HUBSAN®

GPS WAYPOINT

X4 STAR WITH APP

H507A

PLEASE READ THE INSTRUCTION MANUAL CAREFULLY

IMPORTANT SAFETY NOTES

OPERATION: Be extremely careful and responsible when using the Quad. Small electronic components can be damaged by crashes or by dropping into water. To avoid any injuries, do not use the quad with broken or damaged components.

Maintenance: Do not try to fix the quad by yourself, please contact Hubsan directly or distributors authorized by Hubsan for customer services.

For more information, please visit official website at www.hubsan.com

Battery: Do not put the battery in high temperature area above 60 degrees.
Using a Hubsan dedicated charger for recharging.
Keep the batteries away from children.
Keep the batteries dry.

- Do not fly the quad in crowded places, always be aware of the safety of yourself and others.
- Do not fly in bad weather.
- Never try to catch the quad while it is in flight.
- This quad is intended for experienced pilots age 14+.
- Take off the battery if it is not in use, to avoid accidentally injuries.
- Keep your body away from propellers after power on, High speed propellers are very dangerous.

Read the Disclaimer first before use.

※SYMBOL EXPLANATION

No operating Important Notice Instruction Explanation, reference

USAGE ADVICE

Hubsan provides you with two files for your quad:
1. 《Disclaimer》
2. 《Quick Start Guide》

Watch the tutorial video and read the Disclaimer first,.
For detail information, please download User Manual at www.hubsan.com.

Safety Advisory Notice for 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 it 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:

- If you do not plan to fly the quad for a long time, store the battery approximately 50% charged to maintain battery performance and battery life.
- Please use Hubsan chargers for battery charging.
- Discharging the battery within 5C current , do not over-discharging.
- Do not charge on carpet to avoid fire.
- Batteried need to be recharged if not in use for over 3 months.

1.Charge and store LiPo batteries in a location where a battery fire or explosion (including smoke hazard) will not endanger life or property.

2.Keep LiPo batteries away from children and animals.

3.Never charge the LiPo battery that has ballooned or swelled.

4.Never charge the LiPo battery that has been punctured or damaged.

5.After a crash, inspect the battery pack for signs of damage. Discard in accordance with your country' s recycling laws.

6.Never charge the LiPo battery in a moving vehicle.

7.Never overcharge the LiPo battery.

8.Never leave the LiPo battery unattended during recharging

9.Do not charge LiPo batteries near flammable materials or liquids.

10.Ensure that charging leads are connected correctly. Reverse polarity charging can lead to battery damage or a fire or explosion.

11.Have a suitable fire extinguisher (electrical type) OR a large bucket of dry sand near the charging area . Do not try to extinguish electrical (LiPo) battery fires with water.

12.Reduce risks from fire/explosion by storing and charging LiPo batteries inside a suitable container.

13.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.).

14.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.

15.Do not attempt to disassemble or modify or repair the LiPo battery.

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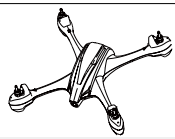
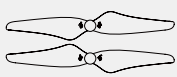
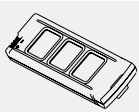
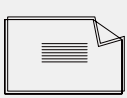
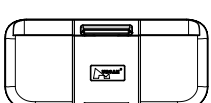
INTRODUCTION

Thank you for buying the HUBSAN product. It is designed as an easy-to-use,multi-functional RC model, capable of hovering and acrobatic flight maneuvers. Please read the manual carefully and follow all the instructions. Be sure to keep the manual for future reference.
Quadcopter Weight: 162g (including protection)

1.ITEMS INCLUDED IN THE BOX (Check all the items in the box before using.)

S/N	Part Name	Photos	Qty	Remarks
1	Quad		1PC	
2	Propellers		8PCS	Propeller A 4pcs Propeller B 4pcs
3	USB Charger		1PC	For Li-Po battery charging
4	7.6V Li-Po battery		1PC	For quad copter
5	Screw-driver		1PC	For removing propellers
6	User Manual		2PCS	《Disclaimer》 《Quick Start Guide》
7	Repeater		1PC	Use with X-Hubsan APP

2. QUAD COPTER MOTOR LED INDICATOR

Indicator Status:
Front LED: is blue; Back LED: is red.
1.Power on: 4 LED indicators blink simultaneously
2.Compass Calibration:
  1) Horizontal calibration: 4 LED indicators blink circularly.
  2) Vertical calibration: 4 LED indicators blink alternately.
3.Quadcopter Calibration : 4 LED indicators blink slowly.
4.GPS Flight: 4 LED indicators remain lighted.
5.GPS Return : 2 front LED remain lighted, and 2 back LED blink slowly.
6.Low Voltage: 2 front LED remain lighted, and 2 back LED blink quickly.
7.Disconnection: When the quad is out of control, 2 front LED blink alternately, and 2 back LED remain lighted.

3. QUAD COPTER BATTERY

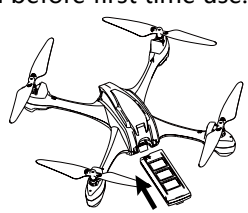
3.1 INTRODUCTION

The quad copter battery is a rechargeable Li-Po battery with 550mAh capacity and 7.6V voltage.
The battery should only be charged with the HUBSAN charger to avoid overcharge.

⚠ Please make sure the battery is fully charged before first time use.

3.2 INSTALL THE BATTERY

Push the battery into the battery compartment correctly.



3.3 CHARGING

Connect the battery to the USB charger, then connect the USB charger to USB devices, such as a computer or mobile power charger (5V , 1A).
The USB LED indicator blinks in red when charging, and remain lighted after the battery is fully charged, then please unplug the charger and battery
Charging time: around 200 mins.

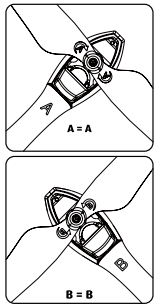
⚠ Please fully charge the batteries to avoid loss of control due to low voltage.

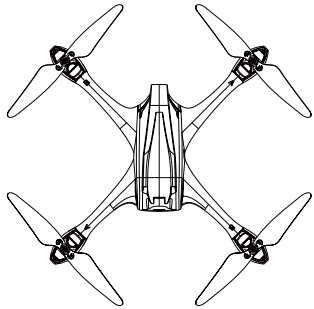
4 PROPELLER

4.1 Introduction

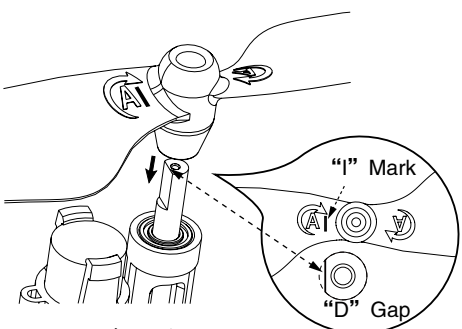
The quad is equipped with 6.95" propellers that are marked with A and B.
Propellers are consumables, please replace with new ones if there is any damage.

4.2 Installation

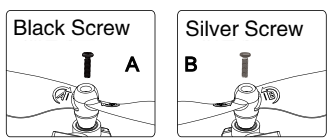




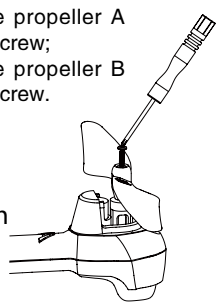
Attach the propellers to the corresponding motors that are marked A and B,tighten the propellers and keep the motors deadlocked with the screw-driver.



<Figure 1>



Tighten the propeller A with black screw;
Tighten the propeller B with sliver screw.



Match the "I" mark on propellers to the "D" gap on motor shafts when assembling, as figure 1 shows.

⚠
- Make sure that the A and B propellers are installed correctly. The X4 will not fly if propellers are improperly installed.
- Keep fingers and other body part away from hazardous moving parts

5 X-Hubsan App

Download X–Hubsan APP in App Store or in Google Play.

X–Hubsan is an APP designed for Hubsan products. Users can control the quad, take pictures/videos and set parameters of quad on the APP.It is advised to control the quad within 50 meters and use the smart devices with large screen for the best visual experience.And you can also buy Hubsan repeater (HT005) to get longer distances (400m).

6 START TO FLY

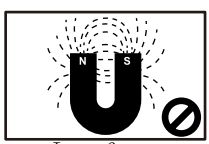
In case of any injuries caused by improper operations, it is advised that beginners learn to operare the quad under the guidance of professional. It is very improtant to choose the right flight environment.

6.1 FLIGHT ENVIRONMENT

(1) The flying area should be open and is without tall buildings, otherwise the GPS may not work.
(2) Do not fly in bad weather like windy, snowy, rainy or foggy days.
(3) Stay away from obstacles, crowds, power cables, trees and water etc.
(4) Do not fly near the radio towers or airports.
(5) The quad will not work in the Antarctic Circle or the Arctic Circle.
(6) Obey the local laws and regulations, do not fly in restricted areas.
(7) Only fly in good weather conditions and air temperatures between 0–40℃ (not including rain, wind or other extreme weather.)

High Tension Line

Airport



Interference

Rain

6.2

(1) Keep batteries fully charged
(2) Install propellers properly
(3) Insert Micro–SD card for pictures and videos
(4) Check if motors work well after binding.

7.APP Flight

7.1 Connect the quadcopter with App
(1).Power on the quad;
(2).Search for WI–FI on devices:
For iPhone or iPad, please select【 Settings 】>Wi–Fi;
For Android system,please select【 Settings 】>WLAN> WI–FI.
(3).Click Hubsan_h507a_XXXXXX,and password is 12345678.The passwordcan’t be changed by user.
(4).Connection completed
(5).Open X–Hubsan APP, choose Hubsan H507A to enter into the user interface for flight.

NOTICE：
For safety,please don't use the smart device for other purposes while it is connecting with Hubsan App.
If you want to control the quad with other devices, please restart the quad.

7.2 Compass Calibration

Compass calibration is required for the first use, otherwise the quad can't work properly.

Do not calibrate the compass in a strong magnetic field to avoid interference. Keep calibrating the compass regularly to make sure the quad fly in good condition.

(1).Please follow the instrucitons on APP;

(2). Calibration is completed when the calibration instructions disappear and the APP shows the Operation interface.

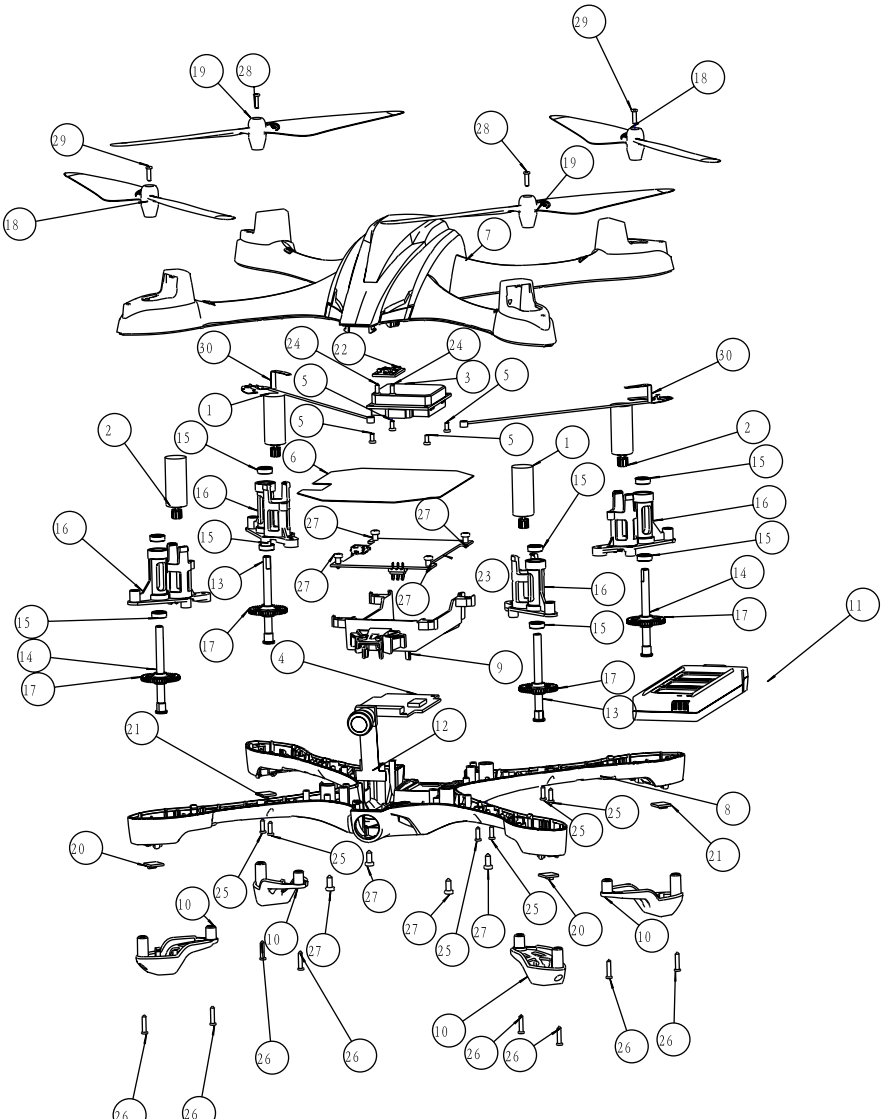
7.3 Map Mode

Click to shift between Camera mode and Map mode.

7.4 Basic Flight

Please check the help tips on APP for more details.

EXPLODED VIEW



序号	名称	数量
01	H502S Motor B	2
02	H502SMotor A	2
03	GPS	1
04	5.8 GHz Transmission Module	1
05	Screw	4
06	Signal Isolation Membrane	1
07	Upper Body Shell	1
08	Lower Body Shell	1
09	Battery Compartment	1
10	Lampshade	4
11	Li-Po Battery	1
12	Camera Module	1
13	Motor Shaft B	2
14	Motor Shaft A	2
15	Shaft Sleeve	2
16	Motor Holder	4
17	Rotary Gear	4

序号	名称	数量
18	Propeller A	2
19	Propeller B	2
20	Blue LED	2
21	Red Led	2
22	Compass Module	1
23	Main Control Board	1
24	Screw	2
25	Screw	8
26	Screw	8
27	Screw	8
28	Screw	2
29	Screw	2
30	wifi Antenna	2

H507A TROUBLESHOOTING

1. No GPS Signal !

Be sure it's for outdoors flight, and the flight environment should be open without tall buildings.

2. Altitude Hold & Positioning not work!

Check if the quad is with more than 6 GPS satellites or not.

3. Can't take pictures and videos!

① Check if the Micro-SD card is inserted or not;

② Check if the Micro-SD card is formatted correctly or not (Format the Mirco-SD card before use, if the Micro-SD card is with FAT32, the card should be Class 4 or Class 4+)

4. Can't fly back to Home Point!

Be sure the GPS satellites are more than 6 before flying.

5. GPS signal lost!

Check if there is any interference to quad or not, for example: high-tension cables, radio tower.

6. The quad or video shakes while flying

① Check the propellers, replace propellers if there is any broken or deformed;

② Check the screws on quadcopter are fixed in place or not;

③ Check the motor shaft is broken or not.

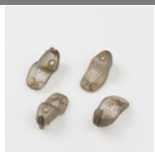
7. No Wi-Fi Connection

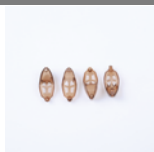
Restart the quad.

H507A SPARE PART CHART

H507A-01
Body Shell

H507A-02
Lamp Base A/B
Transparent yellow


H502C-02
Lamp Base A/B
Grey


H507D-02
Lamp Base A/B
Brown

H502C-03
Screw

H507A-03
Propeller A/B
Yellow

H502S-03
Propeller A/B
White

H502E-03
Propeller A/B
Red

H507D-03
Propeller A/B
Orange

H502-05
Motor A

H502-06
Motor B

H507A-04
Motor Holder Grey

H502-07
Motor Holder

H502-08
Shaft Sleeve

H502-10
Motor Gear B

H502-11
Motor Shaft

H502-12
LED Kit

H507A-05
2.4G RX

H507A-06
Camera Module

H501A-05
GPS Module

H501S-13
Compass Module

H507A
Li-Po Battery

H502C-08
USB Charger

H502-19
Screwdriver

H502-20
Protection

HT005 Repeater

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.

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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.
Made in China

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

WARNING
HAZARDOUS MOVING PARTS KEEP FINGERS AND OTHER BODY PARTS AWAY.

www.HUBSAN.com

SHENHEN HUBSAN INTELLIGENT COMPANY LIMITED