

H216A X4 STAR PRO

《H216A Quick Start Guide》

Version 1.0

APP Download

X-Hubsan APP Download

Users will need the X-Hubsan app to operate this aircraft. Please download X-Hubsan from the App Store (iOS) or Google Play (Android).



iOS X-Hubsan Download

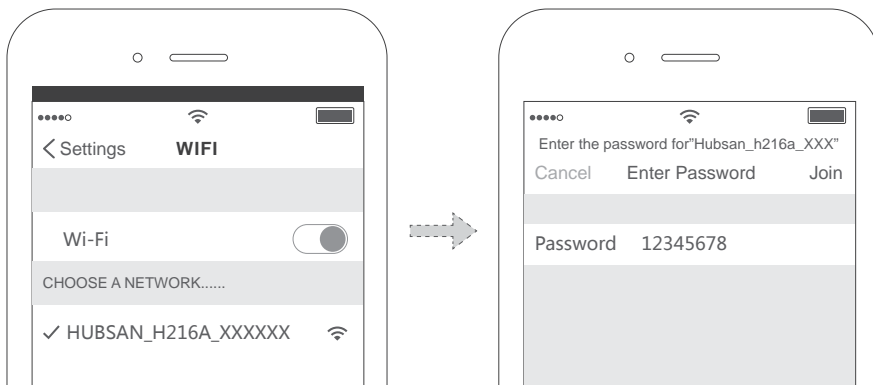


Android X-Hubsan Download

The first flight configuration: aircraft + mobile device (phone/tablet)

Step 1

Download the X-Hubsan APP. After the APP is fully installed, connect the aircraft to its battery. Go to your mobile device's WIFI settings and select the H216A's WIFI signal.

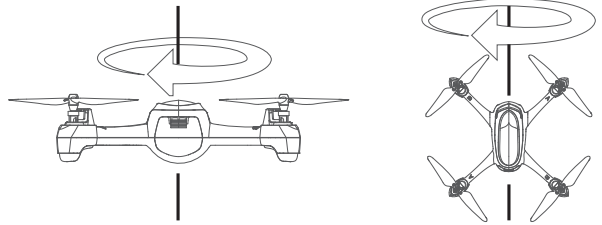


Name: HUBSAN_H216A_XXXXXX

Password: 12345678

Step 2

Compass calibration: Please follow the app's prompts to calibrate.



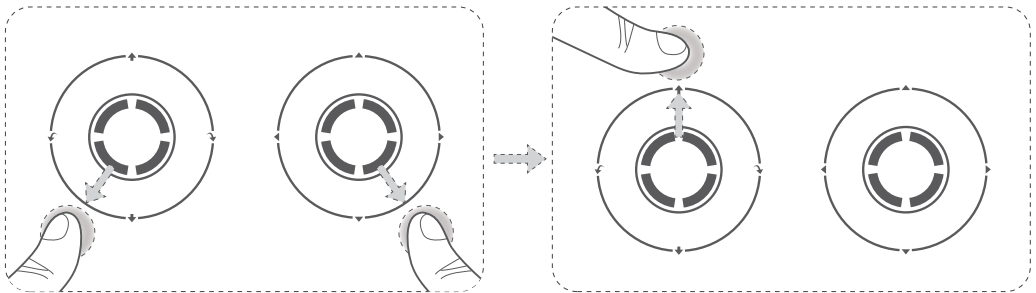
Step 3

Takeoff: (two ways; see directions below)

Please begin flight only when you have 6 or more GPS satellites. Waypoint/Return to Home/Orbiting/Follow Me modes are then accessible. Note: GPS cannot be accessed indoors.

a) 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 below figure. Slowly push the throttle stick up; the aircraft will ascend and takeoff.



Start the motors

Push the Throttle (M2)

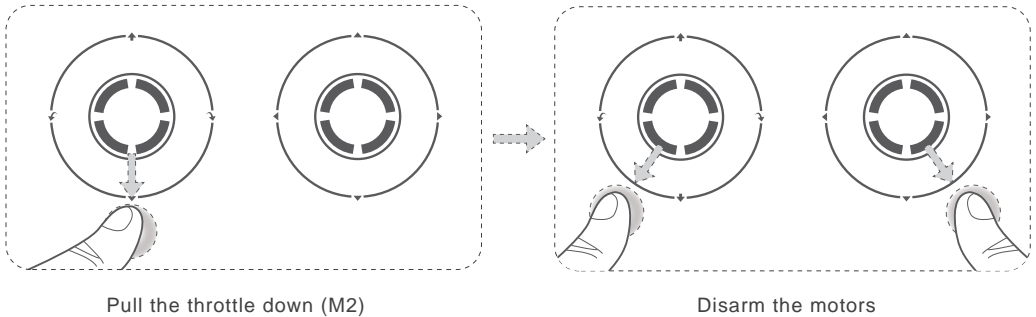
b) Automatic takeoff: Tap the Auto Takeoff key and the aircraft will take off and hover at a height of around 2 meters. Note that the Auto Takeoff key will turn into an Auto Land key after the aircraft begins to fly.



Step 4

Landing: (three ways; see directions below)

1) Manual landing (with the virtual joysticks): Slowly pull the throttle down until the copter has completed its descent to the ground. Disarm the motors by simultaneously pulling both sticks diagonally down-out (below). When the motors have completely stopped, release the joysticks.



2) Tap the Auto Land icon and the aircraft will slowly descend to the ground. (Figure 1)

3) Tap the Return to Home icon. You can configure the landing point- choose for the copter to land at the takeoff point or at the location of your mobile device. (Figure 2)

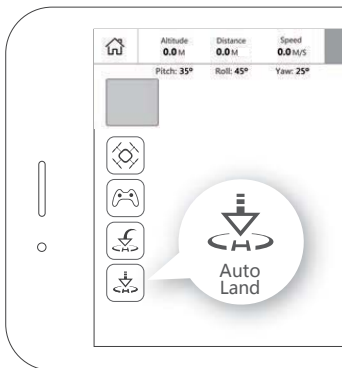


figure 1

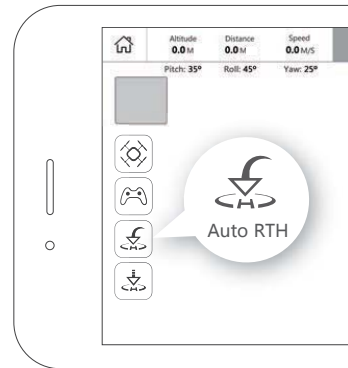


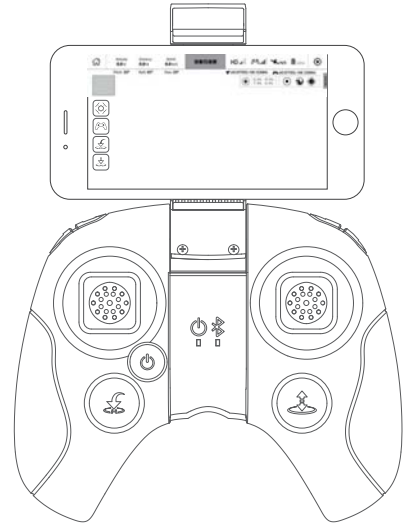
figure 2

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.

To ensure safe flight, do not use your mobile device for other purposes or pair your unit with another mobile device during operation. If you wish to use another device to fly the aircraft, please power the unit off before reinitiating a new pairing.

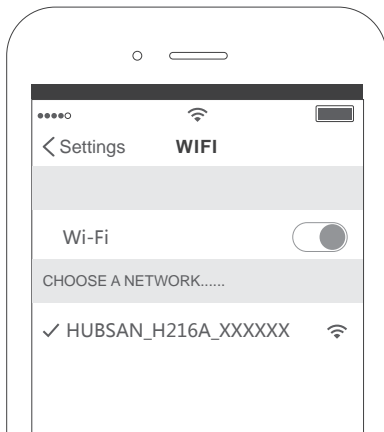
The second flight configuration: Aircraft + HT009 Transmitter+ Smartphone

Users may fly in Mode 1 (right hand throttle) or Mode 2 (left hand throttle) with the remote control. This manual will introduce flight in Mode 2. The left joystick will control the height and the rotation; the right joystick controls the forward, backward and leftward flight direction of the aircraft. Experience real-time video transmission through the X-Hubsan app on a mobile device equipped with a high definition screen.

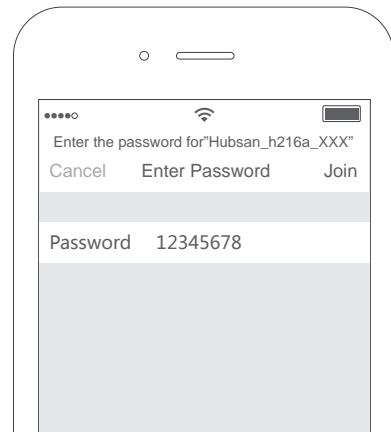


Step 1

Go to your mobile device's WIFI settings and select the H216A's WIFI signal.



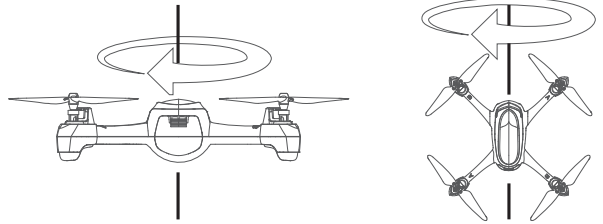
Name: HUBSAN_H216A_XXXXXX



Password: 12345678

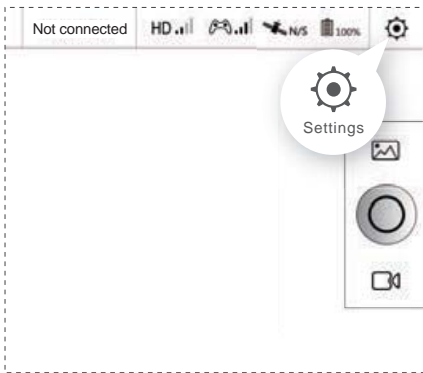
Step 2

Compass calibration: Please follow the app's prompts to calibrate.

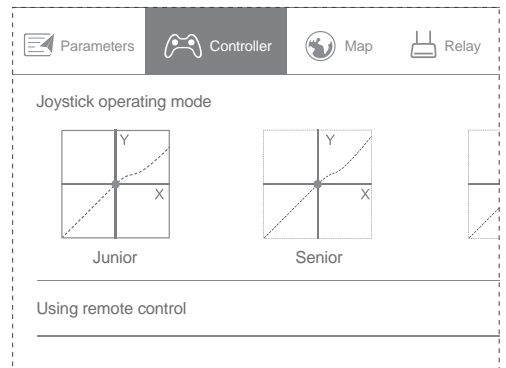


Step 3

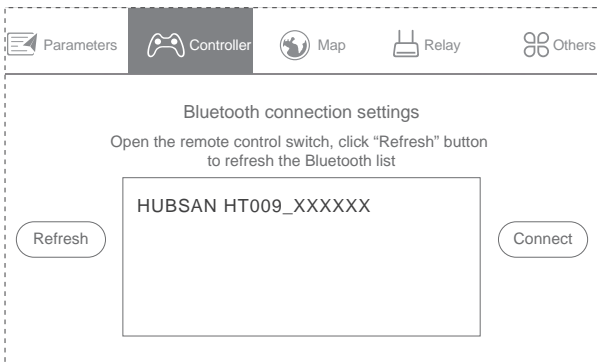
Power the transmitter on; pair the mobile device and transmitter on the Bluetooth menu.



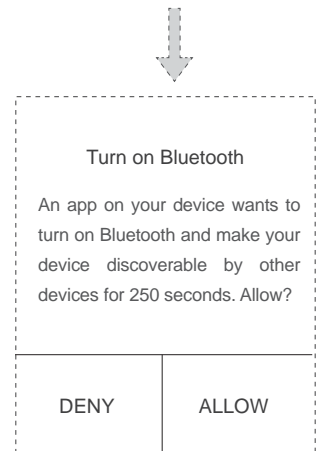
1. Enter the main app interface and tap the Settings cog on the upper righthand corner.



2. Tap "Controller" and then "Using remote control".



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



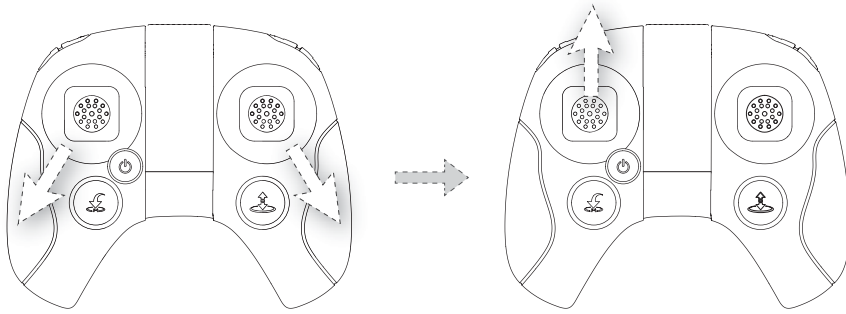
3. The device will request permission to use Bluetooth. Tap "Allow" to continue.

If the Bluetooth connection is successful, the prompt "Bluetooth connection successful" will appear. The HT009 remote control will beep and its Bluetooth indicator will now stay solidly lit.

Step 4: Takeoff (two options)

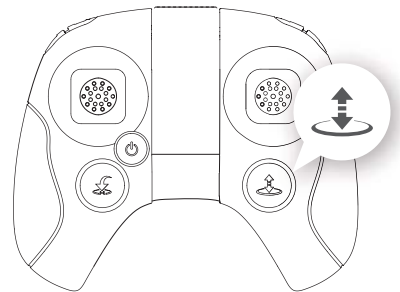
a) Manually takeoff

Simultaneously pull the transmitter joysticks diagonally down-out to arm the motors. Pull the throttle upwards (slowly and gently) to takeoff (as shown in the side figure).



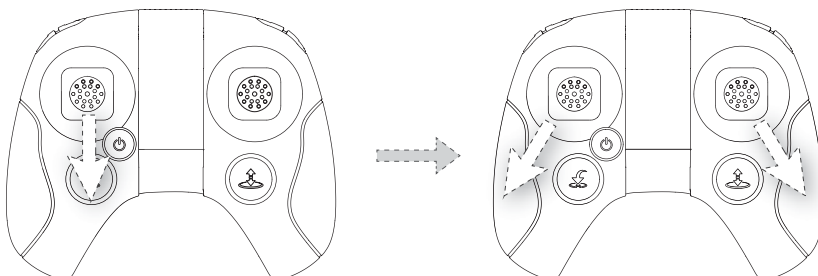
b) Auto Takeoff

Please confirm that conditions are safe for take-off. Then, long press the Auto Takeoff key and the aircraft will automatically take off, maintaining a height of around 2 meters. Note that when the aircraft is airborne, the Auto Takeoff key will become an Auto Land key.

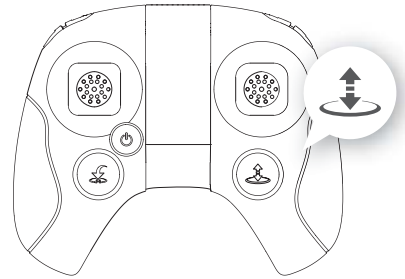


Step 5: Landing (3 options)

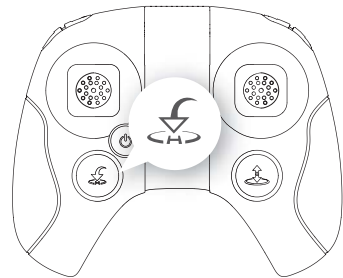
a) Manual landing: Slowly and gently pull the throttle joystick down until the copter has completed its descent on the ground. Simultaneously pull the transmitter joysticks diagonally down-out to disarm the motors (as shown in the below figure).



b) Auto Land: Please confirm that conditions are safe for a landing. Then, long press the Auto Land key. The aircraft will descend automatically, land and disarm. (see side figure)



c) Return to home: Long press for the Return to Home key for 1.5 seconds and the quadcopter will perform a Return to Home. The flight control system will command the aircraft to return to its designated "home" point. (see side figure)



High speed propellers are very dangerous. Please keep the aircraft away from people, animate and inanimate objects.

Keep the aircraft under control at all times while the motors are still running.

Do not disarm during flight. The motors will stop in midair, causing the aircraft to fall and other such hazards. When disarming, wait until the motors come to a complete stop before releasing the joysticks.

H216A Frequently Asked Questions

1. Cannot arm the drone's motors/the drone's motors will not start

Please confirm that 1) the compass has been calibrated and 2) the aircraft has 6 or more GPS satellites.

2. 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.

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. Aircraft/video feed is shaky

- ① Check if the aircraft propellers are deformed or broken. Please replace them.
- ② Check that all aircraft body screws are firmly in place.
- ③ Check whether any motor shafts are broken. Motors must be replaced if the shafts are broken.

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

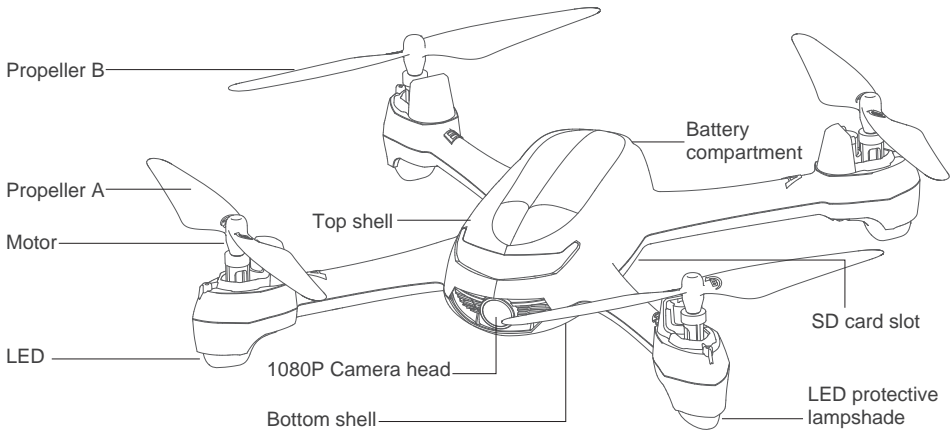
- ① Restart the aircraft.
- ② If you want to use the relay and the phone, aircraft are already bound, power the aircraft off and exit the X-Hubsan app. Start from page 4 of this manual to re-connect to the aircraft with the relay.

7. How to retrieve the aircraft when unit has been lost

Record or take a picture of the aircraft's GPS coordinates on the smartphone screen. Then locate the aircraft using the coordinates.

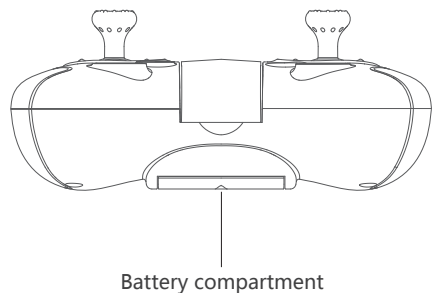
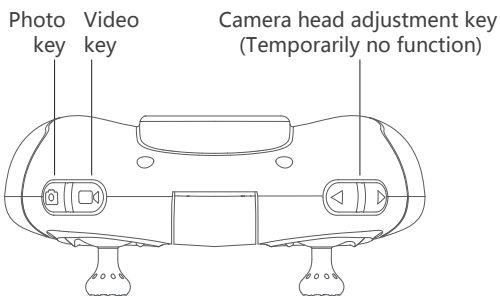
Getting to know your H216A

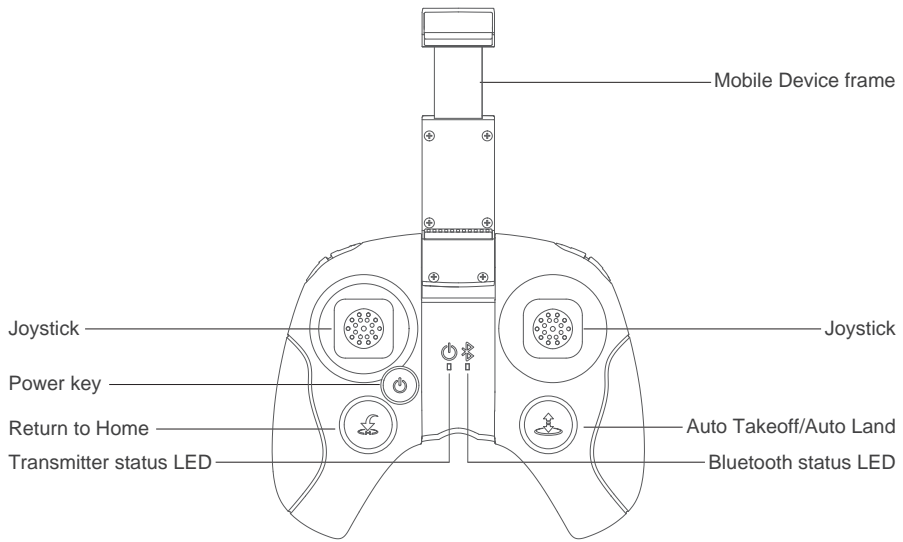
Thank you for purchasing a HUBSAN product. The H216A is an easy to fly aircraft capable of a variety of flight functions. It is equipped with a full-function remote control. Please read and follow the manual carefully for proper operation and use. Be sure to keep the manual as important reference for future routine maintenance and operational information. Approximate aircraft weight: 162g (includes propeller guards, propellers and battery)



Getting to know your HT009

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.

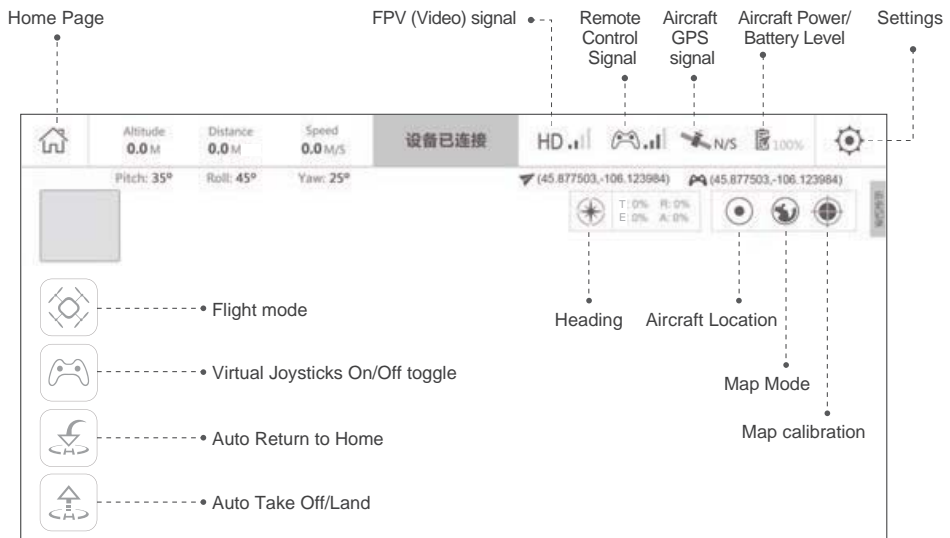




Getting to know the X-Hubsan APP

X-Hubsan is a flight control APP 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 (recommended flight distance control is 100 meters).

Please download the X-Hubsan APP for free via the App Store or Google Play.



Appendix

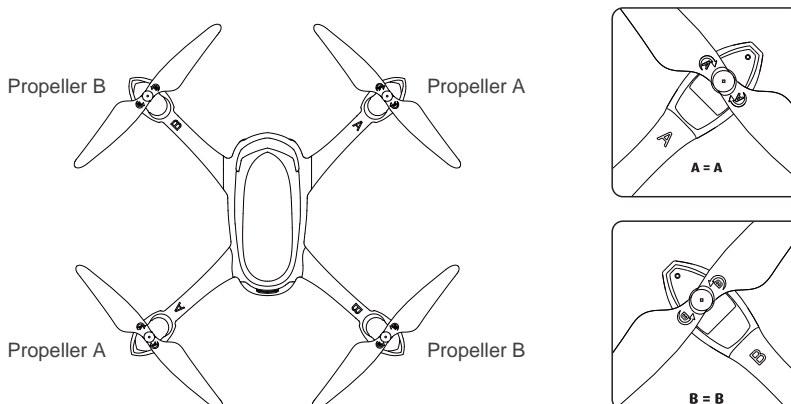
1. Aircraft LED indicators

H216A 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 in vertical pairs, alternately
Horizontal Calibration	All 4 LEDs flash simultaneously
Flight Mode	All 4 LEDs are solidly lit
Return to Home	Blue LEDs (fore) are solidly lit; red LEDs (rear) will flash slowly
Low Power	Blue LEDs (fore) are solidly lit; red LEDs (rear) flash rapidly
How to turn off the LEDs	When recording and/or taking pictures, the throttle's vertical trim button serves as an on/off toggle for the LEDs
Flight control signal status	When the flight control signal is lost, the rear LEDs will stay solid while the fore LEDs will slowly flash. When the flight control signal is stable and connected, the LEDs will be solidly lit.

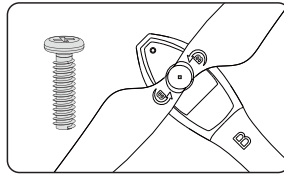
2. The Propellers

The X4 aircraft uses 5.3-inch propellers. Each is marked with either an A or a B. Please replace propellers if they are damaged.

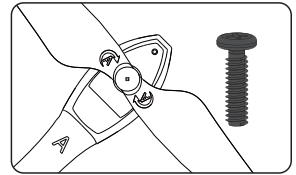


Note

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

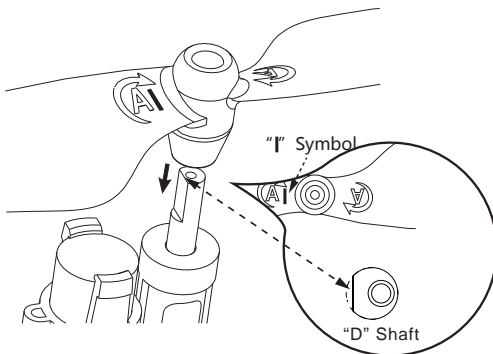


Propeller B

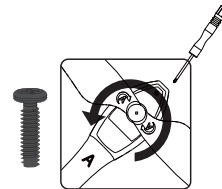


Propeller A

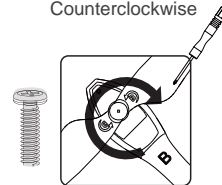
1) Installation: Before installing propellers for the first time, please check that each Propeller A is matched with motor A and each Propeller B is matched with motor B. Align the "I" with the flat side of the "D" shaped motor shaft (Figure 1). Then use the provided screws and screwdriver to secure 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.



<Figure 1>

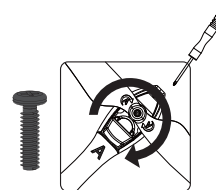
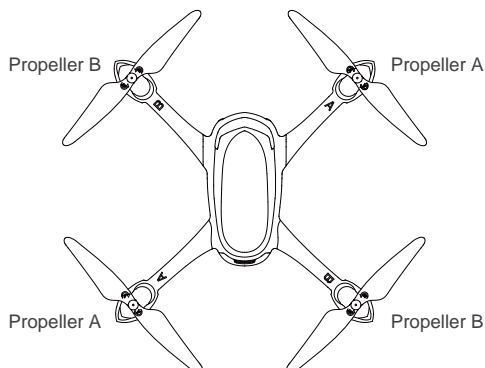


Counterclockwise

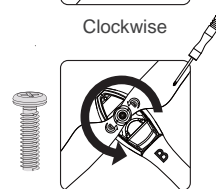


Clockwise

2) Removal: If propellers need to be changed, please uninstall as shown below with a screwdriver. Propeller A's are paired with motor A shafts and are untightened clockwise. Propeller B's are paired with motor B shafts and are untightened counterclockwise.



Clockwise



Counterclockwise



Notice: Read the instruction manual carefully before use.
Propellers may cause injury; caution!

Warning: Do not leave the quadcopter charging unattended. Always disconnect the quadcopter from the charger immediately after charging is complete.

This is not a toy, not suitable for children under 14.

www.HUBSAN.com

Product Name: X4 STAR PRO

Company: Shenzhen Hubsan Technology Co., Ltd.

Address: 13th Floor, Block 1, Tower C, Software Industry Base, Xuefu Road,
Nanshan District, Shenzhen, China.

Factory: Dongguan Tengsheng Industrial Co., Ltd.

Address: A22# Luyi Street, Tianxin Village, Tangxia Town, Dong guan, China.

Hotline: 0769-82776166 (China)



User Manual

Remark:

1) The remote (HT009) Using Bluetooth, other information is as follows:

Product: Hubsan Bluetooth Transmitter

Model No.: HT009

FCC ID: 2AN75-T009TX

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.

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 dealer or an experienced radio/TV technician for help.

This modular complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

2) The drone (H216A) Using WIFI, other information is as follows:

Product: HUBSAN X4 Desire Pro

Model No.: H216A

FCC ID: 2AN75-216ARX

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.

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 dealer or an experienced radio/TV technician for help.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator & your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.