying to understand safety precautions. Watch the instructional video on our official website (www.hubsan.com) to learn how to use aircraft functions properly.
● For product details, please visit www.hubsan.com to download the H507A User Manual.

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Content subject to change without notice.

Frequently Asked Questions

1. Weak or nonexistent GPS signal/few or no GPS satellites

Make sure that the aircraft is not indoors or between buildings. Please take the aircraft outdoors to receive GPS satellites/signal.

2. Altitude Hold mode and GPS mode do not function

Check that the aircraft has 6 or more GPS satellites.

3. The aircraft does not return to the home point

When the aircraft takes off, be sure that the aircraft has received 6 or more satellites.

4. The aircraft keeps on losing GPS satellites or GPS satellites drop to 0 erratically

Check to see whether there are sources of high-frequency signal interference around the aircraft (such as high-voltage lines, signal transmission towers, etc).

5. Cannot connect to the aircraft's Wi-Fi

Restart the aircraft.

Limitation Of Liability

Hubsan accepts no liability for damages, injuries or any legal responsibilities incurred directly or indirectly from the use of Hubsan products under the following conditions:

1. Damages, injuries or any legal responsibilities incurred when users are drunk, under the influence of drugs or anesthesia, dizzy, fatigued, nauseous and/or affected by other conditions both physical and mental that could impair sound judgment and/or personal ability.

2. Subjective misjudgment and/or intentional mis-operation of products.

3. Any and all mental damage, trauma, impairment, illness, compensation caused/solicited by accidents involving Hubsan products.

4. Product operation
in no-fly zones (i.e. natural reserves).

5. Malfunctions or problems caused by modification, refit, replacement or use with non-Hubsan accessories/parts, failure to follow the guidance of the manual in assembly or operation.

6. Damages, injuries or any legal responsibilities caused by mechanical failures due to natural wear and tear (aircraft flight time clocking in 100 hours or above), corrosion, aging hardware, etc.

7. Continued flight after low voltage protection alarms are triggered.

8. Knowingly flying aircraft under abnormal conditions (such as when water, oil, soil, sand or other unknown material are inside the X4, the aircraft and/or transmitter are incompletely assembled, the

main components have obvious faults, obvious defect or missing accessories, etc).

9. Flying in the following situations and/or environments: areas with magnetic interference (such as high voltage lines, power stations, broadcasting towers and mobile base stations), radio interference, government regulated no-fly zones, if the pilot loses sight of the X4, suffers from poor eyesight or is otherwise unsuited for operating Hubsan products.

10. Aircraft use in or exposure to bad weather, such as a rain, wind, snow, hail, lighting, tornadoes and hurricanes.

11. Products are involved in/exposed to collisions, fire, explosions, floods, tsunamis,

manmade and/or natural structure collapses, ice, avalanches, debris, landslides, earthquakes, etc.

12. The acquisition, through use of Hubsan products (specifically but not limited to aircraft), of any data, audio, video that results in infringement of law and/or rights.

13. Misuse and/or alteration of batteries, product/aircraft circuits, hardware protections (including protection circuits), RC model and battery chargers.

14. Any malfunction of equipment or accessory, including memory cards, that results in the failure of an image or video to be recorded or to be recorded in a way that is machine readable.

15. Users who engage in reckless, unsafe flying (with or without sufficient training).

16. Noncompliance with precautions, instructions, information and operation guidelines/methods given through official Hubsan website announcements, product quick start guides, user manuals, etc.

17. Other losses, damages, or injuries that are not within the boundaries of Hubsan responsibility.

Advisory

1. This product complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This product also complies with Part 15 of the FCC rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference.

(2) This device must accept any interference received, including interference that may cause undesired operation.

NOTE: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications or changes to the X4. Such modifications or changes could void the user's authority to operate the product.

NOTE: 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. If not installed and used in accordance with the instructions, it 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 with one or more of the following measures:
·Reorient or relocate the receiving antenna.
·Increase the distance between the aircraft and transmitter.
·Consult the product dealer or an experienced radio/TV technician for help.

2. Make sure that antennas are at least 20 cm away from people. The internal remote control USB interface and aircraft USB interface can only be connected using USB 2.0 and above. Do not connect to a USB power connector. Please use correct batteries, as the use of other types puts the device at risk of exploding. Follow guidelines for handling used batteries correctly.
Hubsan guarantees that this product meets basic 19991/EC requirements, as well as some other relevant directives.

3. Please note that this product is intended for personal use and should never be used in a manner that infringes upon or contravenes international or domestic law and regulations.
You shall not use Hubsan products to:
1) Defame, abuse, harass, stalk, threaten or otherwise violate the legal rights (such as right of privacy and publicity) of others.
2) Photograph people on private property without their consent or photograph in areas where photography is prohibited without prior authorization.
3) Use Hubsan products for illegal or inappropriate purposes (such as for espionage, military operation, unauthorized investigation and unauthorized detection).
(4) Violate or disregard applicable laws, administrative rules and social customs.

Please note:
(1) Filming or recording shows, exhibitions or other commercial buildings for private purposes may in some cases result in the infringement of intellectual property rights.
(2) In some regions and countries, small aerial photography aircraft are prohibited from engaging in commercial activities.
If you encounter any problems that you can not resolve during the installation process, please contact an official distributor or Hubsan Technical Support.

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Please read the operating instructions carefully before use!

⚠️

- Never leave units unattended when charging
- Unplug the charging cable immediately after charging
- Propellers may cause injury
- This product is not a toy and is not suitable for children under 14 years of age

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Download the user manual