Ages 14+
Read the instruction manual carefully

GROUND STATION

INSTRUCTION MANUAL

ITEM NO.:H7000

READING INSTRUCTIONS

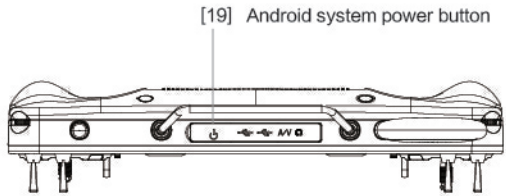
SYMBOL EXPLANATION

No operating ⚠ Important Notice Instruction Explanation, reference

1 GENERAL INTRODUCTION

The software of the Ground Station is named Sunbird--X4 Pro. It is designed to operate in the H7000, the latest Hubsan smart FPV transmitter. The software is compatible with select Android devices. (Please note that not all functions may be available depending upon the device). Having the software built-in ensures that X4 Pro pilots get the best performance from the H7000 transmitter.

The Sunbird software includes a master-control interface, a live video interface, a waypoint interface and a system setup interface. The following instructions will separately introduce the four interfaces.



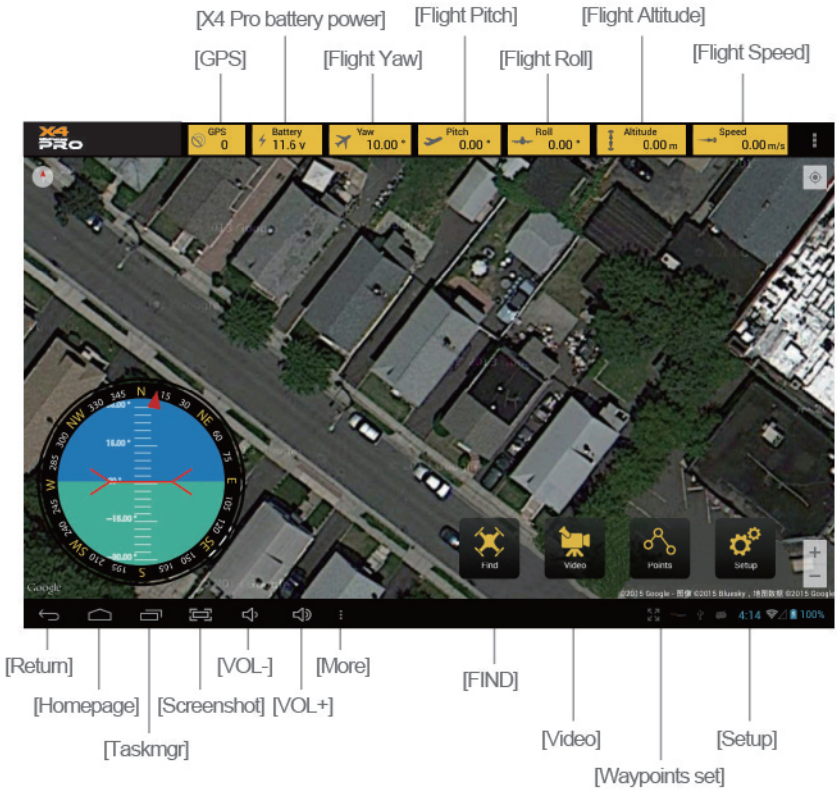
⚠
- By default the Android system will start once the H7000 FPV transmitter is powered on. If pilots want to restart or turn off the Android system but keep the transmitter turned on, press [19], the Android system power button.
- This instruction manual only explains how to fly with the Android system. For full operation instructions, please refer to the ***Hubsan X4 Pro instruction manual***.

©2014 Hubsan
哈博森科技 版权所有

2 INTERFACE INTRODUCTION

2.1 MASTER-CONTROL INTERFACE

Click the X4 Pro logo on the screen to enter into the system. The first interface is the master-control interface, shown here.



[FIND]: Searches the X4 Pro automatically, or displays the X4 Pro in the middle of the screen.

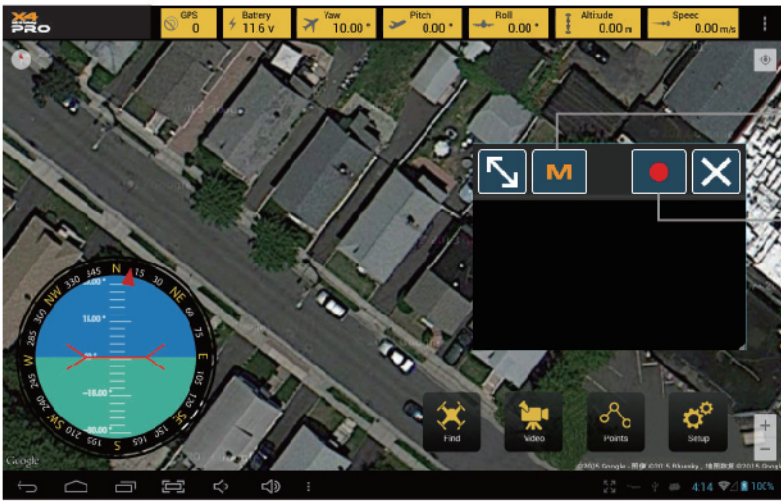
[VIDEO]: Opens a floating window that displays live video from the X4 Pro's HD camera. The window can move, expand, shrink, and close.

[Waypoints set]: Opens the waypoints setup interface.

[Setup]: Opens the setup interface.

©2014 Hubsan
哈博森科技 版权所有

2.2 LIVE VIDEO INTERFACE



[Mode]: Change the camera mode: shoot videos; take photos; play back videos/photos

[Shooting]: Shoot videos/take pictures/play back when in this mode.

When it is in play back mode, press the shooting button to play back all the files in order.

⚠ Do not press the buttons rapidly as the system need 2 seconds to react. For more information on the camera refer to the *X4 Pro Instruction Manual*.

2.3 WAYPOINTS INTERFACE

Click the Waypoints set logo to enter into the Waypoints interface, which allows pilots to set the flight course for their X4 Pro.

©2014 Hubsan
哈博森科技 版权所有

[Focused points set tool]: Set the camera focused points on the map. After the X4 Pro takes off, it can automatically fly the course you set with waypoints.

[Waypoints set tool]: Set separate waypoints on the map.

[Flight course set tool]: Use your fingers to set up a flight course on the map. The flight course consists of several key waypoints.

[Data transmit]: After the waypoints are set up, click this button to transmit the data to the X4 Pro.

[Return back]: Return to the master-control interface.

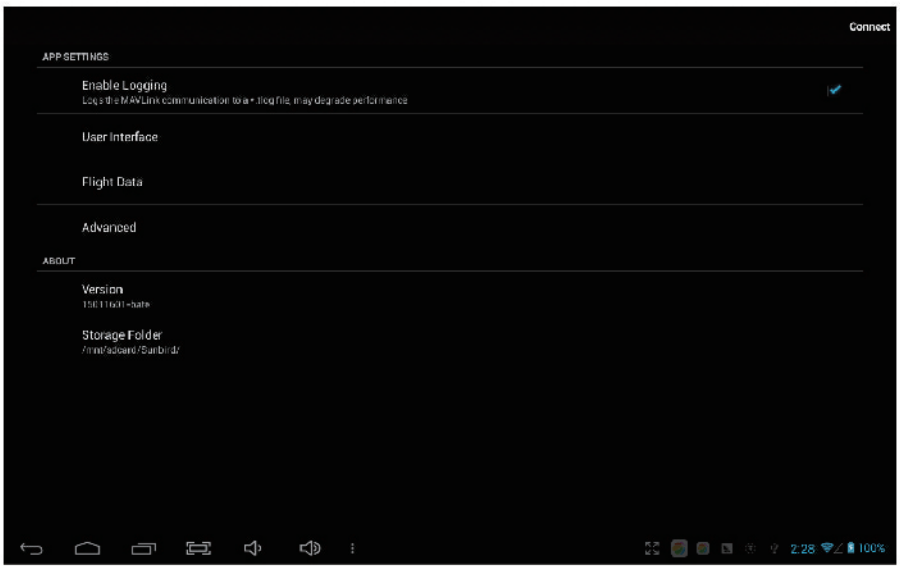
[Waypoints serial number]: The waypoints will display on the screen with serial numbers. Click the serial number to see the corresponding waypoint.

[Chosen waypoint's information]: Check the waypoint's detail information, and set the altitude.

When setting waypoints for the X4 Pro to follow, make sure the distance between any two is more than 5 meters. Otherwise the aircraft may focus only on reaching the nearest waypoint and fly in a circle.

2.4 SYSTEM SETUP INTERFACE

Click the Setup logo to enter into the system setup interface, which can be used to set some software features.



©2014 Hubsan
哈博森科技 版权所有

3 QUICK START FOR NEW USERS

3.1 PREPARATION BEFORE USE

Before using the APP (Android Application Package), connect to the Internet or Wi-Fi® to update the map on the H7000 FPV transmitter.

3.1.1 SETUP WI-FI

Method: Click Setup logo, then the Wi-Fi logo; fill in the account number and password.

APP Modes	Description
Online Mode	APP needs to connect to Wi-Fi to get the local Google map service
Offline Mode	APP has made a note to update the local Google map service in the future.

⚠ • Google Maps may be restricted in some areas. You can also find maps via Google using a VPN (Virtual Private Network).

3.2 CONNECT TO X4 PRO

The APP will automatically connect to the X4 Pro, displaying flight data and controlling the aircraft once the H7000 smart transmitter binds to the X4 Pro.

3.3 SET UP THE FLIGHT VALUES

3.3.1 SET UP THE FOCUSED POINTS

Set the focused points on the map. After the X4 Pro takes off, it can fly towards the direction under the automatic cruise.

Method: Click [Focused points set tool], then [Data transmit] in the Waypoints interface.

3.3.2 SET UP A FLIGHT COURSE(AUTOMATIC FLIGHT)

The flight course consists of several scattered waypoints. The X4 Pro will fly along this course in a permitted pattern.

Set up a single waypoint: Set up the single waypoint on the map. Each separate waypoint will connect from one to the next, forming a complete flight course.

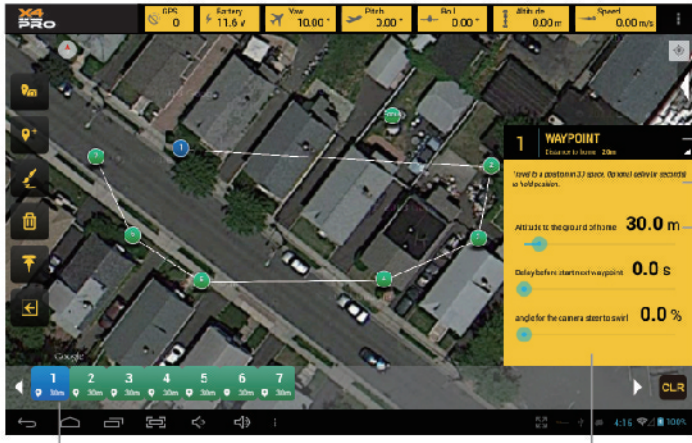
Draw a flight course: Use your fingers on the map to plot a flight course. Each course consists of key waypoints. Key waypoints are calculated by an algorithm that uses information taken from the flight course input. Results may vary.

©2014 Hubsan 哈博森科技 版权所有

Method: Click Waypoints set tool *or* Flight course set tool, then [Data transmit] in the Waypoints interface.

3.3.3 SETUP THE VALUE OF THE WAYPOINTS

Click the waypoints' serial number, and the corresponding information will show on the right side. You can edit the altitude, the latency time, and the camera direction(only the camera has this function). After editing is done, click anywhere the values will be affected.



3.3.4 DELETE THE WAYPOINTS

Click the [Delete] logo, activate it, and then click any waypoint to delete it.

3.3.5 DELETE THE FLIGHT COURSE

Method 1: Press the left [Delete] logo, and a window box will display. Confirm to delete the whole flight course.

Method 2: Click the right side CLR logo. The waypoints will be deleted from the flight course.

©2014 Hubsan
哈博森科技 版权所有

4. Important Notices

1. For safety reasons, data transmissions should be finished downloading before the X4 Pro flies. If the X4 Pro is in flight, it will not receive data.

2. Automatic Mode only allows one focused waypoint. Focused waypoints are not recommended in Manual Mode.

3. The altitude of a waypoint can be updated in the set up interface. Please refer to the Set-Up Instructions.

4. The length of the flight course can be updated in the set up interface. Please do not set the length beyond the maximum control distance for safety reasons.

5. The GPS coordinates from where the X4 Pro takes off will be the default "Home" coordinates for each flight.

©2014 Hubsan
哈博森科技 版权所有

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 area. 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 distance between the equipment and receiver.

• Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

• Consult your 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 be 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.

©2014 Hubsan
哈博森科技 版权所有

User manual is subject to change without prior notice.

Download the latest user manual from

WWW.HUBSAN.COM