

GROUND STATION INSTRUCTION MANUAL



ITEM NO.:H7000

READING INSTRUCTION

SYMBOL EXPLANATION

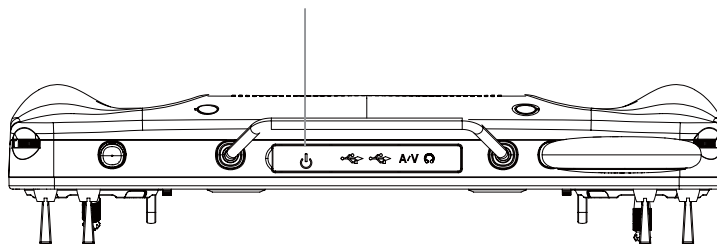
⊘ No operating ⚠ Important Notice 💡 Instruction 📄 Explanation, reference

1 GENERAL INTRODUCTION

The software of the ground station in H7000 FPV transmitter named Sunbird. It can operate in the Hubsan's newest smart FPV transmitter--H7000(it can operate in other Android system theoretically, while a part of the function may be limited), and easily realize the operation of Hubsan X4 Pro cooperate with the H7000's other hardware.

The program interface of Sunbird includes: master-control interface, waypoints compile interface and system setup interface. The following instruction will separately introduce the three interfaces.

[19] Android system power button



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- ⚠ • By default the Android system will start once the H7000 FPV transmitter powered on. If only need restart/ power off the Android system while keep the transmitter power on, users can press [19] Android system power button to restart/ power off the Android system.
 - This instruction Manual only explain how to realize auto-flight/ semi-auto-flight with the Android system, for more operation instruction, please refer to the Hubsan X4 Pro Instruction Manual.
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2 INTERFACE INTRODUCTION

2.1 MASTER-CONTROL INTERFACE

Click the X4 logo on the screen to enter into the system, the first interface is the master-control interface. Below is the picture of it:



[FIND]: Search the X4 Pro automatically, display the X4 Pro in the middle of the screen.

[VIDEO]: Open a floating window, it can display the live video from the X4 Pro's camera. The window can move, amplify, shrink, and close.

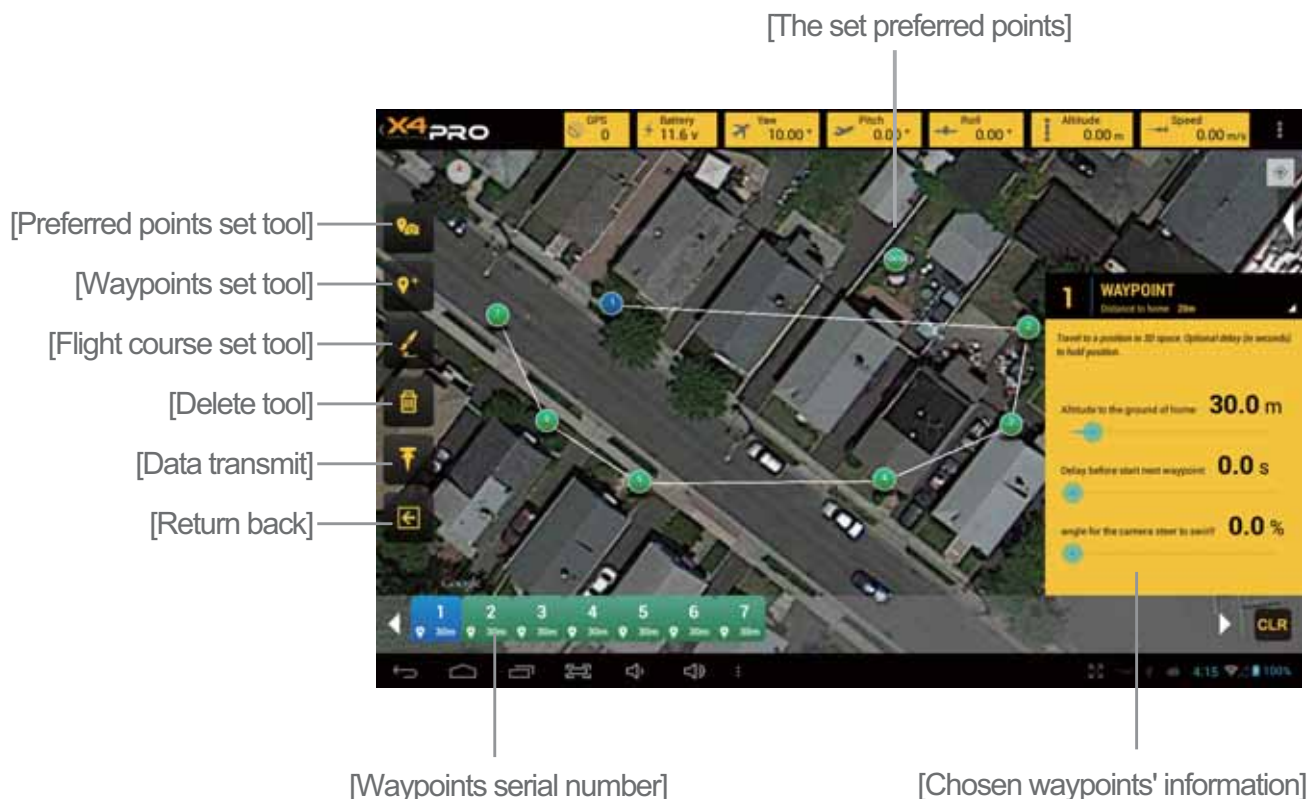
[Waypoints set]: Enter into the waypoints setup interface.

[Setup]: Enter into the setup interface, set up some user's preferred points.

[Connect]: Connect to the X4 Pro. Need connect to the X4 Pro to operate it and display values and videos.

2.2 WAYPOINTS COMPILE INTERFACE

Click the Waypoints set logo to enter into the Waypoints compile interface, it used for setting the flight course of the X4 Pro. See below pictures:



[Preferred points set tool]: Set the preferred points on the map. After the X4 Pro take off, it can fly towards the direct under the automatic cruise.

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

[Flight course set tool]: Slip your fingers to set up a flight course on the map, the flight course is consist of several key waypoints.

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

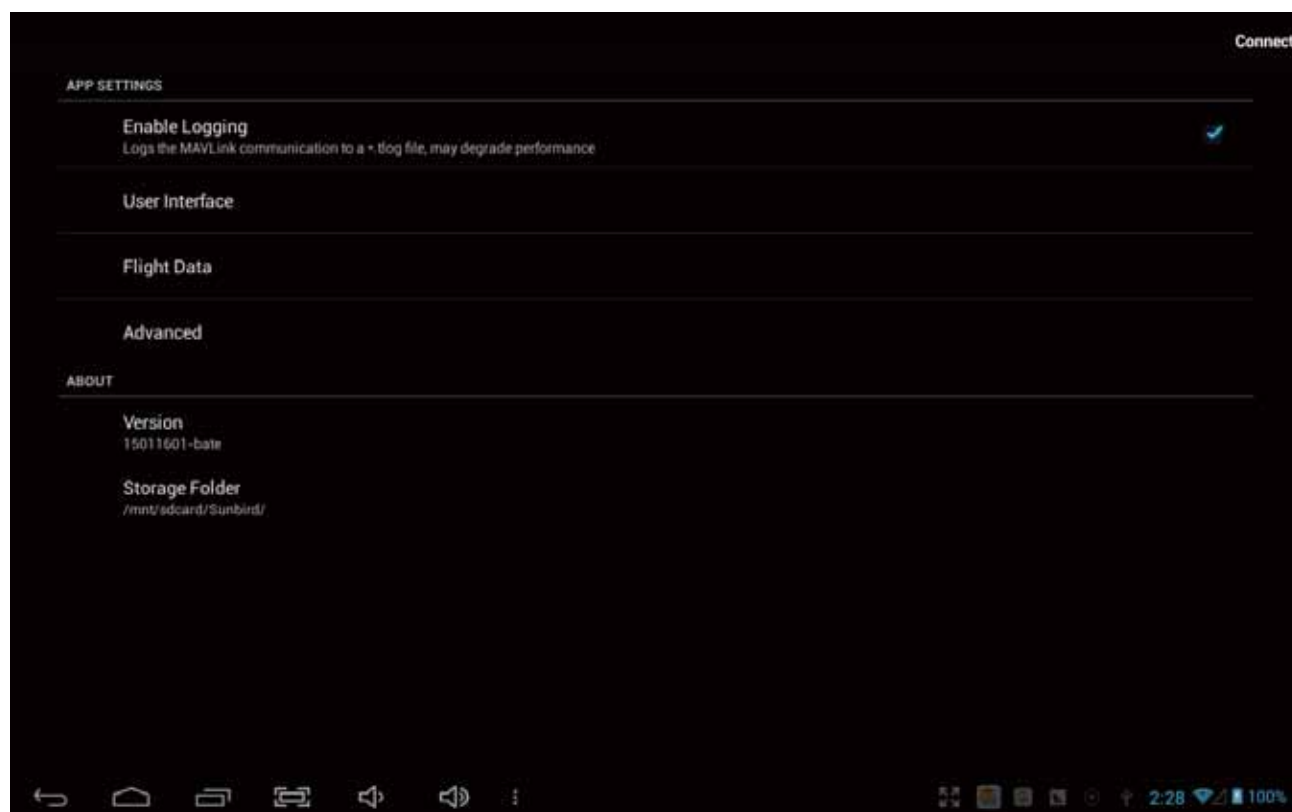
[Return back]: Return to the Master-control interface.

[Waypoints serial number]: The waypoints will display on the screen with serial numbers, click the serial number, the accordance information will show.

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

2.3 SYSTEM SETUP INTERFACE

Click the Setup logo to enter into the system setup interface, it used for setting some values of the software.



3 QUICK START FOR NEW USERS

3.1 PREPARATION BEFORE USE

Before use the APP(Android Application Package), need connect to the internet/ Wi-Fi to update the local map inside the H7000 FPV transmitter.

3.1.1 SETUP WI-FI

Method : Click Setup logo, then Wi-Fi logo, fill in the account no. and password.

Two work Mode of the APP	Description
Online Mode	APP need connect to Wi-Fi to get the local Google map service
Offline Mode	App need updated the Google map and had recorded it



- The Google map may restricted in some area, you can obtain the normal Google service through VPN(Virtual Private Network).
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3.2 CONNECT TO X4 PRO

The APP can only display the X4 Pro's flying data and control the X4 Pro after it connected to the X4 Pro.

Method : Click the [Connect] in Master-control interface

3.3 SETUP THE FLIGHT VALUES

3.3.1 SETUP THE PREFERRED POINTS

Set the preferred points on the map. After the X4 Pro take off, it can fly towards the direct under the automatic cruise.

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

3.3.2 SETUP FLIGHT COURSE(AUTOMATIC FLIGHT)

The flight course is consist of several scatter waypoints. The X4 Pro will fly according to this flight course in a permitted Deviation.

Setup a single waypoint:Setup the single waypoint on the map. The separate waypoint will numbered in serial number and connect automatically to form a flight course.

Draw a flight course:Slip your fingers on the map to draw a flight course. This flight course is also consist of some key waypoints. Those key waypoints is calculated from a certain Algorithm that gain from the flight course, so it may vary from the line you drew.

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

3.3.3 SETUP THE VALUE OF THE WAYPOINTS

Click the waypoints serial number, the accordance information will show on the right side. You can edit value of the altitude, the latency time, and the camera direction(only the camera has this function). After edit done, click any where beside the information the values will be effected.



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, then a window box will display, confirm to delete the whole flight course.

Method 2: Click the right side CLR logo, all the waypoints will be deleted in the whole flight course.

4. Important Notice

1. For safety reason, the data transmit should be done before the X4 Pro fly, if the X4 Pro is in flight, it will refuse to receive any data transmit.
2. The preferred point should only be one, and it can only be effective in Automatic Mode, it will lose efficacy in Manual Mode.
3. The altitude of a waypoint can be updated in the setup interface, please refer to the instruction in Setup.
4. The length of the flight course can be updated in the setup interface, please do not set the length beyond the max of the control distance for safety reasons.
5. The GPS coordinate of the moment when the X4 Pro take off will be defaulted as the Home coordinate in this flight mission.

User manual is subject to change without prior notice.

Download the latest user manual from

WWW.HUBSAN.COM



FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates 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 device complies with Part 15 of FCC Rules.

Operation is subject to the following two conditions:

This device may not cause harmful interference, and this device must accept any interference received, including interference that may cause undesired operation.

Note: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate this equipment.

FCC RF Radiation Exposure Statement

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment (Extremity exposure conditions).