

User Manual

AOV Wireless Solar Security Camera



INSEECam

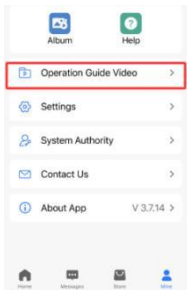


Make sure to read through this manual before you start using the device, and hang onto it for future use.

V1.2

Video Tutorials

Scan QR code for Setup & FAQ



Note: Can't scan the QR code? Go to insecam.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@insecam.net

WhatsApp: +86 13318775092

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1. What's Inside The Box



Camera



Bracket



Solar Panel



Screws



Mounting plate



User Manual



Reset Auxiliary Tweezers

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.

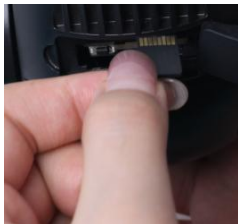
3. Get To Know Your Device



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."

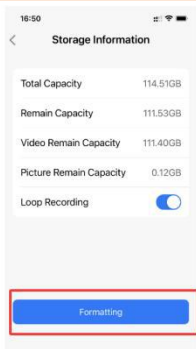
TF Card Installation

Insert the TF card with the metal contacts facing UP. Gently push it straight in until you hear a click – this means it's locked in place.



TF Card Formatting

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



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 “Login to your account” or The “sign up” in the red box, and enter your email address to complete the registration.

A screenshot of the INSEECam login screen. It features a back arrow at the top left, the text "Login to your account" in blue, and input fields for "Account/Email" and "Password". There is a checkbox for "Remember password" and a "Forgot?" link. A blue "Log in" button is at the bottom.A screenshot of the INSEECam registration screen. It features a back arrow at the top left, the text "Register", an input field for "Please enter your email address", and a grey "Get verification code" button.

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.

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

5. Set Up The Camera

Before Installation and Use, Please Note:

1) Charge Fully

Before using the device, please fully charge it (using a Type-C charging cable with a 5V/2A or 12V/1.5A power adapter. **(not included)**) for at least **6–12 hrs**. The AOV solar dual-lens camera has its charging cable integrated into the solar panel, so a separate charging cable is not included.

2) Insert & Format TF Card

Required: Insert a TF card (max 256GB), then format in app.

2) Connect Phone to WiFi


Must use 2.4GHz WIFI network before pairing camera.

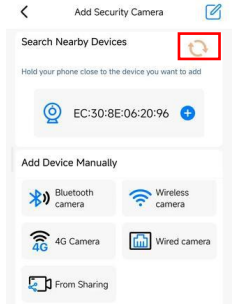
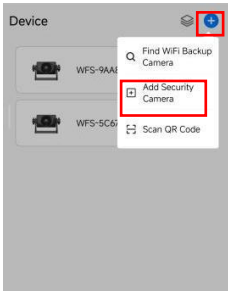
① Turn on the camera. When the blue light illuminates, you will hear "Wait to be configure." **Note: If only the red light is on, charge the camera until the blue light appears. If no voice prompt is heard, reset the camera.**



② Choose One of the Following Two Methods to Connect and Find the WiFi Camera.

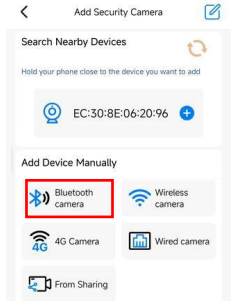
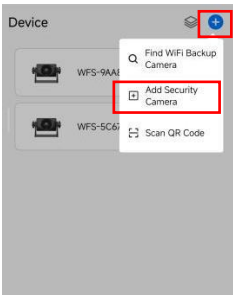
Connection Method 1:

Make sure the camera is powered on and Bluetooth is enabled. Tap the “+” and choose “Add Security Camera”. Tap the  to search for nearby devices.

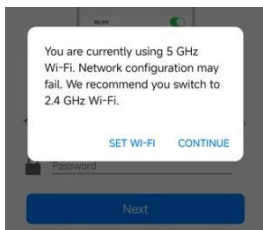
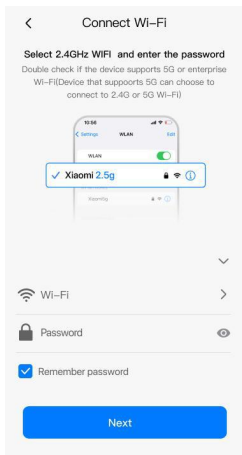


Connection Method 2:

Tap the “+” and choose “Add Security Camera”. Tap the “**Bluetooth camera**”.



③ Regardless of whether you choose Connection Method 1 or Method 2, you will be required to enter your Wi-Fi information during setup. Select your 2.4GHz WiFi and enter your WiFi password (The camera only supports 2.4GHz WiFi).

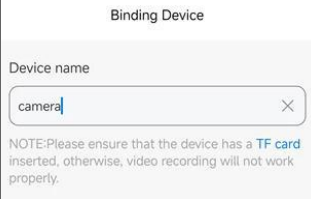
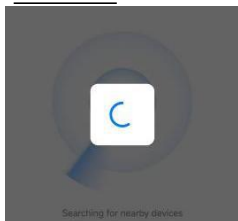


Note: If you have a dual-band router, you need to go to the router to generate the 2.4GHz hot spot before connecting the camera.

For step-by-step guidance, check Page 21, Question 1 of the manual, or open the App to watch the video tutorial.

If you still cannot connect, please contact us and we will provide further solutions.

④ Wait for camera to connect, enter the device name after successful connection and you can use the device.



6. App Features



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



Full

(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



Album



Screen flip



Timestamp



Night vision
mode



Motion
Tracking



Manual Alarm



Camera
Linkage

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 synchronizes lenses to track movement across multiple areas for seamless coverage.



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



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



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



(10)**Settings:**

Settings

Device alias INC007 >

Device information >

Basic settings

Basic function settings >

Camera Linkage >

WDR Config >

Night vision mode >

Advanced settings

Storage >

Recording settings >

Smart alarm >

Motion Tracking >

Battery Management >

Work Mode >

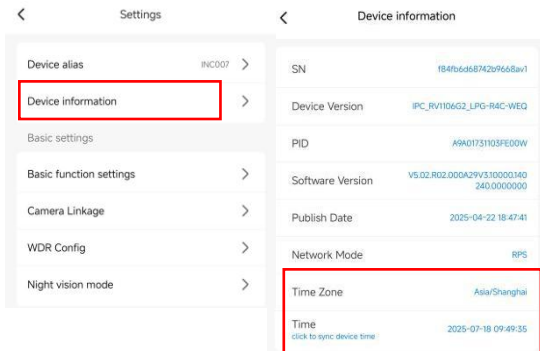
Other

Sharing Device >

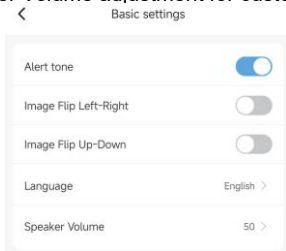
Restart device

Remove device

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

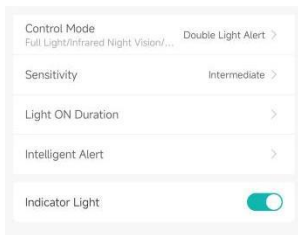


Night vision mode:

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.

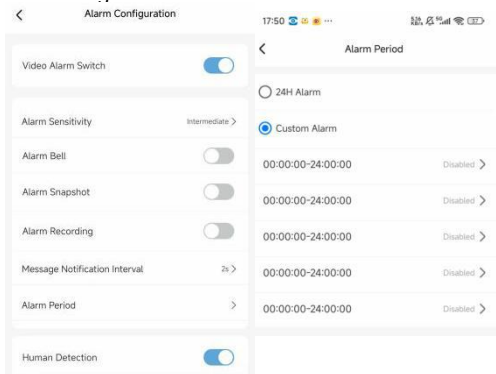
Work Indicator: Solid blue for standby, flashing blue for pairing.

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

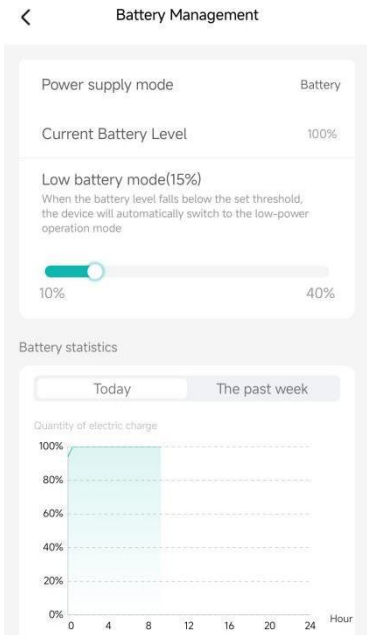
Recording settings: Choose between 24/7 recording or alarm recording, set video segment from 1-120 minutes per clip. < video configuration



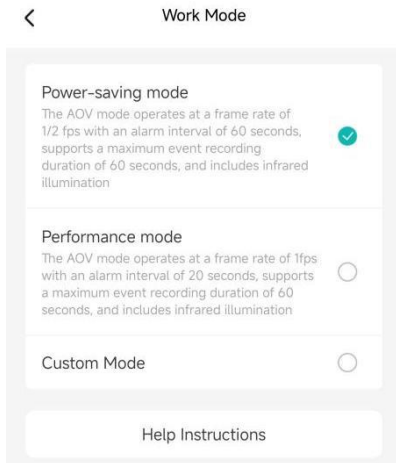
Smart alarm: Offers sensitivity adjustment , video alarm switch, alarm bell, capture image, record video, message notification interval, alarm period settings and specialized human detection that ignores animals and moving shadows.



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—allowing you to adjust frame rate, alarm interval, and recording settings to optimize AOV camera performance.



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.



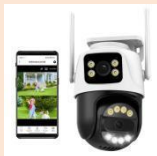
Sharing Device



Set Permission

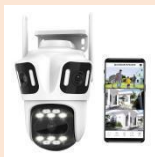
The QR code is valid for 30 minutes. One QR code can only be added by one user. The invitees need to install the APP and scan the code to add.

7. Optional Products



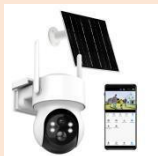
Dual Lens Outdoor Security Camera:

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. My camera only supports 2.4GHz Wi-Fi, but my home network is dual-band (2.4GHz and 5GHz). How can I connect the camera?

To connect your 2.4GHz camera, you will need to separate your Wi-Fi bands into two distinct networks—one for 2.4GHz and another for 5GHz. Here's how to do it:

1) Connect to Your Router

Use a computer or smartphone to connect to your current Wi-Fi network.

2) Access Router Settings

Open a web browser and enter your router's IP address (commonly 192.168.1.1 or 192.168.0.1). This information is often found on a label on the router itself.

Log in with your router's username and password.

3) Locate Wireless Settings

Navigate to the “Wireless,” “Wi-Fi,” or “Dual-Band Settings” section in the administration panel.

4) Configure Separate Networks

Assign unique names (SSIDs) and passwords for the 2.4GHz and 5GHz bands. For example:

YourNetwork_2.4G

YourNetwork_5G

5) Save and Reboot

Click “Save” or “Apply” to confirm the changes, then restart your router.

Once your router reboots, the two networks will appear separately. You can now connect your camera to the 2.4GHz network using the new credentials.

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 if the camera power or network of router normally.
- 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) WiFi Support

The camera only supports 2.4GHz WiFi. Please make sure your phone is connected to a 2.4GHz network during setup.

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) WiFi Signal Strength

Confirm that the WiFi signal is strong enough at the installation site. You may try rebooting the router, or move the camera closer to the router to improve stability.

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 WiFi signal may cause disconnection. It's recommended to place the camera within your WiFi signal range as close as possible.
- 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. Does the camera support 5GHz Wi-Fi?

No, the camera only supports 2.4GHz Wi-Fi. This frequency is ideal for outdoor use as it provides stronger connectivity through walls compared to 5GHz Wi-Fi.

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@insecam.net

WhatsApp: +86 13318775092

