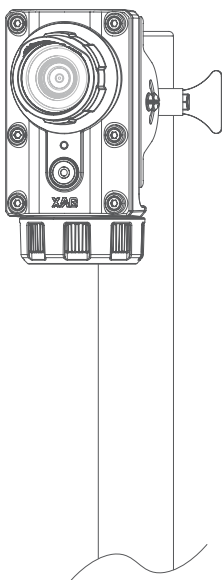


XAG FC5 Farm Camera

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

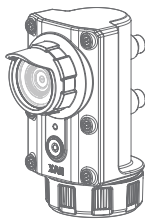
Technical Support Team: support@xa.com

Introduction

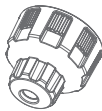
The XAG FC5 Farm Camera (hereinafter referred to as the "camera") is an intelligent agricultural device designed to collect image data from agricultural production sites. Its online scheduled capture feature enables real-time image collection. Users can remotely access critical agricultural production information by viewing the photos through the XAG Farm App.

List of Items

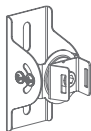
Please see that all of the following items are present when unpacking the box. Should there be any item missing, please contact your seller immediately.



FC5 Farm Camera (Lithium Battery Included)
X 1



Waterproof Connector^[1]
X 1



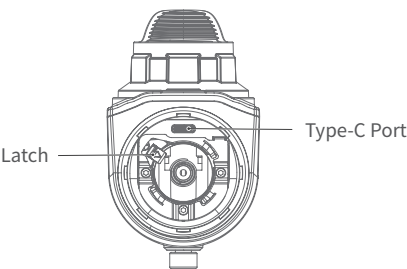
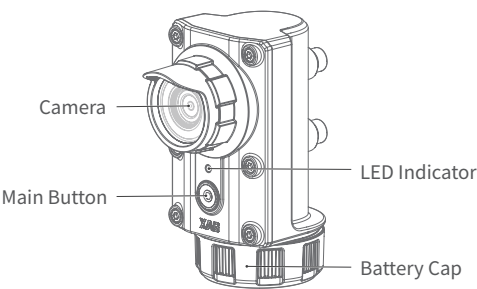
Bracket
X 1



Clamp
X 1

[1]: The waterproof connector includes a silicone seal and a claw compression gland.

Main Components



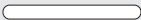
Bottom View

Button Description

Device State	Action	Description
Standby	Short Press	Wake the device and get ready for operation
Active	Short Press	Take a photo and upload it to the local server
Any State	Long Press	Activate Bluetooth pairing mode

Indicator Description

The state of camera can be identified by its indicator, defined as follows:

Indicator		Description
Off		Standby, device in sleep mode
Slow Flashing Yellow		Connecting to the network
Solid Red		Network connection/photo capture failed
Slow Flashing Green		Connected to network
Slow Flashing Blue		Enabling Bluetooth
Fast Flashing Green		Capturing
Solid Green		Capture successful

How to Use

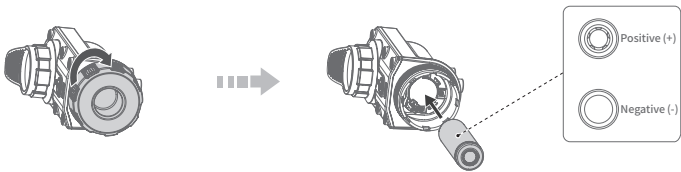
Power Supply

The camera can be powered by either lithium battery power or utility power.

Lithium Battery Power

Installation: Remove the battery cap by rotating it counterclockwise. Peel off the paper insulation from the lithium battery's positive terminal, make sure the negative terminal of the battery is facing inward, and tighten the cap until the LED indicator lights up.

Removal: Remove the battery cap by rotating it counterclockwise. Flip the latch and the battery will automatically eject.

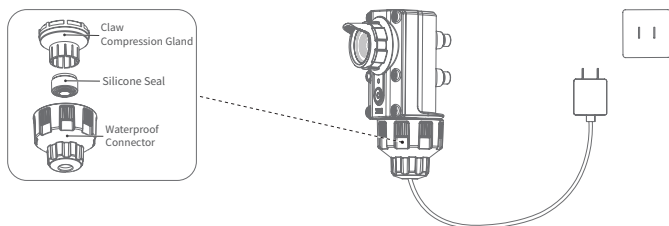


Warning

-  Please carefully check the battery terminals to ensure correct installation.
-  Only **21700** ternary lithium-ion rechargeable batteries should be used. Do not use other types of batteries.
-  Avoid replacing batteries in foggy or dusty weather to prevent moisture or dust from entering the battery compartment, which may affect the device's lifespan.
-  Do not use batteries that are swollen, or have damaged insulation protection.

Utility Power ^[1]

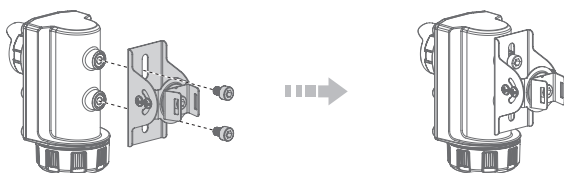
- ① Remove the battery cap by rotating it counterclockwise.
- ② Take out the silicone seal and the claw compression gland from the waterproof connector.
- ③ Pass one end of the Type-C cable through holes of the waterproof connector, silicone seal, and claw compression gland, and insert it into the charging port at the bottom of the camera. Plug the other end into the power adapter, then connect it to a power source. When the LED indicator lights up, the power supply is functioning correctly.



[1]: The Type-C cable and power adapter are not included in the package and must be purchased separately.

Install Bracket

Unscrew the two M6 screws on the back of the camera. Align the bracket with the screw holes, reinstall the screws to secure the bracket to the camera.



Download "XAG Farm" App



Android Users: Scan the QR code above to download and install the "XAG Farm" App

iOS Users: Search for "XAG Farm" in the App Store to download and install

Add Device

For first-time use of the camera, follow these steps to add it to the XAG Farm App:

1. Open the XAG Farm App, register with your phone number, and log in.
2. Press and hold the camera's main button for more than 5 seconds until the LED indicator flashes blue, indicating pairing mode.
3. On the "Farm  " screen of the App, tap the icon  in the top-right corner and select "Add Device  " (or go to the "Farm" screen, tap "Device", then tap the icon  on the right and choose "Add Device").
4. After scanning the device, select the product matching the camera's serial number, and tap "Add".
5. When the message "Added successfully" appears, the camera has been added.

Firmware Update

Check if the firmware is up to date before use. If not, update it to the latest version as follows:

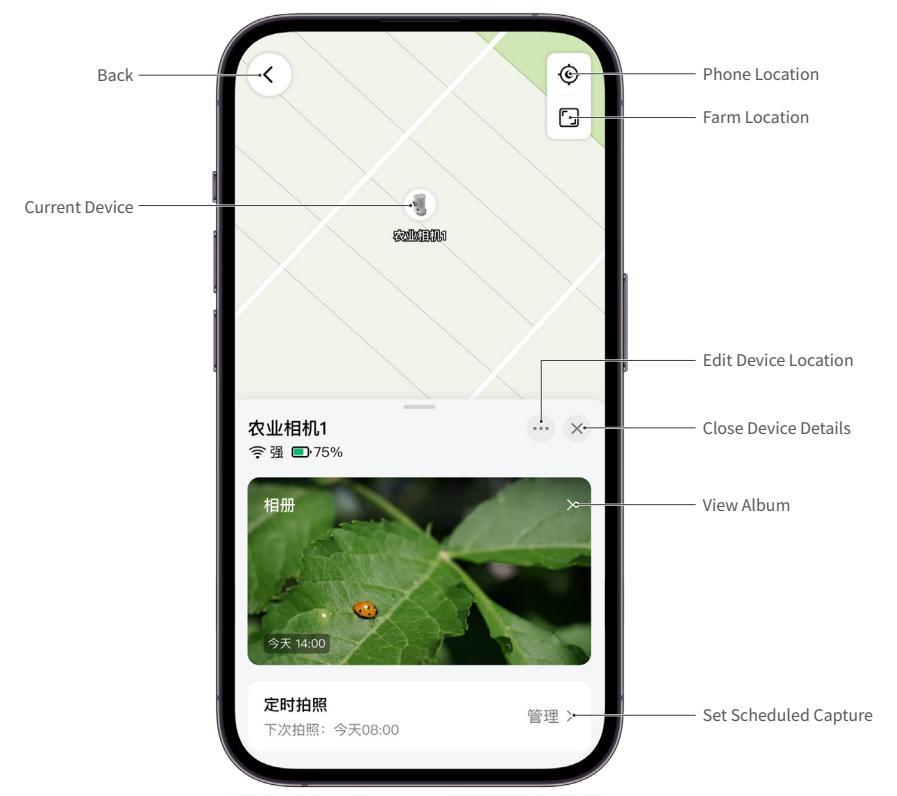
1. On the "Farm  " screen of the App, tap "Devices", tap the icon  on the right, select "Device Settings  ", tap "Firmware Update," select the appropriate camera, and tap "Online Update".
2. If an update prompt appears, tap "View Details," select the appropriate camera, and tap "Online Update". Once the update completes, tap "Done" to return to the device list and verify that all camera firmware is up to date. If not, repeat the above steps until all updates are installed.

Note

-  Ensure the XAG Farm App is up to date before adding a device.
-  Complete the farm network setup and local server configuration in the XAG Farm App before adding a device. Refer to the XAG FS1 Local Server User Manual for setup instructions.
-  Ensure there are no obstructions between the camera and the local server or wireless relay. Also, enable location and Bluetooth permissions on your phone for the XAG Farm App.
-  Keep your phone near the camera with Bluetooth enabled and connected to the local server Wi-Fi to discover nearby devices during the device addition process.

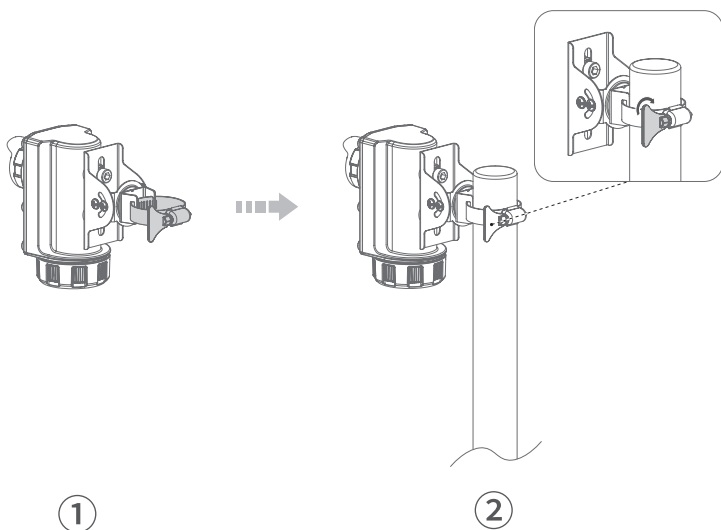
App UI

After the device is added to the farm, tap on "Device" in the "Farm  " screen to access the Device List. Below is the introduction to the Camera Operation Details screen.



Install Camera

- ① Pass the clamp through the rear hole of the bracket.
- ② Mount the camera vertically on the top of the pole, and tighten the knob on the clamp to secure the camera.



Note

- ⚠ The pole used for installation is not included and must be purchased separately by the user. It is recommended to use a round pole with a diameter of 33–50 mm. The model shown in the user manual is for reference only. Please refer to the actual product.
- ⚠ Ensure the pole is securely installed and remains vertical. Tighten the clamp to prevent movement of the camera.
- ⚠ The installation height, orientation, and tilt angle of the camera can be adjusted according to the actual working scenario and photography content.

Maintenance

- Regularly check the battery's condition. Replace the battery promptly if leakage or swelling is found.
- Clean the camera lens regularly. It is recommended to use a lint-free cloth to wipe off any dirt or debris on the lens.

Transport and Storage

Transport

- Before transporting the camera, the battery must be removed from the camera's battery compartment.
- When transporting the camera, it must be securely placed. If necessary, use shock-absorbing materials to wrap the camera tightly to prevent collisions or accidents during transportation.
- When transporting the battery, it must be securely placed. If necessary, use shock-absorbing materials to wrap the battery tightly to prevent collisions or accidents during transportation.
- Do NOT place the battery near heat sources or in high-temperature sealed environments, such as a hot, sealed vehicle or cabin.
- Do not transport the battery while it is hot. Wait for the battery to cool to room temperature before transportation.
- The environment for transporting the battery should be dry. Do NOT place the battery in a damp environment.
- Do NOT place or transport the battery with flammable, explosive materials, or metal objects.
- Do NOT charge or discharge the battery during transportation.
- Do NOT transport batteries that are swollen, leaking, or visibly damaged, as they may pose safety hazards.

Storage

- When the camera is idle, remove the battery from the battery compartment and store it horizontally in a safe, cool place.
- Do not mix normal batteries with faulty batteries.
- Store the battery in an open environment, ensuring there are no flammable materials, debris, or devices that may cause electrical sparks (such as charging devices, electrical switches, or power sources) within a 10-meter radius.
- The battery storage area must be clearly designated and marked, and should be managed by designated personnel.

Battery Safety Instructions

- The battery should be used in an environment with a temperature range of 0° C to 45° C. Using the battery in high temperatures (above 45° C) may cause the battery to catch fire or even explode.
- Do NOT connect the battery's positive and negative terminals with wires or other metal objects, as this may cause a short circuit.
- If the battery terminals have liquid or foreign objects, clean them immediately and keep the terminals dry and clean to prevent poor contact, which could lead to energy loss or charging failure.
- Handle the battery with care. Do NOT disassemble, puncture, or apply pressure to the battery, including but not limited to the actions such as sitting or standing on the battery, placing heavy objects on top of it, or any actions that apply pressure to the battery or cause external stress on it.
- Regularly check the exterior of battery. Do NOT clean charging devices with flammable agents. Do NOT use damaged charging devices.
- When charging, ensure that the charging device is placed in an environment free of flammable, explosive, or combustible materials, and avoid charging in a closed, confined space. A responsible person must be present during charging to prevent accidents.
- The battery should be stored in a dry environment with an appropriate temperature^[1]. Do not store the battery in places exposed to water, humidity, or direct sunlight.
- The liquid inside the battery is highly corrosive. If the liquid comes into contact with skin or eyes, immediately flush with water and seek medical attention.
- If a short circuit occurs during charging, immediately disconnect the power supply and place the battery on the ground or in a fire bucket. Use an asbestos blanket (or equivalent material) to cover the battery flames and extinguish them by covering with fireproof sand to isolate the air.
- When disposing of the battery, comply with local laws and regulations and do NOT discard the battery arbitrarily.

[1]: Battery Storage Temperature: -20° C to 23° C (more than 3 months, less than 1 year), -20° C to 45° C (more than 1 month, less than 3 months), -20° C to 60° C (within 1 month).

Precautions

- Before use, please ensure that both the firmware and the "XAG Farm" app are up to date.
- Keep the battery compartment clean and avoid contact with metals, electrolytes, corrosive liquids, or any foreign objects that could damage the battery or conductive contacts.
- Do not submerge the battery compartment in water, and never throw devices with batteries into fire
- Keep the product away from heat sources to prevent damage to its electronic components or other parts, or to avoid hazards like fire.
- During installation, ensure proper safety measures are taken to prevent the device from falling, which could cause personal injury or accidents.
- Any human-caused malfunctions or damage, including those resulting from users' failure to use, store, transport, or maintain the product in accordance with the user manual, are not covered by the warranty.
- To protect the rights of users outside the Chinese mainland, distributors/dealers, and XAG, products not purchased through officially authorized channels may experience network connectivity issues or usage restrictions outside the Chinese mainland. Please ensure that you purchase XAG products through official channels in your region.

Specifications

Model	13IFC-5A
Dimensions	194×148×93 mm
Weight	0.42 kg
Camera Resolution	5 MP
Camera Focal Length	4 mm
Camera Field of View (FOV)	107 ° (diagonal)
Bluetooth Protocol	Bluetooth 5.0
Wi-Fi Standards	802.11 b/g/n, 2.4 G
Battery Type	21700 lithium battery
Power Supply Voltage	5 V
Peak Power	2 W
Interface Type	USB Type-C
IP Rating	IP66
Operating Ambient Temperature	-20 °C ~ 60 °C

FCC Compliance Notice

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.

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.

"FCC RF Radiation Exposure Statement Caution: To maintain compliance with the FCC's RF exposure guidelines, place the product at least 20cm from nearby persons."

This equipment complies with FCC and Canada & CE radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator and your body.

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 20cm 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.



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

“Hereby, *[Guangzhou Xaircraft Technology CO.,LTD.]*, declares that this *[FC5 Farm Camera]* 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”

Suppliers Name(EU): NIK ELECTRONICS LTD

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

Suppliers phone number and / or internet contact information: 00359899952228

KCC Warning Message

이 기기는 업무용 환경에서 사용할 목적으로 적합성 평가를 받은 기기로서 가정용 환경에서 사용하는 경우 전파 간섭의 우려가 있습니다 .

FCC Supplier's Declaration of Conformity

Brand name / model number: 13IFC-5A

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.

Suppliers Name(FCC): Pegasus Spray Inc

Suppliers Address (FCC): 18571 State Hwy 6 Lewistown, MO 63452, United State

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

NCC statement

取得審驗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/cm²，送測產品實測值：0.088 mW/cm²，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。

取得審驗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。

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 and with certain safety risks, this product is not suitable for those who are under 18 years old, those who have limited or no capacity for civil conduct, or those with mobility impairments.
3. This product is in the XAG Smart Farm series solely designed for agricultural use. Be sure to read the User Manual carefully before using this product to understand your legitimate rights and interests, responsibilities as well as safety guidelines. Otherwise, property damage and accidents could be caused; personal safety could be at risk.
4. You undertake to use the product within the bounds of the law for legitimate purposes only and agree to the terms and conditions stated herein as well as potential related policies and norms formulated by XAG. You understand and accept that records created during use may be saved to a server. XAG shall resume no responsibility for the failure to save records for any reason attributable to the user.
5. To the maximum extent permitted by law, under no circumstances shall XAG offer an implicit or explicit guarantee for this product, including but not limited to implicit guarantees pertaining to vendibility, fitness for a particular use, or non-infringement.
6. Please install, use, transport, and maintain the product under the instructions in this User Manual. Do NOT modify, convert, or disassemble this product on your own as any malfunction or damage arising therefrom or resulting from your improper use will not be covered by the warranty, and you shall solely assume the liability arising therefrom, both financially and legally.
7. 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 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.
8. 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.
9. On any account, purchasers or users 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 the laws and regulations of the location where the product is used by the purchaser or user.
10. As exclusion clauses may be prohibited by certain laws and regulations, your rights may vary. However, this does not imply that certain or all terms contained in this Disclaimer are necessarily invalid. For any reason that partial terms stated herein are deemed void, other terms shall remain in effect.
11. 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

Before using this product, user is required to read through the User Manual. Improper operation may cause injury to user or others, or cause damage to the product and property loss, and any financial or legal accountability arising therefrom shall be borne by the user. Safety awareness is of great importance during operation. Please install, maintain, and legally use the product by strictly following the instructions in the User Manual.



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