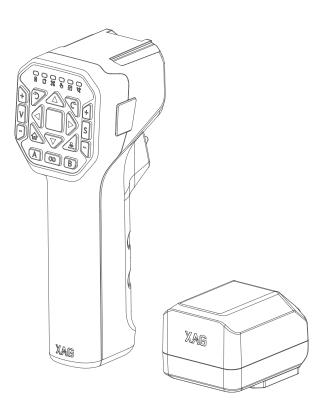
ACS2G Remote Controller

User Manual

Version AU V1.0 EN







Disclaimer

Carefully read and understand this User Manual before using this product for the first time. Failure to read and follow the instructions may result in serious injury to yourself and/or others, damage to your Products and/or other objects in the vicinity. By using this product, you hereby signify that you have read this document carefully and that you understand and agree to abide by all terms and conditions of this document and all relevant documents of this product. You agree that you are solely responsible for your own conduct while using this product, and for any consequences thereof. XAG accepts no liability for damage, injury, or any legal responsibility incurred directly or indirectly from the use of this product.

XAG reserves the rights for final interpretation and revision of the Terms and conditions herein to the extent permitted by law. XAG also has the right to update, modify or terminate these terms and conditions via its official website without prior notice.

This document and all other collateral documents are subject to change without prior notice at the sole discretion of XAG.

Warning

This product must be operated with Strong safety awareness. Failure to operate this product in a safe and responsible manner could result in injury or damage to the product or other property. This product is not intended for use by those who are under 18 years old. DO NOT alter this product or use this product with incompatible components or parts.

- ACS2G is only compatible with the XAG V40 / P40 / P100 Aircraft, and the firmware of the Aircraft and APP must support the Remote Controller.
- DO NOT use the Remote Controller with other non-compatible Devices.
- This Product is not a Toy, and it is not suitable for those who are under 18 years old. Please keep children away from this product and be particularly cautious with children present.

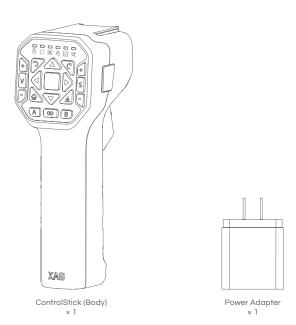
CONTENT

Discialmer	3
Warning	3
List of Items	5
ACS2G Remote Controller Overview	6
Status Indicator Description	8
Status Indicator – Battery	8
Status Indicator – Smart Device	8
Status Indicator – Device	9
Status Indicator – Control Mode	9
Status Indicator – Terminal	9
Status Indicator – RTK	9
Using the Remote Controller	10
Inserting SIM Card	10
Charging the Remote Controller	11
Charging Mode	11
Battery Level (Charging)	11
Turning the Remote Controller ON/OFF	12
Device Binding	13
Controls	18
ACS2 RTK Module	21
Field Planning	22
Pairing ACS2G with XRTK4 Mobile Station	22
Create a new field	25
Technical Specifications	28

List of Items

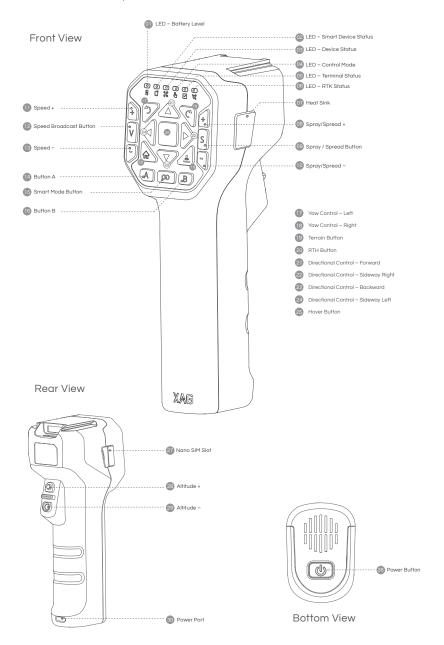
Please carefully check if the product contains all the items listed below and your dealer if there are any missing items.





ACS2G Remote Controller Overview

The main structural components of the ACS2G Remote Controller are as follow.



indicates the Battery Level of the Remote Controller LED – Smart Device Status Indicates whether the remote controller is connected to Smart Device LED – Device Status Indicates whether the remote controller is linked to the Aircraft LED – Control Mode Indicates the Flight mode of the Device (Manual / Autonomous) LED – Terminal Status Indicates whether the remote controller is connected to Terminal LED – RTK Status Indicates the RTK Status of the Remote Controller Heat Sink Used to dissipate heat from internal Components Spray/Spread + Increase the rate of Spray / Spread Spray/Spread Button Press to Enable / Disable Spray or Spread Spray/Spread — Decrease the rate of Spray / Spread Speed + Increase Speed Speed + Increase Speed Speed Broadcast Button Press to broadcast the current Speed Speed - Decrease Speed Mapping Mode: Add Point Smart Mode Button Long Press to Enter / Exit mapping Mode Mapping Mode: Undo previous Added Point Yow Control – Left Rotate Device CCW (Counter-Clockwise) Yow Control – Right Rotate Device CCW (Counter-Clockwise) Terrain Button Used to Broadcast and Turn ON/OFF Terrain Following RTH Button Press and Hold this RTH button to initiate Return to Home (RTH) Directional Control – Sideway Right Press and Hold to command the Aircraft to fly Sideway to the Right Directional Control – Sideway Right Press and Hold to command the Aircraft to fly Sideway to the Right Directional Control – Sideway Leff Press and Hold to command the Aircraft to fly Sideway to the Leff Hover Button Used to turn ON/OFF the remote controller Power Button Used to turn ON/OFF the remote controller Nano SIM Slot Provides Cellular connection Altitude Decrease Altitude Power Port Connects to a power source to charge the Remote Controller		
LED - Device Status Indicates whether the remote controller is linked to the Aircraft Indicates whether the remote controller is connected to Terminal Status Indicates whether the remote controller is connected to Terminal LED - RTK Status Indicates the RTK Status of the Remote Controller Indicates the RTK Status of the RT	01 LED – Battery Level	Indicates the Battery Level of the Remote Controller
LED - Control Mode Indicates the Flight mode of the Device (Manual / Autonomous) LED - Terminal Status Indicates whether the remote controller is connected to Terminal LED - RTK Status Indicates the RTK Status of the Remote Controller Heat Sink Used to dissipate heat from internal Components Spray/Spread + Increase the rate of Spray / Spread Spray / Spread Button Press to Enable / Disable Spray or Spread Spray/Spread - Decrease the rate of Spray / Spread Speed + Increase Speed Speed Broadcast Button Press to broadcast the current Speed Speed - Decrease Speed Mapping Mode: Add Point Mapping Mode: Add Point And Mapping Mode: Undo previous Added Point And Control - Left Rotate Device CCW (Counter-Clockwise) Yaw Control - Right Rotate Device CW (Clockwise) Terrain Button Used to Broadcast and Turn ON/OFF Terrain Following RTH Button Press and Hold this RTH button to initiate Return to Home (RTH) Directional Control - Sideway Right Press and Hold to command the Aircraft to fly Sideway to the Right Directional Control - Backward Press and Hold to command the Aircraft to fly Sideway to the Right Press and Hold to command the Aircraft to fly Sideway to the Left Press and Hold to command the Aircraft to fly Sideway to the Left Press and Hold to command the Aircraft to fly Sideway to the Left Press and Hold to command the Aircraft to fly Sideway to the Left Press and Hold to command the Aircraft to fly Sideway to the Left Press and Hold to command the Aircraft to fly Sideway to the Left Press to Hover or Long Press to resume Autonomous Operation Prower Button Used to turn ON/OFF the remote controller Altitude - Long Press Altitude Prevides Cellular connection Altitude - Decrease Altitude	02 LED – Smart Device Status	Indicates whether the remote controller is connected to Smart Device
LED - Terminal Status Indicates whether the remote controller is connected to Terminal	03 LED – Device Status	Indicates whether the remote controller is linked to the Aircraft
led LED - RTK Status Indicates the RTK Status of the Remote Controller Heat Sink Used to dissipate heat from internal Components Spray/Spread + Increase the rate of Spray / Spread Spray / Spread Button Press to Enable / Disable Spray or Spread Increase Speed Speed + Increase Speed Speed Button Press to broadcast the current Speed Speed - Decrease Speed Mapping Mode: Add Point Smart Mode Button Mapping Mode: Undo previous Added Point Added Point Added Point Ratale Device CCW (Counter-Clockwise) Terrain Button Used to Broadcast and Turn ON/OFF Terrain Following RTH Button Press and Hold this RTH button to initiate Return to Home (RTH) Press and Hold to command the Aircraft to fly Sideway to the Right Press and Hold to command the Aircraft to fly Sideway to the Right Directional Control - Sideway Right Press and Hold to command the Aircraft to fly Sideway to the Left Hover Button Press to Hover or Long Press to resume Autonomous Operation Press to Hover or Long Press to resume Autonomous Operation Press to Hover or Long Press to resume Autonomous Operation Altitude - Decrease Altitude	04 LED – Control Mode	Indicates the Flight mode of the Device (Manual / Autonomous)
Heat Sink	05 LED – Terminal Status	Indicates whether the remote controller is connected to Terminal
Spray/Spread + Increase the rate of Spray / Spread Spray / Spread Button Press to Enable / Disable Spray or Spread Is Spray/Spread - Decrease the rate of Spray / Spread Is Speed + Increase Speed Is Speed Broadcast Button Press to broadcast the current Speed Speed Broadcast Button Press to broadcast the current Speed Is Speed - Decrease Speed Is Button A Mapping Mode: Add Point Is Smart Mode Button Long Press to Enter / Exit mapping Mode Is Button B Mapping Mode: Undo previous Added Point Yaw Control – Left Rotate Device CCW (Counter-Clockwise) Is Yaw Control – Right Rotate Device CW (Clockwise) Is Terrain Button Used to Broadcast and Turn ON/OFF Terrain Following RTH Button Press and Hold this RTH button to initiate Return to Home (RTH) Directional Control – Forward Press and Hold to command the Aircraft to fly Forward Directional Control – Bideway Right Press and Hold to command the Aircraft to fly Backward Directional Control – Backward Press and Hold to command the Aircraft to fly Backward Press and Hold to command the Aircraft to fly Sideway to the Right Press and Hold to command the Aircraft to fly Sideway to the Left Press and Hold to command the Aircraft to fly Sideway to the Left Press and Hold to command the Aircraft to fly Sideway to the Left Press and Hold to command the Aircraft to fly Sideway to the Left Press to Hover or Long Press to resume Autonomous Operation Sepower Button Used to turn ON/OFF the remote controller Nano SIM Slot Provides Cellular connection Increase Altitude Altitude – Decrease Altitude	06 LED – RTK Status	Indicates the RTK Status of the Remote Controller
Spray / Spread Button Press to Enable / Disable Spray or Spread Spray/Spread – Decrease the rate of Spray / Spread Increase Speed Press to broadcast the current Speed Speed Proadcast Button Press to broadcast the current Speed Button A Mapping Mode: Add Point Mapping Mode: Add Point Mapping Mode: Undo previous Added Point Actate Device CCW (Counter-Clockwise) Actate Device CW (Clockwise) Terrain Button Used to Broadcast and Turn ON/OFF Terrain Following RTH Button Press and Hold this RTH button to initiate Return to Home (RTH) Directional Control – Sideway Right Press and Hold to command the Aircraft to fly Sideway to the Right Directional Control – Backward Directional Control – Sideway Left Press and Hold to command the Aircraft to fly Sideway to the Left Hover Button Press to Enable / Disable Spray or Spread Press and Hold to command the Aircraft to fly Sideway to the Left Press and Hold to command the Aircraft to fly Sideway to the Left Hover Button Press to Hover or Long Press to resume Autonomous Operation Vano SIM Slot Provides Cellular connection Altitude + Increase Altitude Altitude – Decrease Altitude	07 Heat Sink	Used to dissipate heat from internal Components
Decrease the rate of Spray / Spread Speed + Increase Speed Speed Broadcast Button Press to broadcast the current Speed Button A Mapping Mode: Add Point Mapping Mode: Add Point Mapping Mode: Undo previous Added Point Rotate Device CCW (Counter-Clockwise) Terrain Button Used to Broadcast and Turn ON/OFF Terrain Following RTH Button Press and Hold this RTH button to initiate Return to Home (RTH) Directional Control – Sideway Right Press and Hold to command the Aircraft to fly Sideway to the Right Directional Control – Backward Press and Hold to command the Aircraft to fly Backward Directional Control – Sideway Left Press and Hold to command the Aircraft to fly Backward Directional Control – Sideway Left Press and Hold to command the Aircraft to fly Backward Directional Control – Sideway Left Press and Hold to command the Aircraft to fly Backward Directional Control – Sideway Left Press and Hold to command the Aircraft to fly Sideway to the Left Hover Button Press to Hover or Long Press to resume Autonomous Operation Power Button Used to turn ON/OFF the remote controller Nano SIM Slot Provides Cellular connection Altitude + Increase Altitude	08 Spray/Spread +	Increase the rate of Spray / Spread
Increase Speed Increase Altitude Increase Altitude Increase Altitude Increase Altitude Increase Altitude	09 Spray / Spread Button	Press to Enable / Disable Spray or Spread
Press to broadcast the current Speed Speed	10 Spray/Spread -	Decrease the rate of Spray / Spread
Button A Mapping Mode: Add Point Smart Mode Button Long Press to Enter / Exit mapping Mode Button B Mapping Mode: Undo previous Added Point Yaw Control – Left Rotate Device CCW (Counter-Clockwise) Terrain Button Used to Broadcast and Turn ON/OFF Terrain Following RTH Button Press and Hold this RTH button to initiate Return to Home (RTH) Directional Control – Sideway Right Press and Hold to command the Aircraft to fly Sideway to the Right Directional Control – Backward Press and Hold to command the Aircraft to fly Backward Press and Hold to command the Aircraft to fly Sideway to the Right Directional Control – Backward Press and Hold to command the Aircraft to fly Sideway to the Left Hover Button Press to Hover or Long Press to resume Autonomous Operation Provides Cellular connection Altitude + Increase Altitude Altitude – Decrease Altitude	Speed +	Increase Speed
Mapping Mode: Add Point Smart Mode Button Long Press to Enter / Exit mapping Mode Mapping Mode: Undo previous Added Point Yaw Control - Left Rotate Device CCW (Counter-Clockwise) Yaw Control - Right Rotate Device CW (Clockwise) Terrain Button Used to Broadcast and Turn ON/OFF Terrain Following RTH Button Press and Hold this RTH button to initiate Return to Home (RTH) Directional Control - Forward Press and Hold to command the Aircraft to fly Forward Directional Control - Sideway Right Press and Hold to command the Aircraft to fly Sideway to the Right Directional Control - Backward Press and Hold to command the Aircraft to fly Backward Press and Hold to command the Aircraft to fly Sideway to the Left Hover Button Press to Hover or Long Press to resume Autonomous Operation Provides Cellular connection Altitude + Increase Altitude Altitude - Decrease Altitude	12 Speed Broadcast Button	Press to broadcast the current Speed
1 Smart Mode Button Long Press to Enter / Exit mapping Mode 1 Button B Mapping Mode: Undo previous Added Point 1 Yaw Control – Left Rotate Device CCW (Counter-Clockwise) 1 Yaw Control – Right Rotate Device CW (Clockwise) 1 Terrain Button Used to Broadcast and Turn ON/OFF Terrain Following 2 RTH Button Press and Hold this RTH button to initiate Return to Home (RTH) 2 Directional Control – Forward Press and Hold to command the Aircraft to fly Forward 2 Directional Control – Sideway Right Press and Hold to command the Aircraft to fly Sideway to the Right 2 Directional Control – Backward Press and Hold to command the Aircraft to fly Backward 2 Directional Control – Sideway Left Press and Hold to command the Aircraft to fly Sideway to the Left 3 Hover Button Press to Hover or Long Press to resume Autonomous Operation 4 Power Button Used to turn ON/OFF the remote controller Nano SIM Slot Provides Cellular connection Altitude + Increase Altitude Decrease Altitude	13 Speed -	Decrease Speed
Button B Mapping Mode: Undo previous Added Point Yaw Control – Left Rotate Device CCW (Counter-Clockwise) Press and Hold to command the Aircraft to fly Sideway to the Left Press and Hold to command the Aircraft to fly Sideway to the Left Press and Hold to command the Aircraft to fly Sideway to the Left Press and Hold to command the Aircraft to fly Sideway to the Left Press and Hold to command the Aircraft to fly Sideway to the Left Press and Hold to command the Aircraft to fly Sideway to the Left Press and Hold to command the Aircraft to fly Sideway to the Left Press and Hold to command the Aircraft to fly Sideway to the Left Press and Hold to command the Aircraft to fly Sideway to the Left Press and Hold to command the Aircraft to fly Sideway to the Left Press to Hover or Long Press to resume Autonomous Operation Power Button Used to turn ON/OFF the remote controller Nano SIM Slot Provides Cellular connection Altitude + Increase Altitude	14 Button A	Mapping Mode: Add Point
10 Yaw Control – Left Rotate Device CCW (Counter-Clockwise) 11 Yaw Control – Right Rotate Device CW (Clockwise) 12 Terrain Button Used to Broadcast and Turn ON/OFF Terrain Following 13 Terrain Button Press and Hold this RTH button to initiate Return to Home (RTH) 14 Directional Control – Forward Press and Hold to command the Aircraft to fly Forward 15 Directional Control – Sideway Right Press and Hold to command the Aircraft to fly Sideway to the Right 16 Directional Control – Backward Press and Hold to command the Aircraft to fly Backward 17 Directional Control – Sideway Left Press and Hold to command the Aircraft to fly Sideway to the Left 18 Hover Button Press to Hover or Long Press to resume Autonomous Operation 19 Power Button Used to turn ON/OFF the remote controller 20 Nano SIM Slot Provides Cellular connection 21 Altitude + Increase Altitude 22 Directional Control – Decrease Altitude	15 Smart Mode Button	Long Press to Enter / Exit mapping Mode
19 Yaw Control – Right Rotate Device CW (Clockwise) 10 Terrain Button Used to Broadcast and Turn ON/OFF Terrain Following 20 RTH Button Press and Hold this RTH button to initiate Return to Home (RTH) 21 Directional Control – Forward Press and Hold to command the Aircraft to fly Forward 22 Directional Control – Sideway Right Press and Hold to command the Aircraft to fly Sideway to the Right 23 Directional Control – Backward Press and Hold to command the Aircraft to fly Backward 24 Directional Control – Sideway Left Press and Hold to command the Aircraft to fly Sideway to the Left 25 Hover Button Press to Hover or Long Press to resume Autonomous Operation 26 Power Button Used to turn ON/OFF the remote controller 27 Nano SIM Slot Provides Cellular connection 28 Altitude + Decrease Altitude 29 Directional Control – Sideway Left Press and Hold to command the Aircraft to fly Sideway to the Left 29 Directional Control – Sideway Left Press and Hold to command the Aircraft to fly Sideway to the Left 29 Directional Control – Sideway Left Press and Hold to command the Aircraft to fly Sideway to the Left 20 Directional Control – Sideway Left Press and Hold to command the Aircraft to fly Sideway to the Left 21 Directional Control – Sideway Left Press and Hold to command the Aircraft to fly Sideway to the Right 22 Directional Control – Sideway Left Press and Hold to command the Aircraft to fly Sideway to the Right 23 Directional Control – Sideway Left Press and Hold to command the Aircraft to fly Sideway to the Right 24 Directional Control – Sideway Left Press and Hold to command the Aircraft to fly Sideway to the Right 25 Directional Control – Sideway Left Press and Hold to command the Aircraft to fly Sideway to the Right 26 Directional Control – Sideway Left Press and Hold to command the Aircraft to fly Sideway to the Right 27 Directional Control – Sideway Left Press and Hold to command the Aircraft to fly Sideway to the Right 28 Directional Control – Sideway Left Press and Hold to command the Aircraf	16 Button B	Mapping Mode: Undo previous Added Point
Used to Broadcast and Turn ON/OFF Terrain Following RTH Button Press and Hold this RTH button to initiate Return to Home (RTH) Directional Control – Forward Press and Hold to command the Aircraft to fly Forward Directional Control – Sideway Right Press and Hold to command the Aircraft to fly Sideway to the Right Directional Control – Backward Press and Hold to command the Aircraft to fly Backward Directional Control – Sideway Left Press and Hold to command the Aircraft to fly Sideway to the Left Hover Button Press to Hover or Long Press to resume Autonomous Operation Dewer Button Used to turn ON/OFF the remote controller Nano SIM Slot Provides Cellular connection Altitude + Decrease Altitude	17 Yaw Control – Left	Rotate Device CCW (Counter-Clockwise)
20 RTH Button Press and Hold this RTH button to initiate Return to Home (RTH) 21 Directional Control – Forward Press and Hold to command the Aircraft to fly Forward 22 Directional Control – Sideway Right Press and Hold to command the Aircraft to fly Sideway to the Right 23 Directional Control – Backward Press and Hold to command the Aircraft to fly Backward 24 Directional Control – Sideway Left Press and Hold to command the Aircraft to fly Sideway to the Left 25 Hover Button Press to Hover or Long Press to resume Autonomous Operation 26 Power Button Used to turn ON/OFF the remote controller 27 Nano SIM Slot Provides Cellular connection 28 Altitude + Decrease Altitude 29 Directional Control – Sideway Left Press and Hold to command the Aircraft to fly Sideway to the Left Press and Hold to command the Aircraft to fly Sideway to the Left Press and Hold to command the Aircraft to fly Sideway to the Left Press and Hold to command the Aircraft to fly Sideway to the Left Press and Hold to command the Aircraft to fly Sideway to the Left Press and Hold to command the Aircraft to fly Sideway to the Right Press and Hold to command the Aircraft to fly Sideway to the Right Press and Hold to command the Aircraft to fly Sideway to the Right Press and Hold to command the Aircraft to fly Sideway to the Right Press and Hold to command the Aircraft to fly Sideway to the Right Press and Hold to command the Aircraft to fly Sideway to the Right Press and Hold to command the Aircraft to fly Sideway to the Right Press and Hold to command the Aircraft to fly Sideway to the Right Press and Hold to command the Aircraft to fly Sideway to the Right Press and Hold to command the Aircraft to fly Sideway to the Right Press and Hold to command the Aircraft to fly Sideway to the Right Press and Hold to command the Aircraft to fly Sideway to the Right Press and Hold to command the Aircraft to fly Sideway to the Right Press and Hold to command the Aircraft to fly Sideway to the Right Press and Hold to command the Aircraft to fly Sideway t	18 Yaw Control – Right	Rotate Device CW (Clockwise)
21 Directional Control – Forward Press and Hold to command the Aircraft to fly Forward 22 Directional Control – Sideway Right Press and Hold to command the Aircraft to fly Sideway to the Right 23 Directional Control – Backward Press and Hold to command the Aircraft to fly Backward 24 Directional Control – Sideway Left Press and Hold to command the Aircraft to fly Sideway to the Left 25 Hover Button Press to Hover or Long Press to resume Autonomous Operation 26 Power Button Used to turn ON/OFF the remote controller 27 Nano SIM Slot Provides Cellular connection 28 Altitude + Increase Altitude 29 Altitude – Decrease Altitude	19 Terrain Button	Used to Broadcast and Turn ON/OFF Terrain Following
Directional Control – Sideway Right Press and Hold to command the Aircraft to fly Sideway to the Right Directional Control – Backward Press and Hold to command the Aircraft to fly Backward Press and Hold to command the Aircraft to fly Backward Hover Button Press to Hover or Long Press to resume Autonomous Operation Power Button Used to turn ON/OFF the remote controller Nano SIM Slot Provides Cellular connection Altitude + Decrease Altitude	20 RTH Button	Press and Hold this RTH button to initiate Return to Home (RTH)
Directional Control – Backward Press and Hold to command the Aircraft to fly Backward Directional Control – Sideway Left Press and Hold to command the Aircraft to fly Sideway to the Left Hover Button Press to Hover or Long Press to resume Autonomous Operation Power Button Used to turn ON/OFF the remote controller Nano SIM Slot Provides Cellular connection Altitude + Increase Altitude Decrease Altitude	21 Directional Control – Forward	Press and Hold to command the Aircraft to fly Forward
Directional Control – Sideway Left Press and Hold to command the Aircraft to fly Sideway to the Left Hover Button Press to Hover or Long Press to resume Autonomous Operation Used to turn ON/OFF the remote controller Nano SIM Slot Provides Cellular connection Altitude + Increase Altitude Decrease Altitude	22 Directional Control – Sideway Right	Press and Hold to command the Aircraft to fly Sideway to the Right
23 Hover Button Press to Hover or Long Press to resume Autonomous Operation 25 Power Button Used to turn ON/OFF the remote controller 27 Nano SIM Slot Provides Cellular connection 28 Altitude + Increase Altitude 29 Altitude - Decrease Altitude	23 Directional Control – Backward	Press and Hold to command the Aircraft to fly Backward
23 Power Button Used to turn ON/OFF the remote controller 27 Nano SIM Slot Provides Cellular connection 28 Altitude + Increase Altitude 29 Altitude - Decrease Altitude	24 Directional Control – Sideway Left	Press and Hold to command the Aircraft to fly Sideway to the Left
27 Nano SIM Slot Provides Cellular connection 28 Altitude + Increase Altitude 29 Altitude - Decrease Altitude	25 Hover Button	Press to Hover or Long Press to resume Autonomous Operation
23 Altitude + Increase Altitude 23 Altitude - Decrease Altitude	26 Power Button	Used to turn ON/OFF the remote controller
23 Altitude – Decrease Altitude	Nano SIM Slot	Provides Cellular connection
	28 Altitude +	Increase Altitude
30 Power Port Connects to a power source to charge the Remote Controller	29 Altitude –	Decrease Altitude
	30 Power Port	Connects to a power source to charge the Remote Controller

Status Indicator Description

Status Indicator – Battery

☐ INSTRUCTION

When ACS2G is OFF, press the power button once to display the battery level. The battery level is indicated by the 6 Status Indicator.

Status Indicator		Description
1 Solid Green		01% - 04%
2 Solid Green	• •	05% - 19%
3 Solid Green	• • •	20% - 39%
4 Solid Green	\bullet \bullet \bullet	40% - 59%
5 Solid Green	• • • •	60% - 79%
6 Solid Green	• • • • •	80% - 100%

When ACS2G is ON, the battery level indicator display the current battery level.

Battery	Description
Solid Red	01% - 29%
Solid Yellow	30% - 59%
Solid Green	60% - 100%



ACS2G Remote Controller will broadcast "Low Battery" when the remaining power is less than 5% and will automatically switch off after 60 seconds. Please command the drone to return and land immediately before the remote controller is switched off.

Status Indicator – Smart Device

Smart Device	C	Description
Solid Green		Smart Device Connection Normal
Solid Red		Smart Device Connection Error
OFF		Smart Device Not Connected

Status Indicator – Device

Device	38	Description
Solid Green		Device Connection Normal
Solid Red		Device Connection Error
OFF		Device Not Connected

Status Indicator - Control Mode

Control Mode	5	Description
Solid Green		Manual Mode
OFF		Autonomous Mode / No Device

Status Indicator – Terminal

Local Network Terminal	∞	Description
Solid Green		LNT Connected
OFF		Not Connected

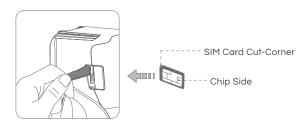
Status Indicator – RTK

RTK	<i>\$</i>	Description
Green Flashing	***	Rover Mode – Float
Solid Green		Rover Mode – RTK
Solid Red		Rover Mode – Position Error
Solid Yellow		ACS2G RTK on Standby Mode
OFF		ACS2G has no RTK Module

Using the Remote Controller

Inserting SIM Card

- 01. Before inserting the nano-SIM Card, please ensure the remote controller is turn OFF.
- 02. Gently unplug the rubber plug on the left of the Remote Controller.
- 03. Insert the nano-SIM card in as the direction shown in the figure.
- 04. Close and Secure the Rubber Plug.





ACS2 uses a nano-SIM. Damages caused by the use of other specifications of SIM will be beared by user



SIM Card is not necessary if operating with LNT

Charging the Remote Controller

Uses a Type-C USB Cable to connect the Charging Adapter and the Remote Controller Power Port. The Battery Level and the mode of charging is indicated by the Battery Level Indicator.



Charging Mode

Status Indicator - Battery		Description
Quick Flash	**********	Quick Charging Mode
Slow Flash	***	Standard Charging Mode



When the charging adapter is applicable with Quick Charging, ACS2G will have a Voice Prompt indicating the Quick Charging Mode and the Indicator flashes more rapidly.

Battery Level (Charging)

Battery	000)	Description
Flashing – Red	***	01% - 29%
Flashing – Yellow	* * * *	30% - 59%
Flashing – Green	***	60% - 99%
Solid Green		100%

Turning the Remote Controller ON/OFF

TURN ON

- 1. Press and Hold the Power Button until all the indicators flash simultaneously.
- Release and then Press and Hold the Power Button again until a Broadcast is heard from the Remote Controller.

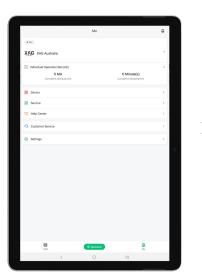
TURN OFF

- 1. Press and Hold the Power Button until all the indicators flash simultaneously.
- 2. Release and then Press and Hold the Power Button again until all indicators are OFF.



Device Binding





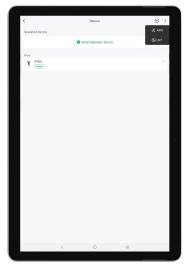
PREREQUISITE

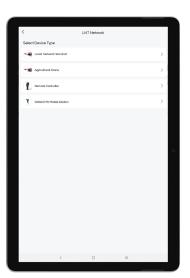
- LNT (Local Network Terminal) Wi-Fi Network had been setup.
- LNT (Local Network Terminal) Wi-Fi Network is Connected before Opening APP.



LNT (Local Network Terminal) must be connected to an external & internet available network indicated by the WAN indicator on the LNT. Device Binding can only be achieved once all the Indicators on LNT is ON.

- 01. Turn ON the Remote Controller & Open XAG One APP.
- 02. Tap on "My" to access Account Menu.
- 03. Tap on "Device".





- 04. Tap on " " for more options, then Tap on " () " for Device Binding.
- 05. Tap on "Remote Controller" to start Binding.

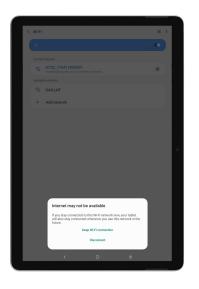


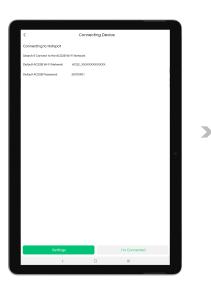


- 06. Tap on "Settings" to bring up the Available Wi-Fi List.
- 07. Select the corresponding ACS2 Wi-Fi.

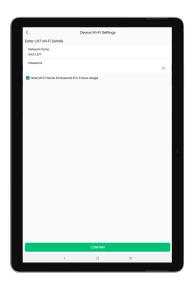
Default ACS2G Wi-Fi Network: ACS2_XXXXXXXXXXX

Default ACS2G Password: 20070401





- 08. After connecting to the ACS2 Module Wi-Fi, Some Smart Device (Mobile / Tablet) may prompt a Notification to stay connected to a Wi-Fi Network without internet connection. Please select "Keep Wi-Fi connection".
- 09. Return to the APP, and Tap on "I'm Connected" to access Equipment Network Settings".



Enter the LNT Wi-Fi Network Name 9
 Password for the LNT (Local Network Terminal), then save the settings via "Confirm".

Default LNT Wi-Fi Network:

XAG-XXXX

Default LNT Password:

20070401



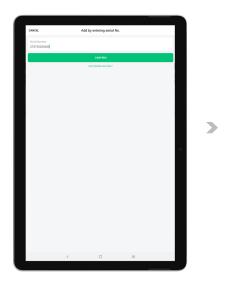
Check & ensure the entered LNT Network Name & Password is Correct, otherwise user will not be able to add the device.

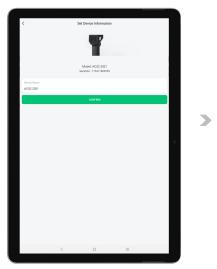




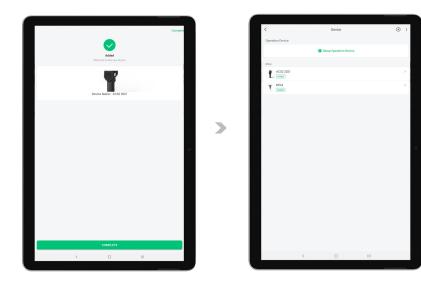
Under Normal Circumstance, your Smart Device (Mobile / Tablet) should have automatically reconnected to the LNT Wi-Fi. Check & Ensure the LNT Wi-Fi Network is connected.

- 11. Return to the Main Page of the APP, Tap on the " (+) " and select "Add a Device".
 - 12. Press and hold the Power Button of the Remote Controller for 6 - 10 seconds and release after all indicators are flashing Red. This indicates that the Remote Controller is now ready to be added.





- 13. Add the Device by Scanning the QR Code on the Device or Enter the Device S/N Manually.
- 14. Rename the Remote Controller, and Tap "Complete" to Save.



- 15. If the APP display " 🔷 ", the Device has been added successfully.
- 16. Return to the Device Menu and check if the Device is displayed in your list of Device.
- 17. Please restart APP once the binding is completed.

Controls

Remote Pilot Aircraft (RPA)

ACS2G Remote Controller has a maximum control distance of up to 800 meters. Try to keep the Remote Controller vertically and the rear-facing the direction of the Aircraft for optimal performance.

TAKE-OFF / LAND



TAKE-OFF: Press and Hold both Altitude Control

Buttons for 3 Seconds, the RPA will automatically take off to a height of 2.5

meters and hover



If any of the button is released within 3 seconds, the command will be cancelled

LAND: Press and Hold both Altitude Control

Buttons to command the RPA to land

Altitude Control



1 Ascent: Press 8 Hold the Altitude + Button

↓ Descent: Press & Hold the Altitude - Button



The minimum safety distance of the RPA in manual control is 2 meters above ground, RPA will not be able to descent once it reaches the height of 2.5 meters above ground

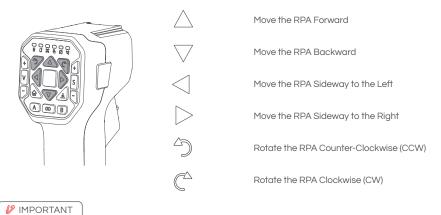
· Return to Home (RTH)



RTH: Press and Hold the RTH Button to command the RPA to return to Take-

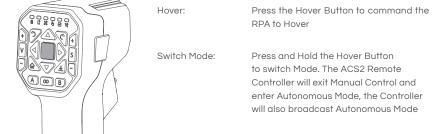
off-Point

Motion Control

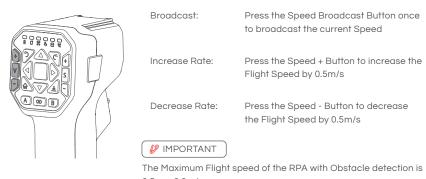


During Autonomous Mode, Manual Mode can be activated by pressing any of the Motion Control Button. The Control Status Indicator will turn Green indicating it is in Manual Mode, and Aircraft Tail Indicator will flash Green twice.

Hover / Switch Mode



Speed Control



0.5m - 6.0m/s

• Spray / Spread Control



Enable/Disable: Press the Spray/Spread Button to turn

on/off the Spraying / Spreading

Increase Rate: Press the Spray/Spread + Button to

Increase the Dosage Rate of Spray/

Spread

Decrease Rate: Press the Spray/Spread + Button to

decrease the Dosage Rate of Spray/

Spread

Terrain Button



Broadcast: Press the Terrain Button Once to

broadcast the current Mode (GPS Height

/ Terrain Follow)

Switch Mode: Quick press the Terrain Button Twice to

switch between GPS Height and Terrain

Follow

Mapping Mode



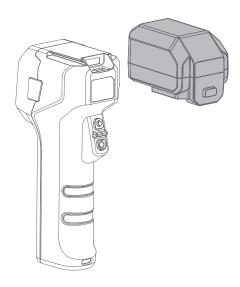


GNSS RTK Module had been attached

(%) :	Enable / Disable Mapping Mode
A:	Add Point
B:	Undo previous Added Point

ACS2 RTK Module

When ACS2G Remote Controller is equipped with ACS2 RTK Module, the ACS2G Remote Controller can be paired with GNSS RTK Mobile Station for Field Planning for XAG Agricultural Drone's Operation Task.



Attaching:

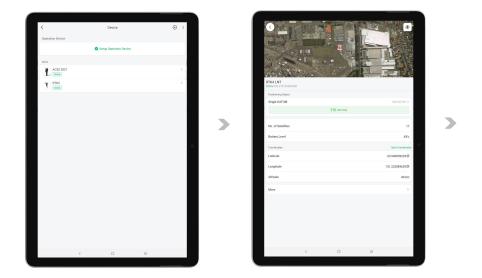
Slide & insert the ACS2 RTK Module onto the top of the ACS2G Remote Controller. When the ACS2G RTK Module is inserted, the ACS2G Remote Controller will broadcast "Module Inserted". ACS2G Remote Controller will then broadcast "Positioning Module Connected" when it is ready for use.

Detaching:

Press and hold the button on the back of the ACS2 RTK Module, then Slide out to detach the ACS2 RTK Module.

Field Planning

Pairing ACS2G with XRTK4 Mobile Station



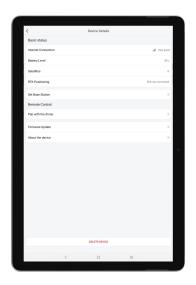
PREREQUISITE

- $\sqrt{}$ LNT (Local Network Terminal) Wi-Fi Network had been setup & Connected
- √ Device binding of XRTK4 Mobile Station had been setup
- √ ACS2 RTK Module had been attached
- 01. Power ON GNSS RTK Mobile Station and ACS2G Remote Controller.
- 02. Tap on "My" to access Account Menu.
- 03. Tap on "Device" and wait for the Remote Controller & Mobile Station is Online.



Please be patient, the devices may take up to several minutes before coming ONLINE.

04. Tap on "Mobile Station" for Mobile Station Device Details and ensure the Positioning Status is now displaying as FIX (Normal).





- 05. Return to the Device Menu & Tap on "Remote Controller" for Device details.
- 06. Tap on "Set Base Station" for Base Station Settings.
- 07. The APP will automatically detect and display the available base station nearby.
- 08. Select the available base station and tap "Connect".





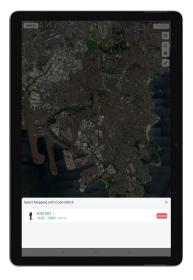
- 09. If the Remote Controller is successfully connected to the Mobile Station, a notification will be displayed.
- 10. Tab on "<" to return to Remote Controller Device details and ensure the following:
 - $\sqrt{}$ RTK Positioning is now "RTK Active".
 - $\sqrt{}$ Set Base Station is now Connected to a Mobile Station (Displaying Station ID such as (#XXXX).
- 11. ACS2G Remote Controller is now paired with RTK Mobile Station and ready to be used as a Rover for Field Mapping.

Create a new field





- 12. Tap on " \bigoplus " to expand the Options menu, then tap on " \bigoplus " Create a new field.
- 13. Tap on " igodeta " to position the map to your current location.
- 14. Tap on " 📅 " to select the Remote Controller for Manual Mapping.





- With ACS2 RTK Module attached, long press "Q" on the remote controller to enable Mapping Mode.
- 16. User will walk and position themselves with the Remote Controller (with RTK Module attached) at the desired location and add Points of the Field Boundary, Obstacles and Non-Spraying Zone. Points can be added via APP or Remote Controller.

Adding Point via APP:

Removing Point via APP:

Adding Point via Remote Controller:

Removing Point via Remote Controller:

field Boundary

Obstacle

Non-Spraying Zone

Press " 🕟 " on APF

Press" (🖒) " on APF

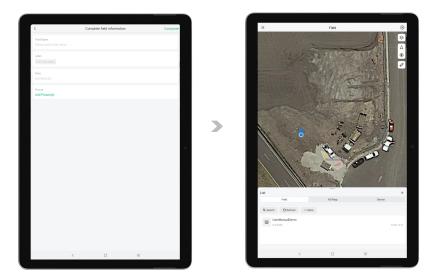
Press Button A on Remote Controller
Press Button B on Remote Controller

Field Boundary are individual points that form an application zone.

Obstacles are individual points that form an area where the RPA will not fly/enter as it has been designated as a potential hazard to the RPA

Non-Spray Zone are individual points that form an area that the RPA may fly over but will be restricted from application

17. Review the Map and the points that had been added, then Tap "Confirm".



- 18. Enter & Insert Field Information, then Tap "Complete" to Save.
- 19. The field has now been created.
- 20. Tap on " i to review the List of Field / HD Map / Device, the field is now available for Route Planning.

Technical Specifications

Model	ACS2G		
Dimensions	76mm x 60mm x 177mm		
IP Rating	IP54		
Operating Frequency	2.4GHz / 5.8GHz		
Transmitting Power (EIRP)	2.4GHz 5.8GHz	SRRC≤20dBm; SRRC≤26dBm;	
Supported Operating System	Android, IOS		
Build-in Battery	5000mAh / 37Wh		
Charging Temperature	0° C to 45° C		
Operating Temperature	-20°C to 55°C		
Storage Temperature	-20° C to 20° C -20° C to 45° C -20° C to 55° C	< 1 Month 1 – 3 Months 3 – 12 Months	
Max Transmission Distance (Unobstructed, free of interference)	800 Meters		
Charging Voltage / Current	05V / 2A 09V / 1.5A 12V / 1.5A		
Mesh Network	Supported		
Voice Broadcast	Supported		
RTK Operating Frequency	GPS: GLONASS: BDS:	L1/L2 L1/L2 B1/B2	
	Galileo:	E1/E5b	
Positioning Accuracy (With strong RTK Signal) Warranty Details	Galileo: Vertical: Horizontal: 12 Months	E1/E5b < 5.0cm + 1ppm (RMS) < 7.5cm + 1ppm (RMS)	

