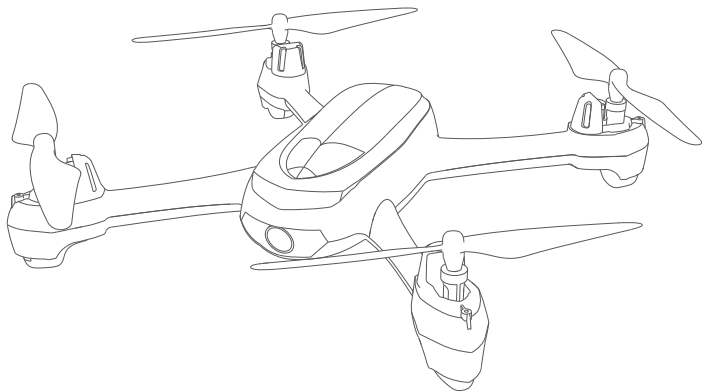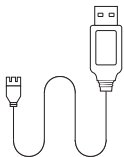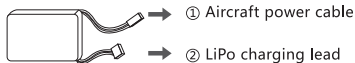# H216A
X4 Desire Pro

V3.0

Quick start guide

HUBSAN®

X-Hubsan App

Download for free by scanning the code on the right or by finding it on the App Store (iOS) and Google Play (Android).

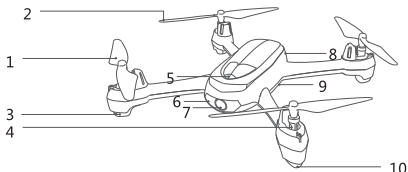**Battery**

① Aircraft power cable

② LiPo charging lead

Use the provided USB charger to charge the battery

# Aircraft component breakdown

1. Propeller A
2. Propeller B
3. LED
4. Motor
5. Body shell (top)
6. Body shell (bottom)
7. 1080p HD Camera head
8. Battery compartment
9. Micro-SD / TF slot
10. LED lamp base

Installing and removing the propellers

① Counterclockwise to install Propeller A
② Clockwise to remove Propeller A
③ Clockwise to install Propeller B
④ Counterclockwise to remove Propeller B
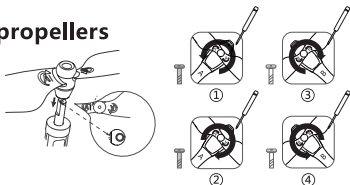
The HT009 Remote Control function introduction (Mode 2)

1. Mobile Device frame
2-1. Throttle / Rudder
2-2. Elevator / Aileron
3. Power
4. Return to Home
5. Auto Takeoff / Land
6. Transmitter status LED
7. Bluetooth status LED
8. Photo
9. Video
10. Camera head adjustment key
0. No function
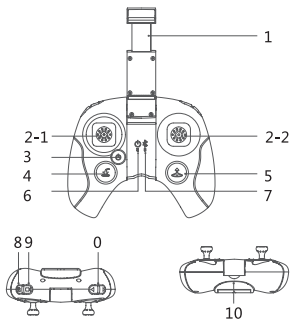
The HT005 Relay introduction

HT005 Overview

The HUBSAN HT005 relay is a wireless signal amplifier. When used to amplify the aircraft WiFi and X-Hubsan APP connection, users can experience increased flight range.

1. Mobile Device Frame
2. Micro USB Input
3. Reset Button
4. Power Switch
5. Battery Level Indicator LEDs
6. Status Indicator LED
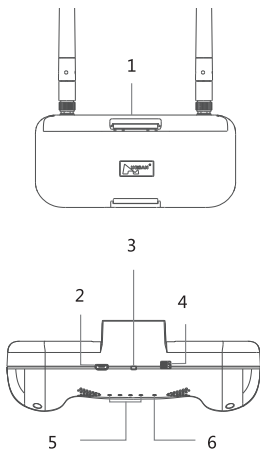
The HT011A Remote Control function introduction (Mode 2)

1. Headless mode
2. Return to Home
3. Photo
4. Video
5-1. Throttle / Rudder joystick
5-2. Elevator / Aileron joystick
6-1. SPORT MODE 0
6-2. SPORT MODE 1
6-3. SPORT MODE 2
7. Binding button
8. LED ON / OFF
9. Power
10. Orbit
11. Follow Me
12-1. Low voltage LED
12-2. Transmitter GPS status LED
12-3. Aircraft GPS status LED
12-4. WIFI status LED
12-5. 2.4G status LED
0. No function
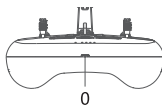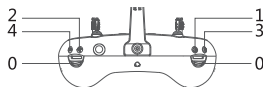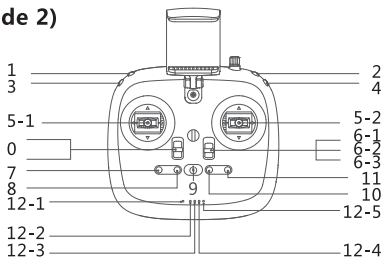
Return to Home (Aircraft Returns to Takeoff Point

1. Mobile Device Frame
2-1. Throttle / Rudder Joystick
2-2. Elevator / Aileron Joystick
3. Return to Home (Aircraft Returns to Takeoff Point
4. Power
5. Auto Takeoff / Land
6. Expert / Normal Mode
7. Power Status LEDs
8. Photo
9. Video
10. Gimbal Adjustment Wheel
11. Charging
12. WIFI Antenna
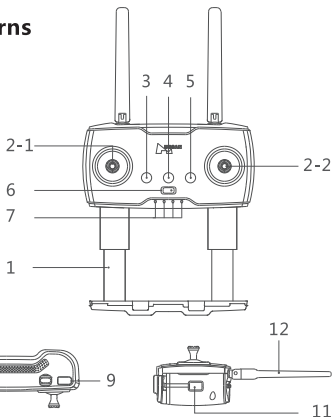
When installing the mobile device, place the device in its dedicated frame and avoid pressing the device's buttons with the frame.

This manual will introduce flight operations in Mode 2.

Pairing devices

WIFI signal: HUBSAN_Model #_XXXXXX
Password: 12345678

Power on the aircraft   →   Connect to WIFI   →   Enter X-Hubsan

### Configuration 1: Aircraft + HT009 Transmitter + mobile device

After pairing all devices, enter the main APP interface and tap the Settings cog on the upper right-hand corner. Tap "Controller" and then "Using remote control" to enter the Bluetooth Connection Settings Menu and bind the transmitter with a mobile device. If the connection is successful, the transmitter will "beep" once.

Configuration 2: Pairing the aircraft+mobile device

Power on the aircraft and initialize X-Hubsan. Then enter the mobile device's WIFI utility to pair the aircraft.

Configuration 3: Aircraft + HT005 / HT011AHT016A Transmitter + Mobile Device

(1) Power on the transmitter / relay. Go to your mobile device's WIFI settings and select the Hubsan_HT005 / HT011A / HT016A_XXXXXX WIFI signal. Password: 12345678
(2) Connect the aircraft to its battery. Run X-Hubsan APP. In the main Settings, select Relay settings then choose "Setup the relay connection to aircraft" option to set up the connection between the aircraft and the relay.
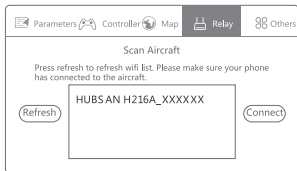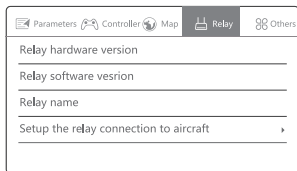
Compass calibration

To calibrate: follow the APP's prompting to complete compass calibration.

Flight

Manual Takeoff / Landing (Mode 2)
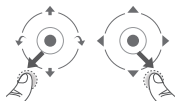
Arming / disarming motors   Pushing the throttle down   Pushing the throttle up
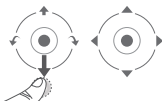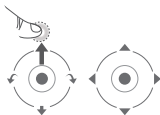
Takeoff: After arming the motors, release the joysticks. Smoothly and slowly pull the throttle upwards to take off.
Landing: Slowly and gently pull the throttle joystick down until the copter has completed its descent on the ground. Disarm the motors. After all motors have come to a complete stop, release the joysticks.

Auto Takeoff / Land / Return to Home

Auto Takeoff   Auto Land   Return to Home

LED Status 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
Horizontal Calibration		All 4 LEDs flash simultaneously
Compass Calibration	Calibrate Compass 1	All 4 LEDs flash clockwise
	Calibrate Compass 2	LEDs flash in vertical pairs, alternately
Flight mode		All 4 LEDs are solidly lit
Low power		Fore LEDs are solid blue and rear red LEDs rapidly flash red
Headless mode		Fore LEDs flash slowly and rear LEDs stay solid
Return to Home		Fore / frontal blue LEDs stay solidly lit and the rear red LEDs flash slowly
Flight control connection status		When the aircraft is not connected to a transmitter or has been disconnected from a transmitter, the fore LEDs will flash blue. Upon connection with a transmitter, the fore LEDs will turn solid

Frequently Asked Questions

1. Aircraft and remote control are not pairing

① Rebind the aircraft and its chosen device(s).

② Check that the aircraft and remote control are both powered on.

2. Cannot arm motors

① Make sure that you have completed compass calibration

② If you are flying indoors, please check the Settings menu to see if the aircraft can takeoff without GPS.

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

Check the surrounding environment for sources of high frequency signal interference.

4. 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.

5. Aircraft / video feed is shaking / shaky

① Check if the aircraft propellers or motor shafts are deformed / broken. Please replace if applicable.

② Check that all aircraft body screws are firmly in place.

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, not suitable for children under 14 years of age

Product name: X4 Desire Pro
Product Standard Number:Q / HBS 001-2017
Vendor: Shenzhen Hubsan Technology Co., Ltd
Address: 13th Floor, Block C, Shenzhen Software Industrial Base,
Xuefu Road, Nanshan District, Shenzhen, Guangdong Province, China
Email:service@hubsan.com

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.

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 aircraft 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.

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 / meth-ods 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.

RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE.

DISPOSE OF USED BATTERIES ACCORDING TO THE LOCAL REGULATIONS.

HAZARDOUS MOVING PARTS KEEP FINGERS AND OTHER BODY PARTS AWAY.

Declaration of Conformity

Hereby, SHENZHEN HUBSAN TECHNOLOGY CO., LTD.,

declares this product is in compliance with the essential requirements and other relevant

provisions of Directive 2014/53/EU. A copy of the original Declaration of Conformity can be

obtained at the following address: 13th Floor, Bldg 1C, SHENZHEN NANSHAN SOFTWARE

INDUSTRY BASE, Xuefu Road, Nanshan District, Shenzhen, China

This product bears the selective sorting symbol for waste electrical and electronic equipment

(WEEE). This means that this product must be handled pursuant to European Directive

2012/19/EU in order to be recycled or dismantled to minimize its impact on the environment. For

further information, please contact your local or regional authorities. Electronic products not

included in the selective sorting process are potentially dangerous for the environment and

human health due to the presence of hazardous substances.

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 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.

CE