

# User Manual

## AOV Solar Security Camera Outdoor



INSEECam

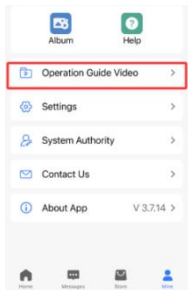


Make sure to read through this manual before you start using the device, and hang onto it for future use.

V1.0

# Video Tutorials

Scan QR code for Setup & FAQ



Note: Can't scan the QR code? Go to [insecam.net](http://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](mailto:support@insecam.net)**

**WhatsApp: [+86 13318775092](https://wa.me/8613318775092)**

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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.

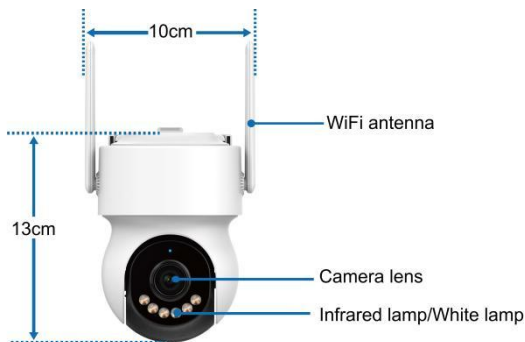
#### 4. Efficient Data Use

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.

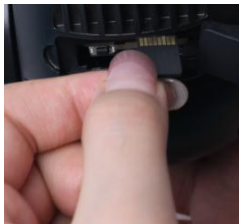
### 3. Get To Know Your Device



**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."

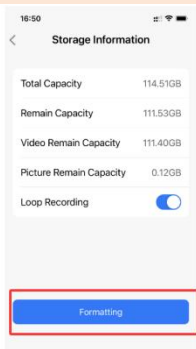
## TF Card Installation

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. Camera Specifications

Sensor	1/2.7"Color 4.0MP CMOS
Focal distance	F1.9*3.6MM(Dust-proof lens)
Noise reduction	Support 2D/3D noise reduction
Video format	H.265AI
Resolving power	Main code stream: 2560 * 1440; Sub-stream: 800 * 448
Frame rate	12 FPS (wake-up) 1 frame per second (AOV static mode)
Support Agreement	Support NETIP protocol
Storage Interface	Local TF card (supports up to 256G)
Frequency Range	2.4 GHz ~ 2.4835 GHz
Solar Charging Panel	6.2W
Battery capacity	7800mAh
Temperature	Zero 10 ° C -55 ° C, humidity less than 90% [no condensation]
Waterproof	IP66

## 5. 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 'Login to your account' screen. It features a blue header with the text 'Login to your account'. Below the header are two input fields: 'Account/Email' and 'Password'. There is a checkbox labeled 'Remember password' and a link 'Forgot?'. A blue 'Log in' button is at the bottom.A screenshot of the 'Register' screen. It has a grey header with the text 'Register'. Below it is a light grey input field with the placeholder text 'Please enter your email address'. At the bottom is a dark grey button labeled '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.

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

## 6. Set Up The Camera

Before Installation and Use, Please Note:

### 1) Charge Fully

Use included Type-C cable (5V/1A-2A adapter).  
Takes 6-12 hrs.

### 2) Insert & Format TF Card

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

### 2) Connect Phone to WiFi

Must use 2.4GHz network before pairing  
camera.

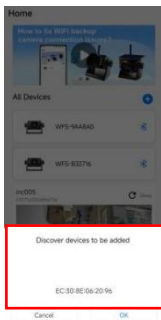
① Power on the device, and wait for it to respond. After it finishes rotating, you will hear the voice prompt “System starting up, wait to be configure”. Reset if previously connected.



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

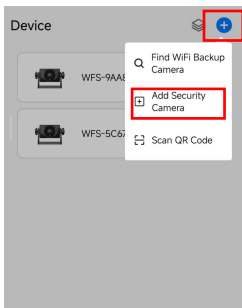
## Connection Method 1:

Make sure the camera is powered on and Bluetooth is enabled. Open the app, pull down to search for devices, and a prompt like the one below will appear. Select “OK” to proceed.

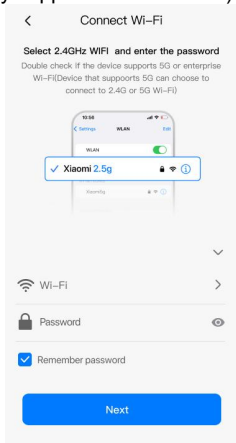


## Connection Method 2:

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).

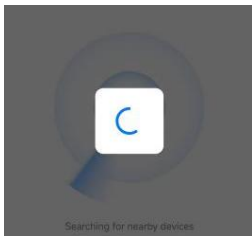


**Note:** If you have a dual-band router, you need to go to the router to generate the 2.4GHz hot spot before connecting the camera.

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.



## 7. 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

**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.



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



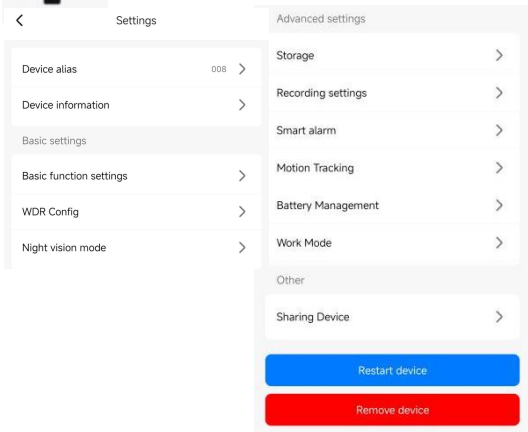
(8)**Direction:** Remotely adjusts the camera's pan-tilt movement via directional pad taps.



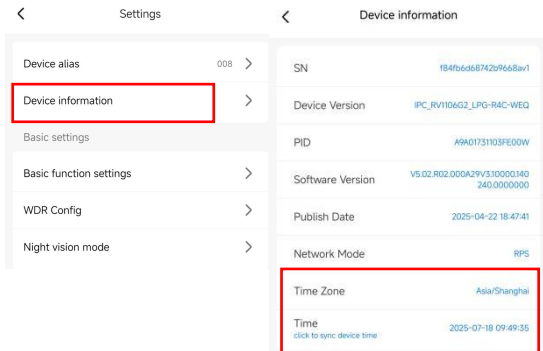
(9)**Collection:** Stores 5 preset positions for instant recall during automated patrols.



(10)**Settings:**



**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



**Basic function settings:** Basic Settings: Adjust alert tone, indicator light, image flip (L/R, U/D), language, and speaker volume for personalized monitoring.

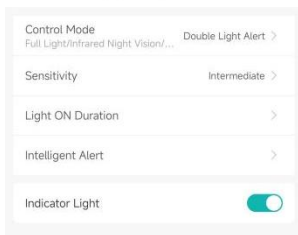


## Night vision mode:

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). < Night vision mode

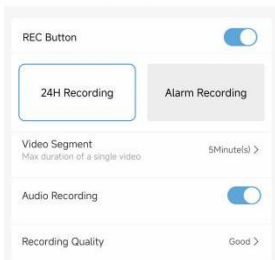


**Low battery indicator:** Red light = Low power, recharge needed.

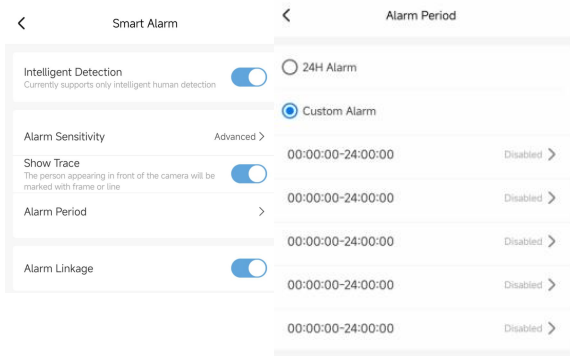
**Work Indicator:** Solid blue = Standby. Flashing blue = Active or awakened.

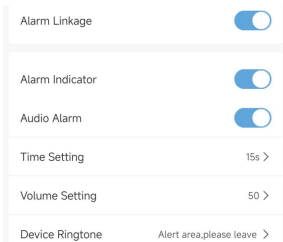
Tip: You can turn off the indicator light in the app's night vision settings.

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



**Smart alarm:** Features intelligent human detection with sensitivity adjustment, alarm period settings, visual trace marking, audio alerts, customizable volume, and ringtone options for precise monitoring.



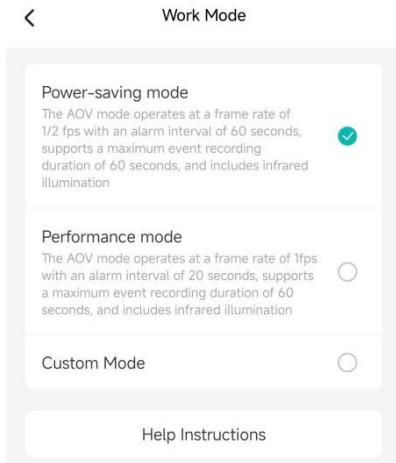


**Battery Management:** The battery management system shows the current charge level and allows setting a low-power mode trigger threshold between 1% to 40% (default: 15%). and provides battery usage statistics (daily/weekly).

< Battery Management >



**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.

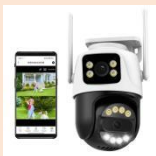


## 8. Optional Products



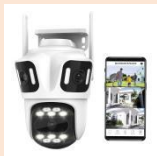
### **AOV Dual-Lens Wireless Solar Security Camera:**

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



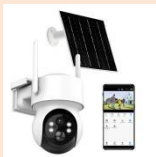
### **Dual Lens Outdoor Security Camera:**

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.

## 9. 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) Plug the camera power to restart camera.
- 3) Restore the camera to factory settings.

## **4. How to reset the camera?**

There are two methods to reset the camera. Press and hold the reset button firmly enough for three seconds until you hear the voice direction “Reset succeeded!Restarting the device.”

Tap "Delete 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) After plugging in the camera to the electrical outlet, please wait for the voice direction of the camera and make sure that you hear "Please use app to configure

your WiFi". Then you can refer to the user manual or direction video on our listing page for connection.

2) The camera can only support 2.4GHz WiFi. Please make sure the WiFi signal is strong enough to reach the position of the camera. Reboot the router to reassign the IP address. Ensure there are no traffic restrictions on your network; remove any if found.

3) If the methods above fail, please reset the camera by pressing and holding the power button firmly enough until you hear the voice direction. You can refer to the direction video on our listing page for resetting.

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 "Please use app to configure your WiFi" prompt and pan and tilt. If the camera doesn't have any reaction, you should check the connection of the cable and plug in the camera properly.

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) Please ensure the solar panel maintains proper sunlight exposure for continuous camera operation.

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.

## **10. 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](mailto:support@insecam.net)**

**WhatsApp: +86 13318775092**

