JJPRO

AGE 14+

HAX
ENTRY LEVEL AERIAL PHOTOGRAPHY DRONE

*Please read this manual carefully before operation and keep it properly for future reference.

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FLIGHT SAFETY NOTES

Calibrate the compass before the first flight and do it again when you travel to new location from the initial calibration location. This will help improve the positioning precision and flight stability.

①The product is intended for users who have experience of aeromodelling and are 14 years of age and above.
②Please keep distance from the drone when it is flying, particularly away from the rotors or motors that are spinning at high speed.
③Please find a wide open field that is legal to fly in, and properly operate the drone based on your own state-of-mind and skills.
④Please read the instruction of pre-flight environment carefully and fly in suitable environment.
⑤Please go through the user manual, and strictly abide local laws and regulations before flights. Do not fly where is not allowed without a permit.

DISCLAIMER

Please read this disclaimer carefully before using the product. By using this product, you accept and agree to the contents of this disclaimer.
①The product is only intended for users 14 years of age
②Users shall strictly follow the instructions of the user manual and learn how to fly a drone correctly otherwise it might cause damages to the users or the surrounding people and environment.
③Please find a wide open field that is legal to fly in and abide local laws and regulations. We will not be held responsible for any losses or damage occurring as a result of using or failing to use the product. For latest disclaimer in full details, please visit JJRC official website www.jjrc-tech.com.
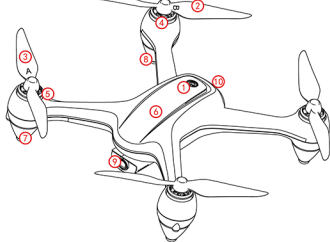
1

KNOW YOUR HAX

With 2.4G frequency band for long remote control distance, HAX allows multiple flights at the same time without any interference. User can control it to fly, hover and take photos/videos with remote control or take photo/video with APP and WIFI connection on smart phone.

① Power Switch (Short Press to Turn On/Long Press for 2 Seconds to Turn Off)
② Forward-curved Propeller (B)
③ Backward-curved Propeller (A)
④ CW Motor (Reverse Thread)
⑤ CCW Motor (Standard Thread)
⑥ Upper Casing
⑦ Navigation Indicator Light (Blue)
⑧ Aircraft Status Indicator Light (Green)
⑨ Camera Module (Detachable)
⑩ Battery (Detachable)

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KNOW YOUR REMOTE CONTROL
1.Operation Board of Remote Control
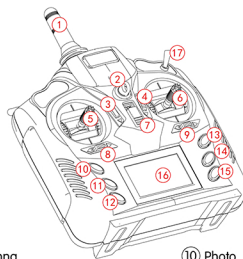
① Antenna
② Strap Hook
③ Throttle Fine-tuning (Not supported)
④ Forward/Backward Fine-tuning(Not supported)
⑤ Left Joystick
⑥ Right Joystick
⑦ Power Switch
⑧ Left/Right Rotate Fine-tuning (Not supported)
⑨ Electric Fence Switch
⑩ Photo
⑪ Video
⑫ Speed Control
⑬ One-Key Start (Long Press)
⑭ One-Key Landing (Long Press)
⑮ Headless Mode
⑯ Screen
⑰ Mode Switch

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2.Remote Control Display Screen
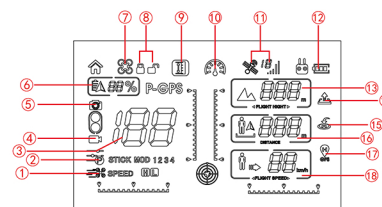
① Speed Mode
② Joystick Mode
③ Throttle Rubber Range
④ Video Mode
⑤ Photo Mode
⑥ Drone Battery Capacity
⑦ Fence Mode
⑧ Lock
⑨ Indoor Altitude Hold Mode
⑩ Heddless Mode
⑩ Numbers of GPS Satellites
⑪ Remote Controller Battery Capacity
⑫ Flying Height
⑬ One-Key Start
⑭ One-Key Landing
⑮ Flying Distance
⑯ Outdoor GPS Mode
⑰ GPS Mode (Standing icon) Return To Home Mode (Flashing icon)
⑱ Flying Speed

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## BATTERY ASSEMBLING AND CHARGING
1.Battery Assembling for Remote Control
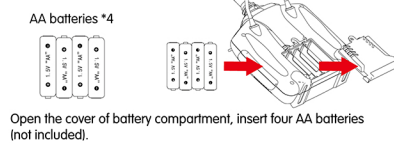
AA batteries *4

Open the cover of battery compartment, insert four AA batteries (not included).

⚠ Notes:
1. Ensure the polarity symbols on the batteries match the symbols inside the battery compartment.
2. Do not mix new and old batteries.
3. Do not mix different types of batteries.

2.Battery Charging for Drone
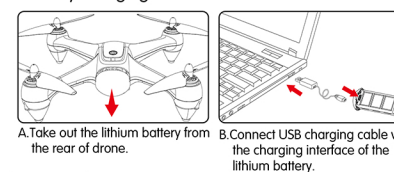
A.Take out the lithium battery from the rear of drone.
B.Connect USB charging cable with the charging interface of the lithium battery.

⚠ Notes:
Blue light turns on when charging and turns off when full charging completes. It takes about 3 hours to charge up if using a 5V/2A USB charger. Or takes about 3-5 hours to charge up if using normal charger. (The charging time is different depending on the current)

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3.Propellers Installation

①Install the forward-curved propeller B on the CW motor (⟳)and the backward-curved propeller A on the CCW motor(⟲).
②Ensure the propeller are right installed and fixed.

Forward-curved Propeller B (⟳)   FRONT   Backward-curved Propeller A (⟳)

Backward-curved Propeller A (⟲)   Forward-curved Propeller B (⟲)
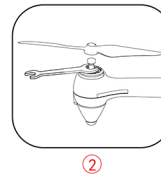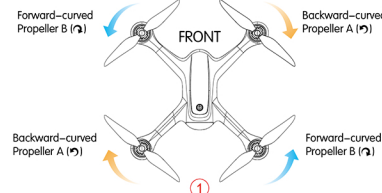
⚠ Notes:
When installing or dismantling the propeller, please do not exert force on the propeller to avoid distortion.
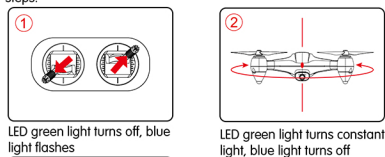
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4.Aircraft Status

①Indoor Altitude Hold Mode: Switch on "Indoor Altitude Hold" on the upper-right corner, move the joystick to the top, both of the front and tail lights would turn on.
②Outdoor GPS Mode: Switch on "Outdoor GPS" on the upper-right corner. Move the joystick to the middle position, If both of the blue and green lights start to flash, the GPS strength is too weak to calculate locations. Please try again until at least 8 GPS satellites operating and the front of blue lights would turn on.
④Return To Home Mode: Switch on "Return To Home Mode" on the under-right corner, move the joystick to lower position, and the drone would enter Return To Home Mode when the green light turns to slow-flashing light.
⑤Low Battery: Be aware of low battery when blue and green lights turn to quick-flashing lights. Keep the drone within your sight.

DRONE LIGHTS AND AIRCRAFT STATUS:

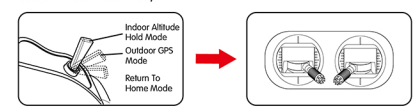| Modes	Navigation Indicator Light (Blue)	Navigation Indicator Light (Green)
Indoor Altitude Hold Mode	Constant Light	Constant Light
Indoor GPS Mode (Positioning)	Constant Light	Flashing Light
Indoor GPS Mode (Non-positioning)	Flashing Light	Flashing Light
Headless Mode	Quick-Flashing for 3 Times	Quick-Flashing for 3 Times
Return To Home Mode	Constant Light	Slow-Flashing
First Level Voltage	Slow-Flashing	Slow-Flashing
Second Level Voltage	Quick-Flashing	Quick-Flashing
Remote Control Disconnected	Quick-Flashing	Quick-Flashing
Unprepared for Flight	Slow-Flashing by Turns	Slow-Flashing by Turns

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5.Compass Calibration

①Pull the left and right joysticks at the same time (shown in figure ①) and keep still until the blue light starts to flash and the green light turn off.
②Horizontally flip the drone for a few circles until the green light turns to constant light and the blue light turns off.
③Let the nose of the drone face upward and flip the drone for a few circles until all lights turn on. If not successful, please repeat the above steps.

①   ②

LED green light turns off, blue light flashes   LED green light turns constant light, blue light turns off

③

Front

Ground

LED green and blue lights turn on

⚠ Notes:
1.Calibrate the compass before the first flight and do it again when you travel to new location from the initial calibration location. This will help improve the positioning precision and flight stability.
2.Please calibrate the compass again in circumstances like spinning or yaw.
3.Please calibrate the compass in outdoor spacious areas and keep away from the interference of electromagnetism.

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6. Lock/Unlock Motor

①Unlock Motor
After pairing, switch on "Indoor Altitude Hold" or "Outdoor GPS" (as shown below) and pull the left and right joysticks inward and keep still. When the front and tail lights start to flash twice, the motor unlocks and starts to rotate slowly.

②Lock Motor
Option One: At the landing, pull back the left joystick to the lowest position and keep still for 6 seconds until the motor stops rotation.
Option Two: Push the left and right joysticks outward at the same time and keep still until the front and tail indicator lights flash twice to successfully lock the motor.

⚠ Notes:
1. Unlock the motor under outdoor GPS mode or indoor altitude hold mode when there is GPS positioning signal.
2. Unlock the motor under indoor altitude hold mode when there is no GPS positioning signal.
3. The motor would automatically lock again if not started for 6 seconds after unlocked.

Option One   Option Two

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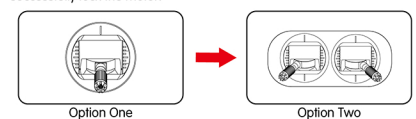
FLY WITH REMOTE CONTROL
1.Start the Drone

①Install the drone battery and put the drone on the plain ground.
②Firstly switch on the power of the remote control and then the power of the drone.
③When the blue slow-flashing light turns to constant light, the drone has been started and users can start to operate. After unlock the motor under outdoor GPS mode, press "One-Key Start", and the drone would take off and ascend to the altitude of 3 meters above the ground.
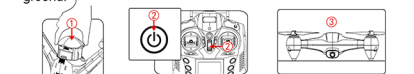
2.One-key Start
In the outdoor GPS mode, unlock the motors and make it rotate slowly. Long press 1 second for "One-key Start " button, the drone will fly up to about 3 meters above the ground surface automatically.
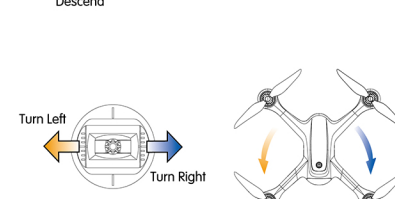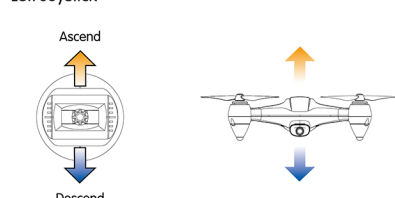
3.One-key Landing

Long press "One-Key Landing", the drone would land on at its own.
Ground

⚠ Notes:
1. Ensure that the GPS position signal is well received (blue light turns to constant light).
2. Control the drone to fly forward, backward, leftward and rightward during landing. Push up the throttle joystick to turn off the mode.
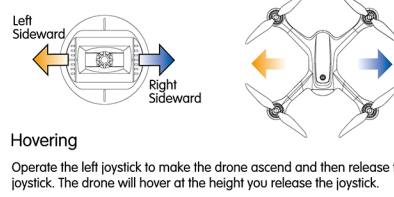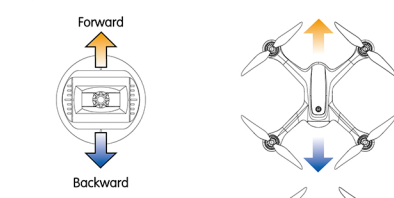3. Ensure the landing ground is plain, away from crowds or other barriers.

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4.Flying

The left joystick is used to control flying height and left and right turning, while the right joystick is used to control forward, backward and sideward flights.
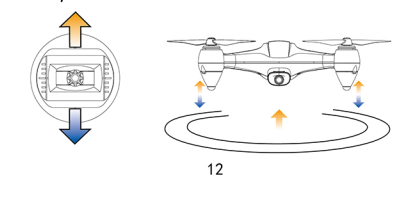
Left Joystick

Ascend   Descend   Turn Left   Turn Right

Right Joystick

Forward   Backward   Left Sideward   Right Sideward

Hovering
Operate the left joystick to make the drone ascend and then release the joystick. The drone will hover at the height you release the joystick.

Left Joystick

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5.Headless Mode

Leftward   Forward   Backward   Rightward

Press this button, the drone would enter Headless Mode, the icon on the LCD screen will turn on and press again to turn off Headless Mode, the icon on the LCD screen will turn off.

Takeoff Point

⚠ Notes:
1. Ensure that the GPS position signal is well received (at least 8 satellites operating).
2. Ensure no barriers outstand the flying height along the way of the flight path.
3. Please turn off Headless Mode when the drone returns and approaches the takeoff point.

6.Fence Mode
Fence Mode is activated by default when starting the drone. Push the fine-tuning button leftward and rightward for 3 seconds to turn off Fence Mode, and the buzzer makes a long sound also the icon on the LCD screen lights up, then push the same button leftward again for 3 seconds to turn on Fence Mode again.

⚠ Notes:
1. Turn off the Fence Mode if you are a beginner.
2. Please do not fly in no-fly zone.
3. Please control the flying height within the altitude of 100 meters and the range of 300 meters.

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7.Indoor Altitude Hold

Indoor Altitude Hold Mode   Outdoor GPS Mode   Return To Home Mode   Switch on "Indoor Altitude Hold"   Indoor Altitude Hold

Ground

⚠ Notes:
1. Ensure that the drone is placed on the plain ground and the front and tail lights turn to constant lights.
2. Please do not fly in outdoor environment under this mode.
3. Beginners should be careful when operating under this mode.

8.Outdoor GPS Mode

Indoor Altitude Hold Mode   Outdoor GPS Mode   Return To Home Mode   Switch on "Outdoor GPS Mode"   Outdoor GPS Mode

Ground

⚠ Notes:
1. Ensure that the GPS position signal is well received (blue light turns constant light and green light turns to slow-flashing light).
2. Under Outdoor GPS mode, user can control functions such as positioning, altitude hold and stop, while the drone speed is relatively slow.
3. When the signal of GPS is lost, switch to indoor altitude hold flight mode.
4. Please do not use Outdoor GPS in narrow lanes or around tall building.

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9.Return to Home Mode

Indoor Altitude Hold Mode   Outdoor GPS Mode   Return To Home Mode   Switch on "Return To Home Mode"   Return To Home Mode
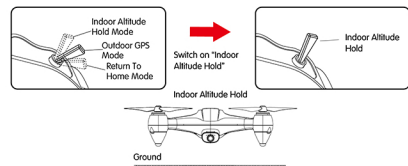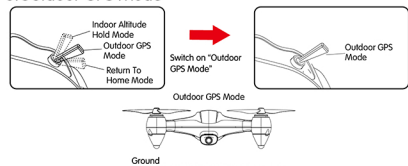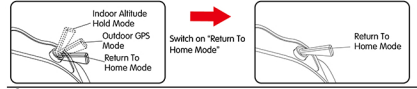
⚠ Notes:
1. Ensure that the GPS position signal is well received (at least 8 satellites operating).
2. Ensure no barriers outstand the flying height along the way of the flight path during return before switching on "Return To Home Mode".
3. Ensure the takeoff point is away from crowds and other barriers. Switch on "Return To Home Mode" and the drone would automatically return to home.

10.Intelligent Return To Home Under Low Voltage
The drone would return to home intelligently under low voltage to ensure safe flights. When the voltage is under 20%, the front and tail indicator lights would start to flash as a signal, as well as the signal from the remote control.
A: When the drone is at low voltage and flies at the altitude of over 30 meters, it would automatically return home at the same altitude and then descend.
B: When the drone is at low voltage and flies at the altitude of less than 30 meters, it would ascend to the altitude of 30 meters before returning home and descending.
C: If the drone flies too far from the controller or the drone's control signal is interfered by the electromagnetic in mid-flight, the drone would lose signal, which then triggers Return To Home to return the drone back to the home point.
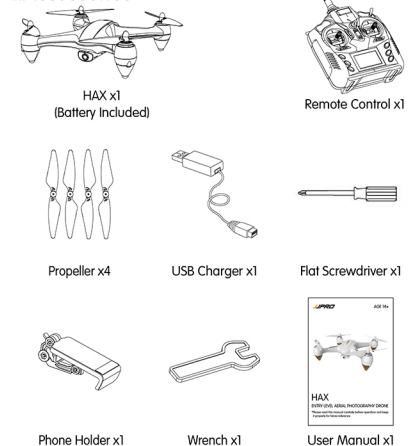
A: Altitude Difference between Home Point and →30 meters
B: Altitude Difference between Home Point and →30 meters

Ascend   Home Point

⚠ Notes:
1. Ensure at least 8 satellites operating (blue light turns to constant light).
2. Please do not touch or press other buttons after switching on "Return To Home Mode".
3. Please immediately switch on "Return To Home Mode" to return the drone at the sign of low voltage.

11.Return to Home Automatically
①When the drone reaches the limit of the electronic-fence, Return To Home is triggered and the drone would automatically fly back to the home point.
②When the drone's control signals are disrupted in mid-flight, Return To Home is triggered and the drone would automatically fly back to the home point.
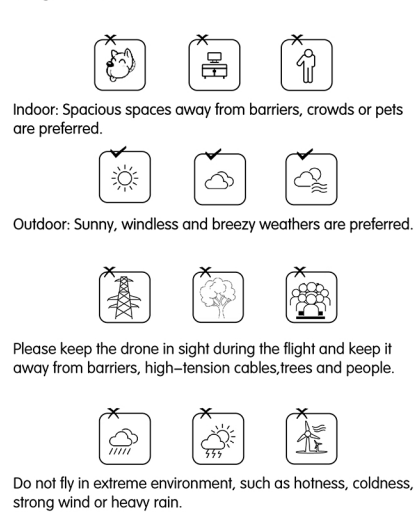
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ADDITIONAL REMARK
1.Accessories

HAX x1 (Battery Included)   Remote Control x1

Propeller x4   USB Charger x1   Flat Screwdriver x1

Phone Holder x1   Wrench x1   User Manual x1

⚠ Notes:
Please check the number of accessories carefully (as shown above). Please provide proof of purchase and contact the store for replacement if any missing parts.

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2.Flight Environment

Indoor: Spacious spaces away from barriers, crowds or pets are preferred.

Outdoor: Sunny, windless and breezy weathers are preferred.

Please keep the drone in sight during the flight and keep it away from barriers, high-tension cables,trees and people.

Do not fly in extreme environment, such as hotness, coldness, strong wind or heavy rain.

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3.Battery Instructions

• There is a certain risk when using lithium battery. It may cause fire, body injury or property loss. Users must be aware of the risks and take full responsibility of using battery improperly.
• If battery leakage occurs, please avoid contacting your eyes or skin with electrolyte. Once it happens, please wash your eyes with clean water and seek medical care immediately.
• Please remove the plug immediately if you sense any peculiar smell, noise or smog.

Battery Charging
• Please use standard 5V USB charger to charge up while avoid using worn or old chargers.
• Do not charge dilatant or outworn battery.
• Do not over charge battery. Please unplug the charger once fully charged.
• Do not charge the battery next to inflammables, such as carpet, timber floor or wood furniture or on the surface of electro-conductive objects. Please always keep an eye on the battery when charging.
• Do not charge battery which not cool down yet.
• The charging temperature should be between 0℃ to 40℃.

Battery Recycling
• Do not dispose the battery as daily rubbish. Please familiarize yourself with the local garbage disposal method and dispose it according to the special requirement.

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4.FAQ

PROBLEMS	CAUSES	SOLUTIONS
Control failure	Not connect with the drone battery.	Connect the brone battery in right way.
	Too strong wind force.	Do not fly in windy days. The performance and the control of the drone will be affected by the strong winds.
Fail to ascend	The rotation speed of main blades is too slow.	Push up the throttle joystick.
	The battery of the drone is not fully charged.	Please full charge the drone.
Landing too soon	The throttle joystick is pulled down too fast.	Pull down the throttle joystick slowly to perform a smooth landing.
Out of control	Beyond the effective controlling distance.	Ensure that the flying distance is within 300 meters.

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JJRC TECHNICAL SUPPORT

Dear Customer,

Thank you for choosing JJRC product. Please visit JJRC official website for more FAQ and information if there is any problem of using our product.

–Product Operation: Please visit JJRC College for tutorial video or user manual.
–Product Features: Please refer to product page description or product brochure.
–After-sale Service: Please refer to conditions and terms of after-sale service.
The final interpretation right belongs to all JJRC.

Should you have any further questions, please visit JJRC Online Feedback and leave your message.

Thank you again for your support!

JIANJIAN TECHNOLOGY CO.,LTD.
www.jjrc-tech.com

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