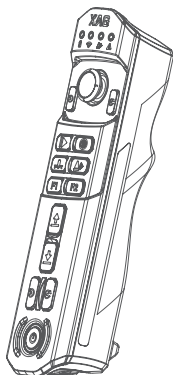# XAG Agricultural Control Stick 4 User Manual

Version 1.0 **EN**

To User

Dear user, thank you for choosing XAG's products.
For safety purposes and better user experience, it is highly recommended that you read this manual carefully and strictly follow the instructions hereof.

Contact Us

Manufacturer: Guangzhou Xaircraft Technology CO., LTD.
Add: XSpace, No.115, Gaopu Road, Guangzhou, Guangdong Province, China
Technical Support Team: support@xa.com

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Introduction

XAG Agricultural Control Stick 4 (ACS4) is the next-generation remote controller for the XAG P150 and P60 2024 Agricultural Drones. It offers smooth maneuvering even without the app, making it a powerful tool for efficient manual drone operation.
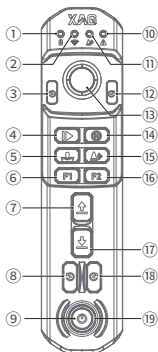
List of Items

Please see that all of the following items are present when unpacking the boxes. Should there be any item missing, please contact your seller immediately.
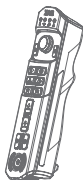
Agricultural Control Stick 4
×1

Overview

① Battery Level
   Indicator
② Device Connection
   Indicator
③ Turn Left
④ Hover/Resume
⑤ Spray Switch
⑥ Function Button 1

⑦ Ascend
⑧ Turn Left
⑨ Power Button
⑩ Warning Indicator
⑪ Obstacle Avoidance
   Indicator
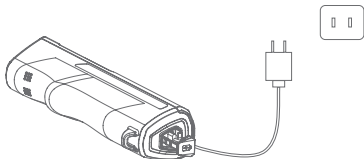⑫ Turn Right
⑬ Joystick

⑭ RTH
⑮ Obstacle Avoidance
   Switch
⑯ Function Button 2
⑰ Descend
⑱ Turn Right
⑲ Joystick Lock Indicator

How to Use

Charge

Connect the Type-C end to the ACS4 charging port and the USB end to the adapter, then plug it into a power source. When you hear the "Charging complete" prompt and the power indicator turns solid green, the ACS4 is fully charged.

⚠Warning

⚠ ACS4 is specially designed for XAG's products. Using it with non-XAG products may result in functional incompatibility. Any resulting loss or liability will be the user's sole responsibility.

⚠ USB-C power adapter is not compatible with ACS4.

⚠ The device is not waterproof. Avoid water exposure during charging and use. The user are responsible for any damage caused by water ingress.

⚠ When using ACS4 to operate the drone, if the drone's battery level drops below 20%, the ACS4 warning indicator will blink red and a voice prompt will announce "Drone battery low". Please ensure the drone remains within visual range and monitor its status closely. Follow the prompts and initiate Return-to-Home (RTH) or perform a forced landing promptly if necessary.

Add ACS4

To get started, please add the ASC4 to XAG One by following the steps below.

1. Open XAG One, go to the home screen, tap ⊕ at the top right, then select "Add a Device". Alternatively, you can add it via "Me" > "Device" > " ⊕ ".

2. Scan the control stick's QR code or enter its serial number to add it.

3. Enter the control stick's name and tap OK to complete adding.

Bind ACS4

To operate the drone with the ACS4, please bind the added control stick by following the steps below.

1. Open XAG One, then navigate to "Me" > "Device" to view the device list. Select the drone you want to bind with the control stick.

2. In "Device Details" > "General", tap "Bound Remote Controller".

3. Select the control stick to bind, tap "Bind", and you will be ready to operate the drone. For detailed instructions, pleae refer to pages 5-9.

⚠ Warning

⚠ Ensure the drone is powered on and added to the app before binding the control stick.

Joystick Calibration

If needed, follow the steps below to calibrate the joystick.

1. Open XAG One, then navigate to "Me" > "Device" to view the device list. Select the control stick you want to calibrate the joystick for.

2. Go to "Device Details", select "Joystick Calibration", and tap "Start Calibration".

3. Calibrate following the instructions. "Calibration Completed" will appear when done.

Firmware Update

Check for firmware updates before use and keep it updated if a new version is available.

1. Open XAG One, go to "Me" > "Device". Select the control stick used for operation, view device details, and tap "Firmware Update" to check for updates.

2. When updates are available, tap "Download and Install". After the installation completes, tap "Complete". Then, return to the firmware update screen to check if all firmware is up to date. If not, please repeat the previous steps.

Use of ACS4

When maneuvering a drone with ACS4, ensure that the Wi-Fi antenna on the top of ACS4 is always facing the drone and that it is not obstructed, so that signals will not be blocked.
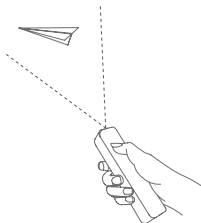
⚠ Note

⚠ When maneuvering a drone with ACS4, ensure the flight environment is open, maintain a safe distance from the drone, and keep the drone away from crowds, animals, or other obstacles.

⚠ For safety, when maneuvering a drone with ACS4, the operator must keep the drone within their visual range, monitor the drone's flight route and surroundings for obstacles, and promptly maneuver the drone to avoid any obstacles to prevent accidents.

ON/OFF
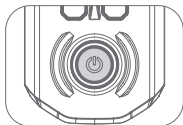
- When the ACS4 is OFF, press and hold ◉ for 2 seconds until you hear "XAG", indicating successful power on.
- When the ACS4 is ON, press and hold ◉ for 2 seconds until you hear "Power Off", indicating successful power off.

Takeoff
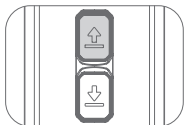
- Short press 🔼 once, release, then press and hold 🔼 until you hear "The drone is about to take off". The propellers will start idling, continue to hold the button until the drone takes off (or press and hold both 🔼 and 🔽 simultaneously, and the drone will automatically take off and hover at a height of 2.5 meters).

⚠ After takeoff, the propellers will enter idle status. Maintain a safe distance from the drone.

⚠ After the propellers enter idle status, if the button is released within 5 seconds without a timely takeoff, the drone will automatically lock, and the propellers will stop spinning.

Landing
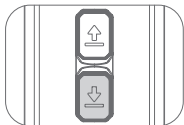
- During flight, press and hold 🔽 until the drone lands smoothly and the propellers stop spinning (or, during flight, press and hold both 🔼 and 🔽 simultaneously to land the drone).

Joystick Lock

- Short press ⊙ to lock the joystick, and the joystick lock indicator will turn solid red. Short press ⊙ to unlock the joystick, and the joystick lock indicator will turn solid green.

⚠ When locked, you cannot control the drone with the joystick, such as ascending, descending, and turning left/right.

⚠ ACS4 will save the lock/unlock status, and the status will remain the same after powering on as it was before the last power-off.

One-Tap Operation

- Short press ▷ once, release, then press and hold ▷ to enable One-Tap Operation.

⚠ When the drone is on the ground, One-Tap Operation can be used to maneuver the drone to take off and continue the operation at the break point of the flight route.

⚠ When the drone is on the ground and the One-Tap Operation is enabled, after the propellers enter idle mode, if the button is released within 5 seconds without a timely takeoff, the drone will automatically lock, and the propellers will stop spinning.

Ascend/Descend
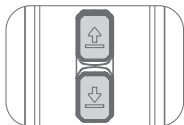
- During flight, short press 🅐/🅐 to make the drone ascend or descend to a certain height; press and hold 🅐/🅐 to make the drone ascend or descend continuously.

⚠ When maneuvering the drone to ascend/descend, ensure that no one is within a 10-meter radius of the drone.

⚠ When controlling the drone manually, ensure the drone's nose always facing directly in front of you.

Pitch/Roll
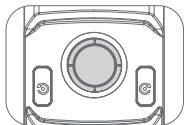
- After the joystick is unlocked, maneuver the drone by joystick to fly backward, forward, left and right.

Yaw
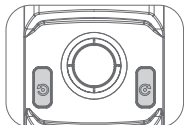
- Short press 🅐/🅐 the drone will turn left or right by a certain angle; press and hold 🅐/🅐, the drone will continuously turn left or right.

Hover/Resume Operation
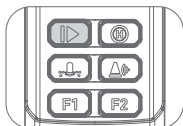
- Short press ▶, the drone will execute the hover command; press and hold ▶ to resume the operation.

⚠ Resume/pause operation is performed when the drone is in the air to control the drone to pause or resume operation.

RTH
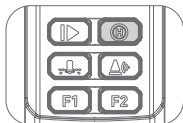
- Press and hold ◉ to enable RTH.

⚠ When maneuvering the drone with ACS4 to return to home, ensure that there is no one under the return route.

Enable/Disable Obstacle Avoidance
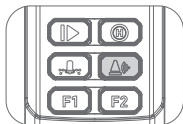
- Press and hold ◢ to enable Obstacle Avoidance; the indicator light will turn solid green. Short press ◢ to disable the Obstacle Avoidance; the indicator light will turn off.

Enable/Disable Spraying

- Press and hold 🔧 to start spraying, and short press 🔧 to stop spraying.

⚠ Spraying cannot be performed in hover status.

Status Indicator

Battery Level 🔋	Description
Solid Red	Battery level between 1% and 20%; please charge
Solid Yellow	Battery level between 21% and 50%
Solid Green	Battery level between 51% and 100%
Device Connection 📶	Description
Solid Green	Connected to the drone
OFF	Not connected to the drone
Obstacle Avoidance 🛆	Description
Solid Green	Obstacle avoidance ON
OFF	Obstacle avoidance OFF
Warning ⚠	Description
Blinking Yellow	General warning
Blinking Red	Severe warning
OFF	Normal; no warning
Joystick Lock	Description
Solid Red	Joystick locked
Solid Green	Joystick unlocked

Specifications

Model	M3ACS4A
Dimensions	167.5×39.5×48 mm
Operating Frequency	2.400 GHz ~ 2.4835 GHz
Effective Isotropic Radiated Power (EIRP)	2.400 GHz ~ 2.4835 GHz: ≤33 dBm (FCC) ≤20 dBm (CE/SRRC/MIC)
Built-In Battery Capacity	2600 mAh / 3.7 V
Charging Ambient Temperature	5℃ ~ 40℃
Operating Ambient Temperature[1]	-10℃ ~ 40℃
Storage Ambient Temperature	-20 ℃ ~ 25 ℃ (> 3 months, < 1 year) -20 ℃ ~ 45 ℃ (> 1 month, < 3 months) -20 ℃ ~ 55 ℃ (< 1 month)
Signal Range (No Interference/Obstruction)	400 m
Charging Voltage/Current	5 V/2 A
Voice Prompt	Yes
Compatible With	XAG P150 2024 Agricultural Drone XAG P60 2024 Agricultural Drone

[1]: A drop in the remote controller's battery performance may occur when the operating ambient temperature is below -5℃ .

Disclaimer

1. Please read this Disclaimer carefully before using this product, as it has much to do with both operational safety and your legitimate rights and interests. You shall be deemed to have read, known, understood, agreed to and accepted all the terms and conditions as well as information stated herein upon the use of this product.

2. Not being a toy, this product is not suitable for those who are under 18 years old and those who have no or limited capacity for civil conduct, or with mobility impairments under the law. Please keep children away from this product and be particularly cautious with children present.

3. You undertake to use the product within the bounds of the law for legitimate purposes only and agree to the terms stated in this User Manual.

4. Please install and use the product under the instructions in this User Manual. Do NOT modify or disassemble this product on your own as any financial or legal liability arising therefrom will be solely borne by the user.

5. To the maximum extent permitted by law, XAG shall not be liable for any loss caused by your use of this product outside the instructions in this Disclaimer and User Manual. Furthermore, XAG shall not be liable for any indirect, consequential, punitive, accidental, special or exemplary damage, including any loss incurred as a result of your purchase, use, or inability to use the product, even if you have been advised of the possibility of such loss.

6. You understand that in the use of any products, accidents may occur as a result of a single or combined factors, including but not limited to improper operation, surroundings and communication networks. You understand that the aforesaid accidents are reasonable and acceptable in the use of the product, and that XAG shall not be held accountable for such accidents.

7. To the maximum extent permitted by law, under any circumstances, the liability or compensation amount from XAG to you for all damage, losses and litigation arising therefrom will not exceed the amount that you paid to XAG for purchasing the product.

8. On any account, purchaser or user shall comply with the laws and regulations of the country and region where the product is used. XAG shall assume no liability arising from the violation of relevant laws and regulations by the purchaser or user.

9. As exclusion clauses may be prohibited by law in some countries, your rights in different countries may vary. However, this does not imply that partial or all terms contained in this Disclaimer are necessarily invalid.

10. To the extent permitted by law, XAG reserves the right for final explanation and revision of the terms and conditions stated hereinabove. XAG also has the right to update, modify or terminate these terms and conditions via its official website, User Manual, online App, etc., without prior notice.

Warning

Users are required to read through the User Manual and be fully familiar with the operation of this product before operating it. Otherwise, improper operation of the product may cause injury to the user or others, or cause damage to the product and property loss. Safety awareness is of great importance during operation. Do NOT use the parts that are not provided or suggested by XAG. Please install and use the product in strict accordance with XAG's instructions.

Compliance Information

FCC/ISED Compliance Notice

This device complies with Part 15 of the FCC Rules and ISED licence-exempt RSS standard.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.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Cet appareil est conforme à la section 15 du règlement de la FCC et à la norme RSS sans licence ISED. Son utilisation est soumise aux deux conditions suivantes:

(1) Cet appareil ne doit pas causer d'interférences nuisibles, et (2) Cet appareil doit accepter toutes les interférences reçues, y compris celles susceptibles de provoquer un fonctionnement indésirable.

Tout changement ou modification non expressément approuvé par la partie responsable de la conformité peut annuler le droit de l'utilisateur à utiliser l'équipement.

The remote control cannot be used on your lap, and that it should only be used hand-held.

RF Exposure Information

For Remote Controller (model:M3ACS4A),SAR tests are conducted using standard operating positions accepted by the FCC/ISED with the device transmitting at its highest certified power level in all tested frequency bands, although the SAR is determined at the highest certified power level, the actual SAR level of the device while operating can be well below the maximum value. Before a new model is a available for sale to the public, it must be tested and certified to the FCC/ISED that it does not exceed the exposure limit established by the FCC/ISED, Tests for each product are performed in positions and locations as required by the FCC/ISED. For Handheld operation, this device has been tested and meets the FCC/ISED RF exposure guidelines when used with an accessory designated for this product or when used with an acces sory that contains no metal.

Informations sur l'exposition RF

L'aéronef est conforme aux limites d'exposition aux rayonnements FCC/ISED établies pour un environnement non contrôlé. Afin d'éviter tout risque de dépassement des limites d'exposition aux radiofréquences FCC/ISED, la proximité humaine de l'antenne ne doit pas être inférieure à 0 cm en fonctionnement normal.

Pour le contrôleur à distance (modèle M3ACS4A), les tests SAR sont effectués sur des positions de fonctionnement standard acceptées par la FCC/ISED, le dispositif émettant à son niveau de puissance certifié le plus élevé dans toutes les bandes de fréquences testées, bien que le SAR soit déterminé au niveau de puissance certifié le plus élevé, le niveau de SAR réel de l'appareil en cours d'utilisation peut être bien inférieur à la valeur maximale. Avant qu'un nouveau modèle ne soit disponible à la vente au public, il doit être testé et certifié conforme par la FCC/ISED qu'il n'excède pas la limite d'exposition établie par la FCC/ISED. Les tests de chaque produit sont effectués à requis par la FCC/ISED. En mode portatif, cet appareil a été testé et respecte les directives d'exposition RF de la FCC/ISED lorsqu'il est utilisé avec un accessoire conçu pour ce produit ou avec un accessoire ne contenant pas de métal.

Pour le fonctionnement sur le corps, la télécommande (modèle M3ACS4A) a été testée et répond aux directives d'exposition RF de FCC/ISED lorsqu'elle est utilisée avec un accessoire conçu pour ce produit ou avec un accessoire ne contenant pas de métal et positionnant le combiné au minimum de 0 cm du corps.

Le non-respect des restrictions ci-dessus peut entraîner une violation des consignes d'exposition aux RF.

EU Compliance Statement:Guangzhou Xaircraft Technology CO.,LTD.All Rights Reserved.hereby declares that this device is in compliance with the essential requirements and other relevant provisions of the RED Directive. This equipment must be installed and operated in accordance with provide instructions and the antenna used for this transmitter must be installed to provide a separation distance of at least 0 cm from all persons and must not be co-located or operation in conjunction with any other antenna or transmitter.End-users and installers must be provide with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance.

$$C \, \epsilon \quad \boxtimes$$

Warning: Operation of this equipment in a residential environment could cause radio interference.

"Hereby, *[Guangzhou Xaircraft Technology CO.,LTD.],* declares that this *[XAG Agricultural Control Stick 4]* is in compliance with the essential requirements and other relevant provisions of *2014/53/EU.*

The full text of the EU declaration of conformity is available at the following internet address:

www.xa.com/en/service/downloads"

For the countries that adopt the SAR limit of 4.0 W/kg over 10 grams of tissue. The device complies with RF specifications when the device is Hand-held.

Importer Name(EU) : NIK ELECTRONICS LTD

Importer Address (EU) : *Sofia, 11B Brussels Blvd., fl.13*

Importer phone number and / or internet contact information : *00359899952228*

KCC Warning Message

해당무선설비는운용중전파혼신가능성이있

해당무선설비는전파혼신가능성이있으므로인명안전과관련된서비스는할수없음

FCC Importer's Declaration of Conformity

Brand name / model number : M3ACS4A

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.

Importer Name (USA) : Pegasus Spray Inc

Importer Address (USA) : 18571 State Hwy 6Lewistown, MO 63452 United States

Importer phone number and / or internet contact information : +1 (503) 866-1228

Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: 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 dealer or an experienced radio/TV technician for help.

NCC statement

取得審證證明之低功率射頻器材，非經核准，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。低功率射頻器材之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。前述合法通信，指依電信管理法規定作業之無線電通信。低功率射頻器材須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

Without permission granted by the NCC, any company, enterprise, or user is not allowed to change frequency, enhance transmitting power or alter original characteristic as well as performance to a approved low power radio-frequency devices. The low power radio-frequency devices shall not influence aircraft security and interfere legal communications; If found, the user shall cease operating immediately until no interference is achieved. The said legal communications means radio communications is operated in compliance with the Telecommunications Management Act. The low power radio-frequency devices must be susceptible with the interference from legal communications or ISM radio wave radiated devices.

減少電磁波影響，請妥適使用。
電波功率密度 MPE 標準值: 0.9mW/cm^2，送測產品實測值: 0.088 mW/cm^2，建議使用時設備天線至少距離人體 20 公分。
警告使用者: 此為甲類資訊技術設備，於居住環境中使用時，可能會造成射頻騷動，在此種情況下，使用者會被要求採取某些適當的對策。
取得審證證明之低功率射頻器材，非經核准，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。低功率射頻器材之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用，前述合法通信，指依電信管理法規定作業之無線電通信低功率射頻器材須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

overseas@xa.com

@XAGofficial

@xag_official

@XAG Official

XAG ADVANCING AGRICULTURE This manual is subject to update without prior notice.