

User Manual

4G AOV Dual-Lens Solar Security Camera



INSEECam

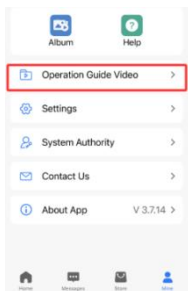


Make sure to read through this manual before you start using the device, and hang onto it for future use.

V1.0

Video Tutorials

Scan QR code for Setup & FAQ



Note: Can't scan the QR code? Go to inseecam.net → [Support](#) for videos, or check [Operation Guide Video](#) on the [Mine page](#) or the Video section on the Home screen.

Thank you for your purchase! Any problem
please send us messages!

Email: support@inseecam.net

WhatsApp: +86 13318775092

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1. What's Inside The Box



Camera



Bracket



Solar Panel



Screws



Mounting plate



User Manual



Reset
Tweezers

Auxiliary



Charging Cable



4G SIM

2. Always-On Video (AOV)

Why Choose AOV?

AOV (Always-On Video) is a low-power technology that enables true 24/7 video recording without draining energy. Unlike motion-triggered or time-lapse systems, AOV offers uninterrupted, intelligent monitoring.

Key Benefits of AOV Technology

1. Uninterrupted Surveillance

Always records low-frame-rate video or snapshots—no gaps, no missed moments.

2. Ultra-Low Power Use

Operates on milliwatts; perfect for solar/battery setups. Up to 10x more efficient than standard recording.

3. Smart AI Detection

Stays in low-power mode but instantly switches to HD recording when detecting people or motion.

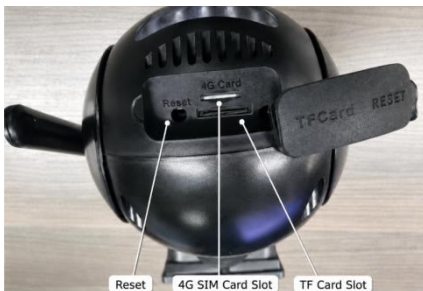
4. Efficient Data Use

Saves bandwidth and storage by recording HD only during events—great for wireless/4G cameras.

5. Versatile Applications

Ideal for off-grid, remote, or home use—no wiring, fewer false alerts, and longer runtime.

3. Get To Know Your Device



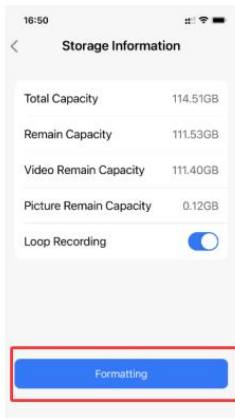
Reset: Insert the Reset Auxiliary Tweezers into the reset hole to press and hold the reset button firmly for about 3 seconds. Continue holding until you hear the voice prompt: “Restore factory settings, please don't power off.”

TF Card / 4G SIM Card Installation



TF Card Formatting

Important: After inserting the TF card, please go to 'Settings' > 'Storage Information' in the app to format it.

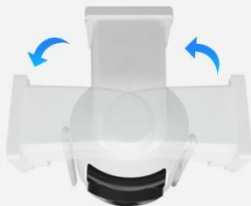


Pre-Installation Adjustment

Important: Before installation, the camera stand can be manually adjusted to preview and set the desired viewing angle. Rotate the mount to familiarize yourself with its range of motion and ensure it meets your positioning needs.

Manually Adjustable Camera Stand

This camera comes with a fully manually adjustable stand. You can firmly rotate the mount to adjust the camera to your desired angle.



4. APP Download And Registration

① Scan the QR code below, or search for “INSEECam” in Google Play and App Store. Then download and install the APP.

INSEECam



② Select Log In or Sign Up, then enter your email address to continue.

<

Login to your account

Account/Email

Password

☐ Remember password [Forget?](#)

Log in

Don't have an account yet? [Sign up](#)

<

Register

Please enter your email address

Get verification code

Note: When registering for a verification code, if you don't receive the code in your inbox, please also check your trash for the code.

5. How to Set Up Your 4G Camera

Before Installation and Use:

1) Charge Fully

Before first use, fully charge the camera for 6–12 hours. Please use a Type-C charging cable with a 5V/2A or 12V/1.5A power adapter (not included).

2) Insert the 4G SIM Card

Insert the provided 4G SIM card before pairing.

Important: **Only use the included SIM card.**

Other SIM cards are not compatible.

2) Insert and Format the TF Card

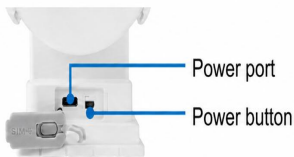
Insert a TF card (max 256GB) and format it via the app before use.

1) Power On and Status Check:

① **Turn on the camera.** Once powered on, wait for the solid blue light and the voice prompt: "Wait to be configured."

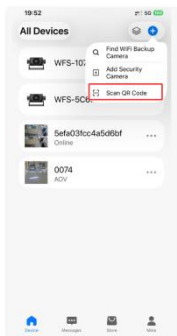
② **Charging Indicator:** If only the solid red light is illuminated, the battery is low. Please charge the camera until the blue light appears.

③ **Reset:** If you do not hear the voice prompt, press and hold the Reset button to reset the camera and try again.



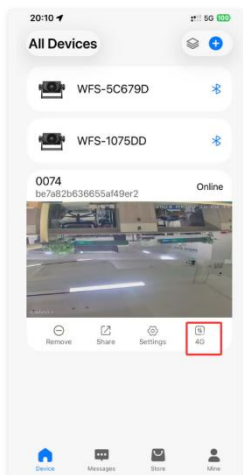
2) Add the Camera to Your Account

- ① Open the INSEECam app.
- ② Tap the "+" icon in the app's home screen and select "Scan QR Code".
- ③ Scan the QR code located on the camera body to add the device.
- ④ Follow the on-screen instructions to finish the pairing process and bind the SIM card.



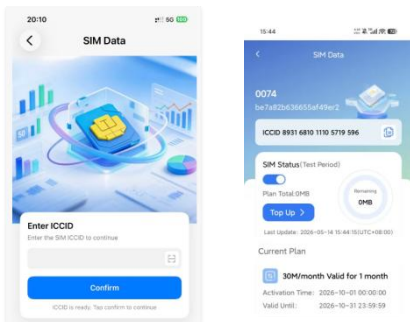
3) Bind SIM Card

After adding the device, you can bind a 4G SIM card by clicking on the "4G" icon in the drop-down menu directly below or to the right of the camera preview image on the home screen.



After entering either interface, input the ICCID number (found on your SIM card or the device label) to complete the binding.

Confirm Activation: Wait for the app to verify the status. Your camera is ready when the status shows "Active" .



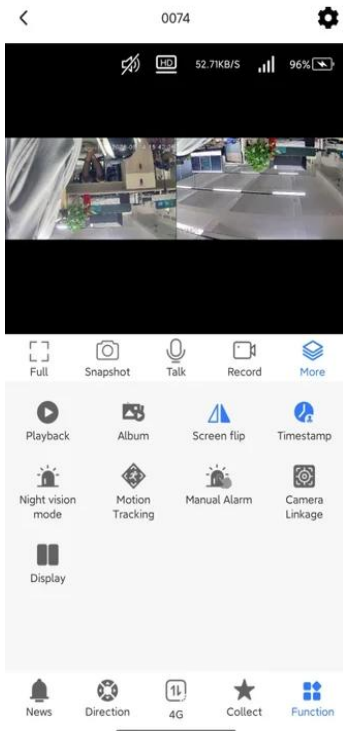
4) Top-Up 4G Data

Tap the "4G" icon on the home screen to add data.

Important: Use only the provided SIM card; third-party SIMs are incompatible.

Track your ICCID and usage in the app. The included card comes with 100MB of trial data—recharge immediately after activation to prevent service interruption. A valid data plan is required.

6. App Features



View live video, capture screenshots, record, flip the screen, adjust settings, manage 4G data, and update the camera—all in the app.



(1)**Full:** Switch between full screen and windowed view.



Snapshot

(2)**Snapshot:** Captures a screenshot of the current monitoring screen.



Talk

(3)**Talk:** Enables two-way audio communication.



Record

(4)**Record:** Initiates/stops video recording of the live feed.



(5)**Sound:** Turn the camera's audio on or off (mute / unmute).



(6)More

Playback: Allows you to review recorded videos or audio by playing them back.

Album: Stores and organizes saved photos (including snapshot-captured images), videos files for easy access.

Screen flip: Normal/mirror/flip/mirror and flip display modes can be selected.

Timestamp: Displays the date and time on recordings for accurate event tracking.

Night vision mode: offers adjustable settings including Control Mode, Sensitivity, Light ON Duration, and Intelligent Alert for optimized low-light monitoring.

Motion Tracking: Automatically follows moving people within the camera's field of view.

Manual Alarm: Tap to trigger a loud alarm sound.

Camera Linkage: Pull the dots to synchronize lenses across areas.

4G: View ICCID, SIM status, remaining data, current plan, and Top Up entry.



News

(7)**News:** Centralizes all alarm notifications and system messages for real-time monitoring.



Direction

(8)**Direction:** Remotely adjusts the camera's pan-tilt movement via directional pad taps.



Collection

(9)**Collection:** Stores 5 preset positions for instant recall during automated patrols.



(10)**Settings:**



Note: To ensure accurate time synchronization, tap the gear icon in the top right corner to enter Settings. Then go to "Device Information" and tap "Time Zone" and "Time" to manually correct the device time. This step is essential for proper system functionality.

Basic function settings: The Basic Settings section provides essential controls including Alert Tone, Image Flip (Left-Right/Up-Down), Language selection, and Speaker Volume adjustment for customized monitoring preferences.

Night vision mode:

Control Mode: Supports switching between Full Light, Infrared Night Vision, and Dual-Light Alert.

Dual-Light Alert: Adjustable sensitivity settings, including Light ON Duration, Intelligent Alert.

Indicator Light: Controls both Low Battery Indicator and Work Status Indicator simultaneously (On/Off together).



Low battery indicator: Red light means low battery, requires charging.

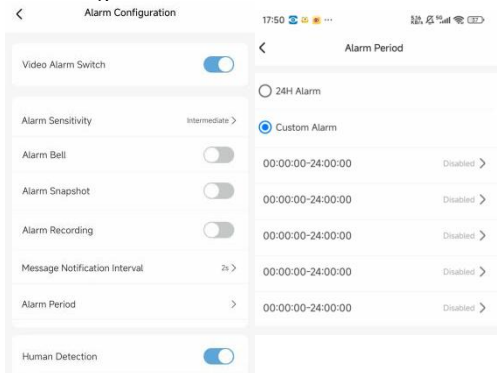
Work Indicator: Solid blue for standby, flashing blue for pairing.

Tips: You can turn off the indicator light in the app's night vision settings.

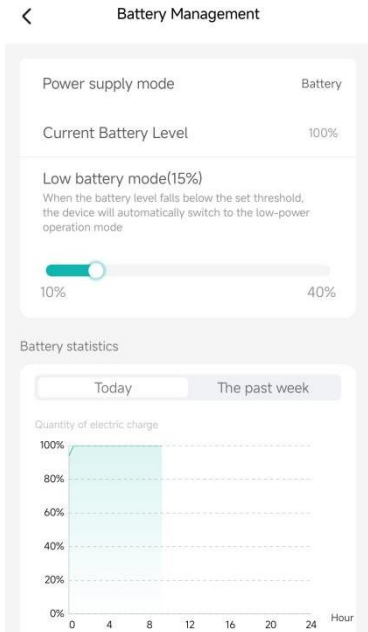
Recording settings: Choose between 24/7 recording or alarm recording, set video segment from 1-120 minutes per clip. < video configuration



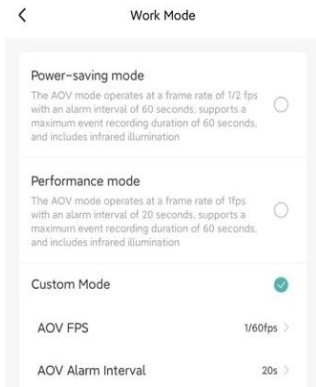
Smart alarm: Offers sensitivity adjustment , video alarm switch, alarm bell, capture image, record video, message notification interval, alarm period settings and specialized human detection that ignores animals and moving shadows.



Battery Management: The battery management system shows the current charge level and allows setting a low-power mode trigger threshold between 1% to 40% (default: 15%). and provides battery usage statistics (daily/weekly).



Work Mode: The system features three modes—Power-Saving, Performance, and Custom. You can adjust AOV FPS, alarm interval, and event recording length to balance power use and monitoring



Note: A lower frame rate conserves more power. For optimal energy savings, we strongly recommend using the default **Power-Saving Mode**.

Sharing Device: Share devices securely via time-limited QR codes (valid for 30 minutes), requiring invitees to scan with the designated app for single-user access.



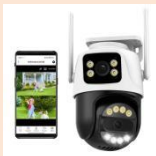
Sharing Device



Set Permission

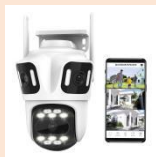
The QR code is valid for 30 minutes. One QR code can only be added by one user. The invitees need to install the APP and scan the code to add.

7. Optional Products



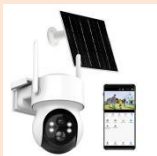
Dual Lens Outdoor Security Camera:

For wider coverage, search "[Dual Lens Outdoor Security Camera](#)" in our store. It works perfectly with your current monitoring system.



Three-Lens Outdoor Security Camera:

For expanded monitoring, search "[Three-Lens Outdoor Security Camera](#)" in our store. Seamlessly integrates with your existing surveillance system.



Wireless Solar Security Camera Outdoor:

For wider coverage, search "[Wireless Solar Security Camera Outdoor](#)" in our store. It works perfectly with your current monitoring system.

8. Trouble Shooting

1. How do I bind the included SIM card and activate 4G data service?

After adding the camera, tap the 4G button, enter the ICCID of the included SIM card, and check the SIM Data page.

1) Use the Included SIM Card

This camera only supports the SIM card provided in the package. Do not use your own SIM card.

2) Bind ICCID

Open the 4G page in the app. Enter the ICCID shown on the included SIM card or scanned by the app.

Tap OK and wait until the SIM card is bound successfully.

3) Check SIM Data

Check SIM Status, Current Plan, Remaining Data, and Last Update Time on the SIM Data page.

4) Top Up Data Plan

Tap Top Up when the plan is expired or the remaining data is insufficient.

1 Month 3GB/month: \$8.99

3/6/12/36 Months: \$24.99 / \$44.99 / \$79.99 / \$149.99

5) Reference Price Notice

The data plan prices are for reference only. Actual plans and prices are subject to the latest information shown in the app.

After payment, return to the app and refresh the SIM Data page to confirm that the plan is active.

2. How do cameras store video?

Local TF card storage, maximum support up to 256G TF card after full automatically delete earlier video, overwrite video.

3. How to do if the camera is not connected or offline?

- 1) Check whether the camera has power, the included SIM card is inserted correctly, and the data plan is active.
- 2) For solar-powered cameras, toggle the power switch to restart the device.
- 3) Restore the camera to factory settings.

4. How to reset the camera?

There are two methods to reset the camera.

- 1) Press and hold the reset button firmly enough for three seconds until you hear the voice direction "Wait to be configure."
- 2) Tap "Remove Device" in the Device Settings of the APP and reconnect it.

5. What can I do if the camera seems not to work normally?

1) Power Indicator & Charging

If the power indicator is blue, the device can be directly powered by the solar panel.

If the indicator is red, please use a 5V/2A or 12V/1.5A power adapter with a Type-C charging cable to charge the device.

2) 4G SIM Support

The camera only supports the included 4G SIM card. Do not replace it with your own SIM card.

3) App Permissions

The INSEECam app requires certain permissions to function properly. Ensure that permissions for photos, network access, microphone, and other necessary functions are granted in your phone's settings.

4) 4G Signal Strength

Confirm that 4G signal is strong enough at the installation site. Weak 4G signal may cause offline status, slow live view, or delayed alerts.

5) Reset the Camera

If the steps above do not solve the issue, reset the camera by pressing and holding the power button until you hear the voice prompt. For details, please refer to the reset instruction video on our listing page.

Note: If you have a dual-band router, you need to go to the router to generate the 2.4Ghz hot spot before connecting the camera. If you are still unable to connect to this 2.4Ghz wireless camera, please contact us promptly and we will provide you with some solutions. Thank you!

6. Why is there no prompt voice?

1)After turning on the camera successfully, it will give a "System starting up, wait to be configure " and see the camera pan and tilt. If there is no reaction, please check whether the power switch is turned on and the device has power.

If the indicator light is red, please use a 5V/2A or 12V/1.5A power adapter with a Type-C charging cable to charge the device before trying again.

2)Try to reset the camera if there is no prompt after ensuring the camera is powered on. Press and hold the reset button until you hear the voice direction, and wait for it to pan and tilt. It will take you about 10 seconds or more.

7. If use a TF card to store videos, do I need to clean it regularly?

When the TF card is full, it will automatically overwrite the oldest videos to save new videos. You are advised to delete the videos periodically.

8. Why is my camera offline?

1) Ensure the device has sufficient power.If the indicator is red or off, charge the device with a 5V/2A or 12V/1.5A power adapter for several hours.

2) Weak 4G signal may cause disconnection. It is

recommended to install the camera in an area with stable 4G coverage.

3) If methods above fail, please reset the camera by pressing and holding the reset button firmly enough until you hear the voice direction.

9. Does the wireless security camera support 24/7 continuous recording?

Yes, the camera supports 24/7 continuous video recording. You can use TF card storage

10. Does the camera support automatic motion tracking?

Yes, the camera supports automatic motion tracking. To enable this feature, activate the "Mobile Tracking" function in the app.

11. Can I use my own SIM card?

No. This camera only supports the included 4G SIM card. Third-party SIM cards may cause activation failure, network failure, or service interruption.

12. What are the specifications for the TF card used for local storage?

It is recommended to use a TF card with the following specifications: 8-256GB, FAT32 format, Class 10. Using a card outside these specifications may require

reformatting to FAT32 on your computer.

13. Can I share the camera feed with another phone?

Yes, you can share the camera feed. Open the app on the primary phone, select the device you wish to share, and generate a sharing QR code. The secondary phone can then scan this code to access the shared feed.

14. Is the camera stand adjustable? How do I position it correctly?

Yes, absolutely! This camera comes with a fully manually adjustable stand. You can firmly rotate the mount to adjust the camera to your desired angle.

9. FCC Warning

This device complies with part 15 of the FCC Rules. Operations subject to the following two conditions:
This device may not cause harmful interference.
this device must accept any interference received, including interference that may cause undesired operation.

NOTE 1: 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, it 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

NOTE 2: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

If you have any problems, please feel free to contact us and we will reply to you as soon as possible. Thank you!

Support: support@inseecam.net

WhatsApp: +86 13318775092

