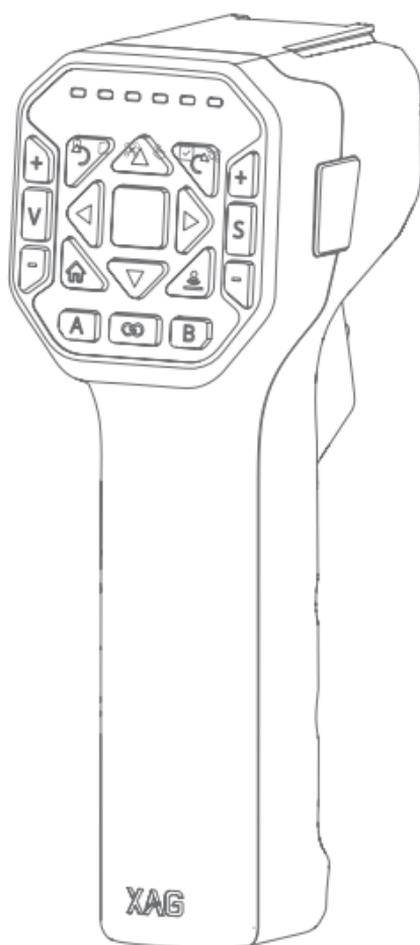


ACS2 Control Stick

Quick Start Guide

Version 1.0 **EN**



To Users

Dear user, thank you for choosing XAG products.

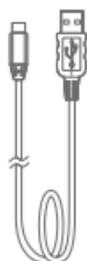
For safety reasons and to ensure the best experience possible, XAG recommends that you read through the Quick Start Guide and Disclaimer in this document before attempting to use the ACS2 ControlStick.

Contact Us

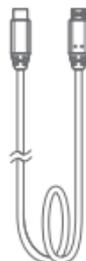
If you have any questions about this document, please contact our Technical Support via email: info@xa.com

List of Items

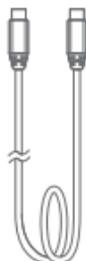
Please carefully check if the product contains all the items listed below and your dealer if there are any missing items.



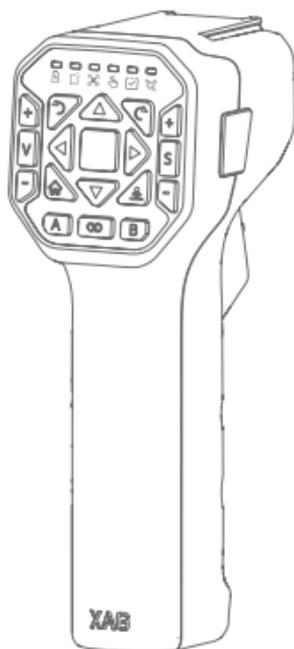
USB To Type-C
Cable
× 1



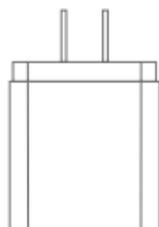
Micro USB To Type-C
Cable
× 1



Type-C To Type-C
Cable
× 1



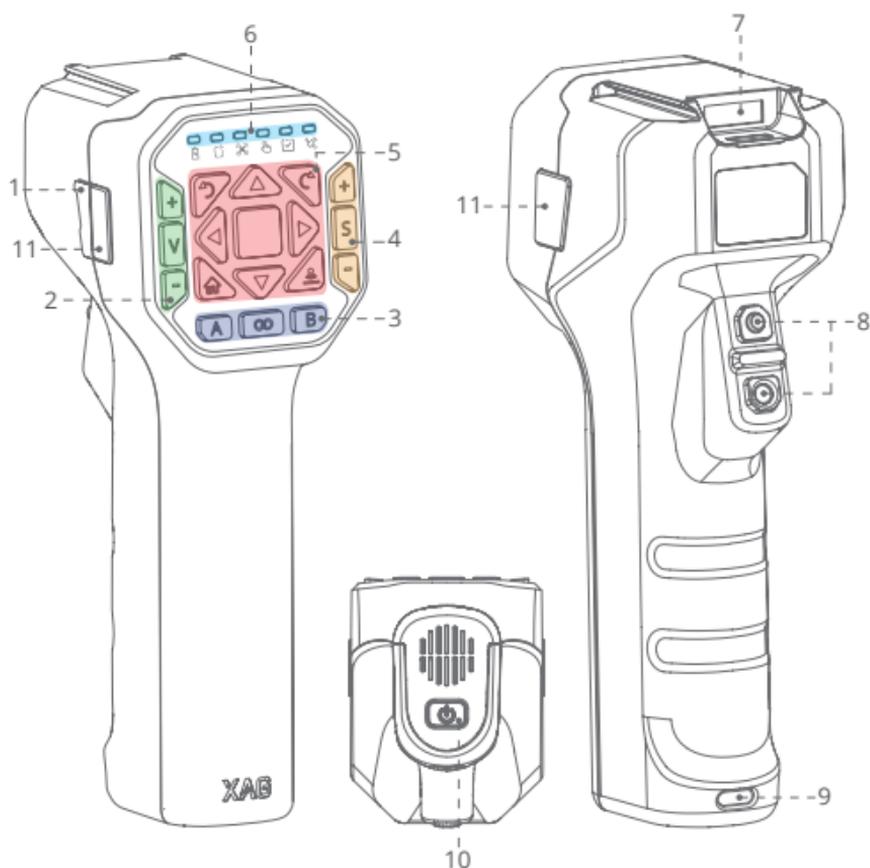
ControlStick (Body)
× 1



Power Adapter
× 1

Getting to Know ControlStick

The main structural components of the ACS2 ControlStick are as follows:



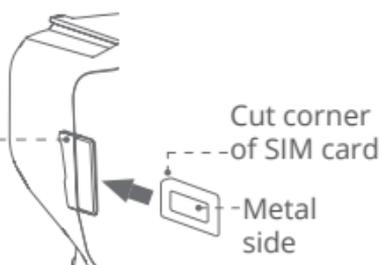
- | | | |
|------------------------|--|-----------------------|
| ① SIM Card Slot | ⑤ Flight Control Panel | ⑨ Cable Port (Type-C) |
| ② Speed Control | ⑥ Status Indicator * | ⑩ Power Button |
| ③ Smart Mode | ⑦ Differential Positioning Module Port | ⑪ Cooling Component |
| ④ Spray/Spread Control | ⑧ Altitude Control | |

* Status Indicators include (from left to right): Power light, Device Connection light, UAS Connection light, Flight Status light, Task Status light and RTK Status light.

ControlStick Overview

• Inserting SIM card

1. Remove the rubber plug ① on the left side of the ControlStick.
2. Insert the SIM card in the ① direction shown on the right.
3. Replace the rubber plug ①.



Notes: Insert the SIM card in the indicated position, ensuring the cut corner of the SIM card faces the slot, while the metal side faces the rear of the ControlStick.

• Turning on the ControlStick

1. Press and hold the Power button until the six indicator lights flash at the same time.
2. Release and then press and hold the Power button again until a voice prompt is heard from the ControlStick.



Notes: Within one minute of being powered on, the UAS Connection light flashes green slowly, indicating that the communication module is starting.

All the "press and hold" mentioned herein means "press and hold for 2 seconds", unless otherwise specified.

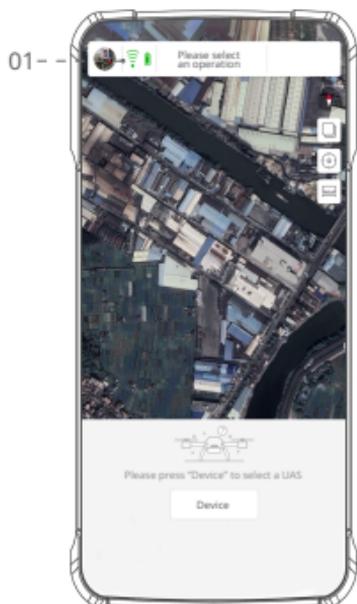
- Connecting to mobile phone

1. Open your mobile phone, find the hotspot of the remote control in the Wi-Fi list and enter the corresponding password to connect. (The default hotspot name is "ACS2_XXX", in which XXX is the serial number marked on the top of the remote control, and the default password is 20070401.)
2. Open the Xplanet App again, and wait for connection. ( the icon turns green)

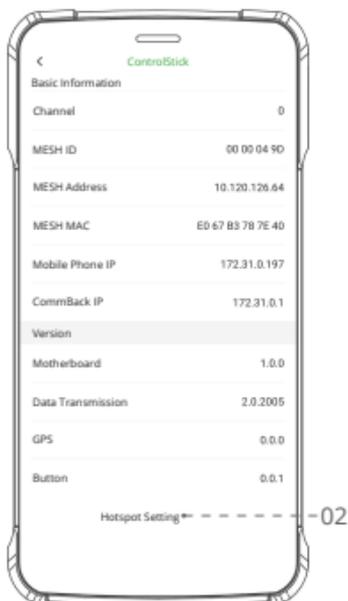
Notes: Please keep the mobile phone at a distance of 20cm-10m away from the ControlStick. Do not keep the two devices too close, to prevent signal interference.

• Viewing parameters and setting a hotspot

1. Open the Xplanet App and click the icon (01)
2. To view more parameters, you may slide down (see Figure 3)



3. Click "Hotspot Setting" (02) to change the name and password of the hotspot



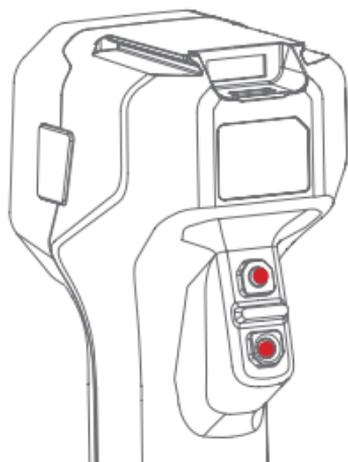
4. Upon modification, please re-connect with the new name and password



Hands-on Instruction

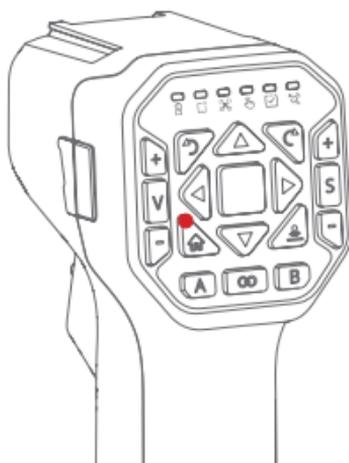
• Take-off

Press and hold both Altitude Control buttons for 3 seconds, and the UAS will automatically take off and hover at 2.5 meters. Release the buttons within 3 seconds to cancel the take-off order



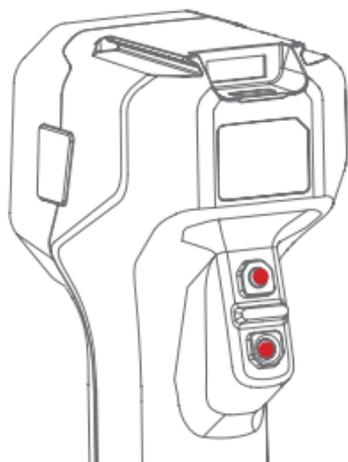
• Land/Return

1. Land: Press and hold both Altitude Control buttons to land the UAS (see the figure above)
2. Return: Press and hold the Return button to return the UAS (see the figure below)



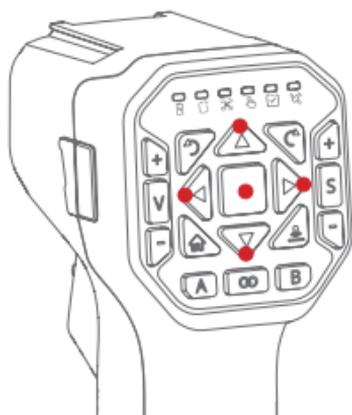
- Altitude control

1. Go up: Press and hold the Up button above
2. Go down: Press and hold the Down button below



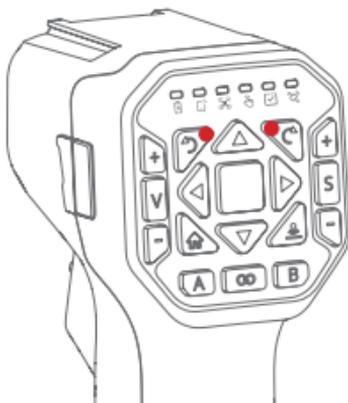
- Pitch/Roll/Hover control

1. Press the Up/Down buttons to tilt the UAS up and down
2. Press the Left/Right button to tilt the UAS left and right
3. Press the middle square button to hover the UAS



- Direction control

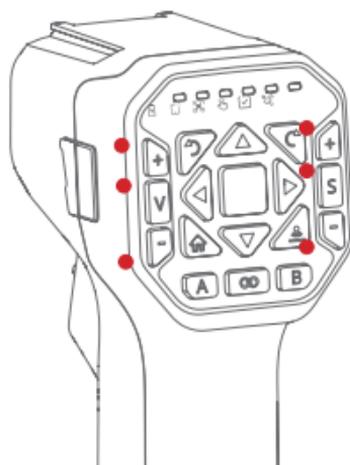
1. Press the button marked with counterclockwise arrow to turn the UAS head left
2. Press the button marked with clockwise arrow to turn the UAS head right



- Speed control

1. Speed up: Press the + button above the V button
2. Speed down: Press the - button below the V button

Notes: Press the V button to activate the highest voice broadcast speed in the current setting



- Spray mode on/off

To turn on/off the spray mode: Press the S button

Note: Spray mode is unavailable during hovering

- Spray/Spread volume control

1. Increase volume: Press the + button above the S button
2. Decrease volume: Press the - button below the S button

Notes: During the flight of the UAS as controlled by the ControlStick, the Flight Status light of the ControlStick will be green. At the same time, the UAS will switch to “Manual Control Mode”, and its LED tail light double flashes in green.

If the UAS on an autonomous route is taken over by the ControlStick and switches to “Manual Control Mode”, you may press and hold the middle square button to return to “Autonomous Mode”, and then choose to resume the original route via the mobile App.

A-B Point Mode

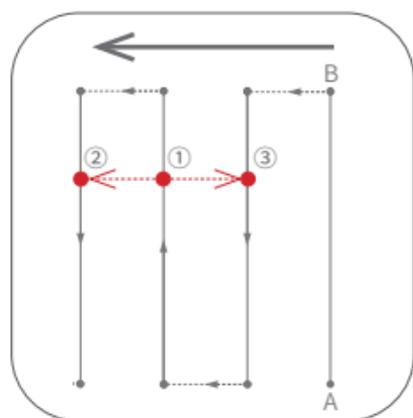
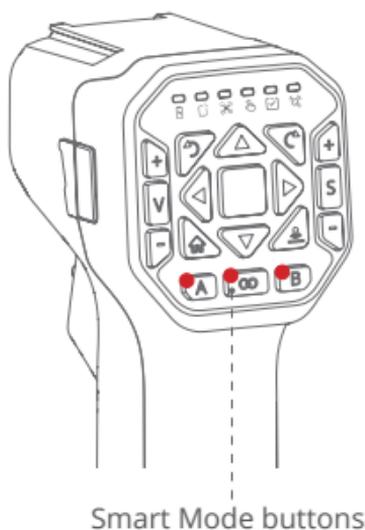
1. Defining points

- ① . Fly the UAS to the designated location, press the A button twice to define the location as Point A
- ② . Fly the UAS to the designated location, press the B button twice to define the location as Point B

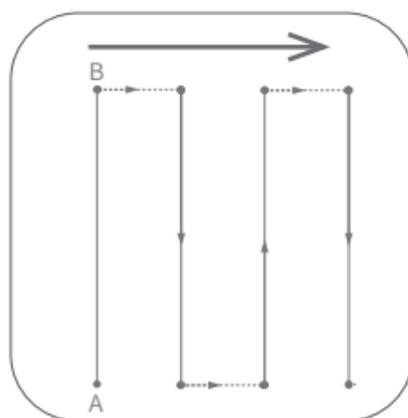
2. Activating the mode

- ①. Press the middle Smart Mode button twice until a voice prompt “Smart Mode” is heard from the ControlStick
- ②. Press the A button, and the UAS will operate as per the left route
- ③. Press the B button, and the UAS will operate as per the right route

Note: After a route is selected, press the A/B button to activate ridge shift*.



Left route

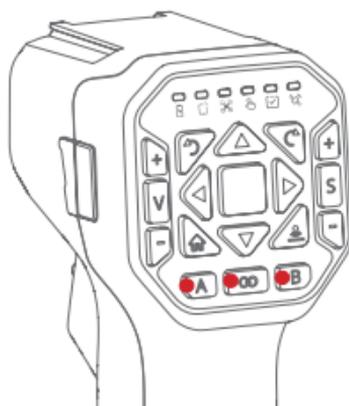


Right route

* Assume that the UAS is now located at point ① in the figure above. If you press the A button, the UAS will fly to point ② to continue the operation; if the B button is pressed, the UAS will fly to point ③ .

3 . Changing route

- ① . Switch to manual mode: Press the Smart Mode button twice until a voice prompt "Manual Mode" is heard from the ControlStick
- ② . Press the A/B button to select another route



4 . Exit

Press any action button or Smart Mode button to exit the A-B Point Mode

Rover mode

In this mode, the ControlStick may assist with surveying. For more details, please refer to the instructions in "the Quick Start Guide for Differential Positioning Module".

Other Operations

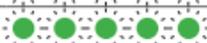
• Turning off ControlStick

1. Press and hold the Power button until the six indicator lights flash at the same time
2. Release and then press and hold the Power button again until all the six indicator lights are off.



•Checking Power Level

When the ControlStick is off, press the Power button once and the six indicator lights will display the current power level (see below); when the ControlStick is on, power level is indicated by the Power light (see page 11).

1 green light on		Low power, turn-on operation inapplicable
2 green lights on		Power level 5%~20%
3 green lights on		Power level 20%~40%
4 green lights on		Power level 40%~60%
5 green lights on		Power level 60%~80%
6 green lights on		Power level 80%~100%

Charge

Please charge the ControlStick with the provided adapter and Type-C cable. Insert the USB end of the cable into the adapter, and the Type-C end into the port located at the upper part of the ControlStick. The power level of the device is indicated by the power light color:

LED Display*	Status
Quick flash (no color specified) 	Quick Charge Mode
Slow flash (no color specified) 	Slow Charge Mode
Green light on 	Fully charged

Upgrade

1. Upgrade the ControlStick via the Xplanet App:

Open the XPlanet App, click the profile photo on the upper left corner to open the menu, select "Device"->"ACS2"->"Check Updates", tick the box on the right to choose the firmware to be updated, and finally click "Upgrade Now". After the download is completed, turn off the ControlStick and then press the Power button until all the six lights start to flash red, indicating the ControlStick is upgrading. When all the lights are off, the upgrade is complete.

2. Upgrade the ControlStick via the Type-C cable and a PC:

- ① When the ControlStick is off, press and hold the Down button (altitude control) and the Power button until all the six indicator lights are on in red, indicating the ControlStick is under the USB flash drive mode.
- ② Insert the USB end of the cable into the USB port of the PC, and insert the Type-C end into the port at the upper part of the ControlStick. Upon connection, the PC will show a flash drive is inserted, and please copy the ACS2.fw file to the flash drive.
- ③ Unplug the cable, and then press and hold the Down button (altitude control) and the Power button until all the six indicator lights are off, indicating the ControlStick has exited the USB flash drive mode.
- ④ Press and hold the Power button until all the six indicator lights flash in red, indicating the ControlStick is under the upgrade mode. When all the lights are off, the upgrade is complete.

* The red light indicates a power level of 5%~29%, yellow light 30%~59%, and green light 60%~100%.

Status Description (from left to right)

Power light	Status
Green light on 	Power level 60%~100%
Yellow light on 	Power level 30%~59%
Red light on 	Power level 5%~29%
Quick flash (red) 	Power level lower than 5%, voice alert on, about to power off

Device Connection light	Status	Rover mode
Green light on 	Connected	RTK module connected
Off 	Disconnected	Disconnected
Red light on 	Connection fault	Connection fault

UAS Connection light	Status
Slow flash (green) 	Module starting
Green light on 	UAS connected
Off 	No UAS paired
Red light on 	Connection fault

Flight Status light	Status
Green light on 	Under remote control
Off 	Under autonomous mode

Task Status light	Status
Slow flash (green) 	Loading task data
Green light on 	Task data loaded
Off 	No task data

RTK Status light	Status
Quick flash (green) 	Single
Slow flash (green) 	Float
Green light on 	RTK
Red light on 	No RTK module or satellite search fault in Rover Mode
Off 	No RTK module

Technical Specifications

Model: ACS2

Dimensions: 76mm×60mm×177mm

Operating frequency: 2.4Ghz/5.8GHz

Transmitting power: 23dbm

Mobile phone operating system supported: Android

Built-in battery capacity: 4500 mAh /32 Wh

Ambient temperature for charging: 5°C - 45°C

Max. signal range (no interference/obstruction): 800 m

Charging voltage/current: 5V/2A, 9V/1.5A, 12V/1.5A

Mesh network: Supported

Voice broadcast: Supported

Operating temperature: -20°C - 60°C

Protection grade: IP 54



Scan the QR code
Download XPlanet App

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3. Please assemble and use this product in strict accordance with the "Product Manual/Operation Manual". Do not modify or disassemble the product without authorization. The user shall bear all losses arising from his or her unauthorized modification or disassembly of this product, for which XAG may not be held liable.
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Users are required to read the complete "Product Manual" and be familiar with the product operations before using the product. Otherwise, it may cause serious injury to yourself or others, or cause product damage and property loss. Strong safety awareness is required to operate this product. Do not use the parts that are not provided or suggested by XAG. Please strictly follow the instructions of XAG to install and use the product.

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