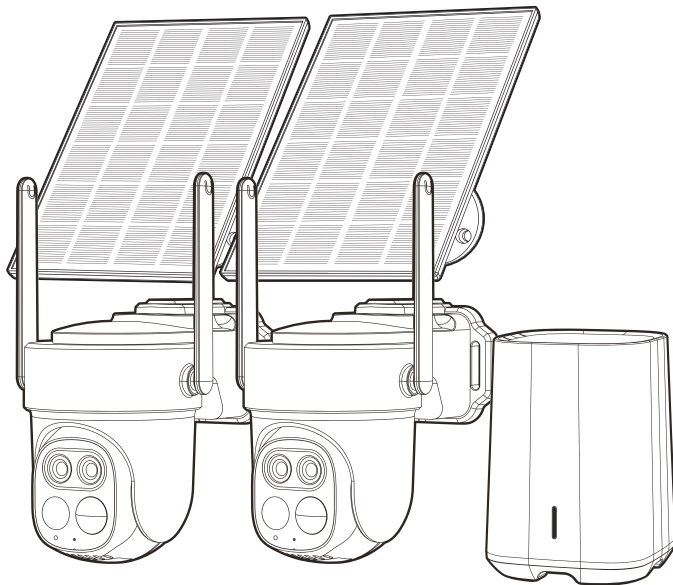


Smart Guard

Solar Security System Camera Kit

Model No.: BF-A100



User Manual

Setup Guide & Compliance Information

* Please refer only to the sections that apply to the product you have purchased.

CONTENTS

01	Safety & Legal Compliance	01
02	What's In The Box?	02
	2-Camera Kit Contents	
	4-Camera Kit Contents	
03	Product Components & Key Features	04
	Camera	
	Home Base	
04	Using The KooCam App	07
05	Connecting The Home Base	09
06	Step-by-step Installation	10
	Powering On & Resetting The Camera	
	Pairing The Home Base With Your Network	
	Mounting The Camera	
	Solar Panel Mounting	
07	Troubleshooting	19
08	Technical Specifications	20

► 01. Safety & Legal Compliance

1.1 Certifications & Standards Compliance

This product complies with the following U.S. and international safety and regulatory standards:

FCC Compliance:

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.
- (2) This device must accept any interference received, including interference that may cause undesired operation.

FCC ID: 2AVKP-BF-A70 (Camera), 2AVKP-BF-BS01 (Home Base)

UL Certification:

Tested to UL 62368-1 safety standards for audio/video and information technology equipment.

CE & RoHS Compliance:

Meets EU CE directives and Restriction of Hazardous Substances (RoHS) requirements.

1.2 Privacy & Data Security

Respect Local Laws:

Do not point cameras at public areas (e.g., sidewalks, streets) or neighboring properties. Unauthorized surveillance may violate state privacy laws.

Data Protection:

All video data is stored locally on the included micro SD card. No cloud storage is required unless manually enabled by the user.

1.3 **California Proposition 65 Notice**

This product may contain chemicals known to the State of California to cause health risks. These substances are commonly found in electronics at levels well below safety standards. For details, visit www.P65Warnings.ca.gov.

1.4 Environmental & Usage Safety

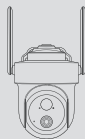
Operating Conditions:

Designed for outdoor use. Operating temperature: -4°F to 122°F (-20°C to 50°C). Avoid prolonged exposure to extreme humidity (>85%) or direct saltwater spray.

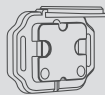
Installation Warnings:

Use only the included 12V/ 1A power adapter for the Home Base. Do not disassemble or modify the device. Ensure solar panels are securely mounted to avoid falls or damage.

► 02. What's In The Box? (2-Camera Kit Contents)



Camera * 2



Bracket * 2



Solar Panel * 2



Ethernet
Cable



Home Base



Mounting
Bracket * 2



Screw Pack * 4



USB Cable * 2



Power Adapter

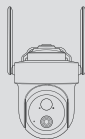


Memory Card
(64GB Included)

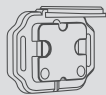


User Manual

► 02. What's In The Box? (4-Camera Kit Contents)



Camera * 4



Bracket * 4



Solar Panel * 4



Ethernet
Cable



Home Base



Mounting
Bracket * 4



Screw Pack * 8



USB Cable * 4



Power Adapter



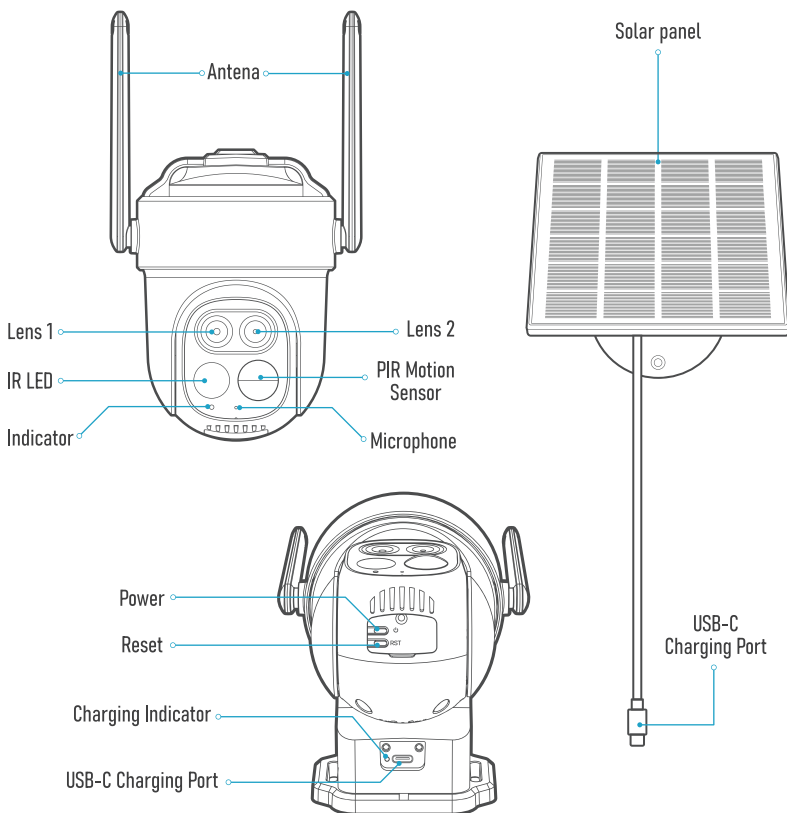
Memory Card
(64GB Included)



User Manual

► 03. Product Components & Key Features

Camera Introduction



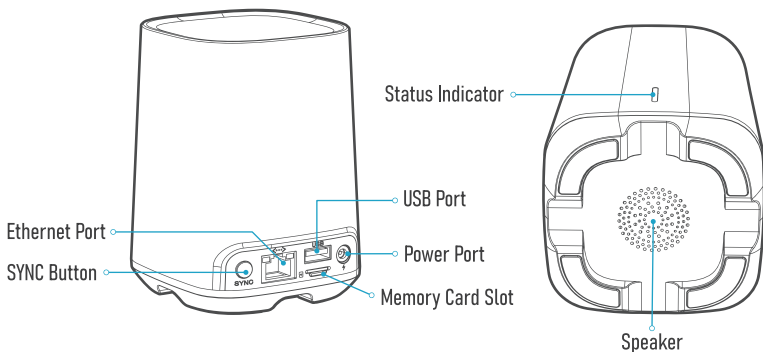
Camera Indicator Definition

Scenarios	Lighting Rules (Red/Blue Lights)
Power on	Blue light stays on for 3 seconds
Pairing	Blue light flashes at 1Hz
Upgrading	Blue light flashes at 2Hz
Normal Operation	Blue light stays on
Production Testing	Red and blue lights flash alternately at 1/3Hz
Camera Aging	Red and blue lights stay on
Network Abnormaly	Red light flashes at 0.5Hz
Low battery (battery level $\leq 20\%$)	Red light flashes once every 3 seconds, each flash lasting 1 second, until charging begins or the device is turned off. (No flash during sleep mode)
Shutdown	After pressing and holding the button for 5 seconds to prompt shutdown, the red light flashes at 1Hz until the device is turned off

Camera Key Definition

Scenarios	Button Press Definition
Power on	Press and hold the "⏻" button for 3 seconds.
Pairing	Double-press the "⏻" button.
Reset	Press the "RST" button five times.
Shutdown	Press and hold the "⏻" button for 5 seconds.

Homebase



Homebase Indicator Definition

Scenarios	Lighting Rules (Red/Blue Lights)
Network Normal	Blue light stays on
Boot	Red light stays on
Network Disconnected	Red light flashes slowly
Upgrading	Red and blue lights flash
Network Configuration	Blue light flashes slowly

SYNC Button Definition

Scenarios	Lighting Rules (Red/Blue Lights)
Binding	Press and hold the SYNC button for 3 seconds
Reset	Press and hold the SYNC button for 10 seconds

► 04. Using The KooCam APP

1. Download The KooCam APP

1.1 Methods:

Scan QR Code: Use your smartphone camera to scan the QR code below.

Search App Stores:

Android Users: Search "KooCam" on Google Play™

iOS Users: Search "KooCam" on the App Store®



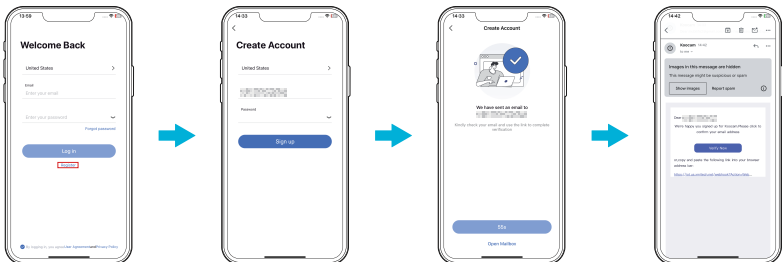
Legal Notes:

Google Play and the Google Play logo are trademarks of Google LLC.

APP Store is a service mark of Apple Inc.

2. Account Registration

New users are required to register the "KooCam" app for operation and use for conjunction with the camera by using a real email address.



- 1 Click "Register" to create a new account.
- 2 Select your region, fill in your email address and create a password
- 3 Click "Register" again, the APP will send a verification email to your mailbox.
- 4 Find the corresponding email in your mailbox and select "Verify".
- 5 Return to APP to log in your new account.

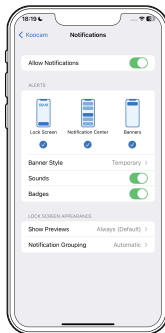
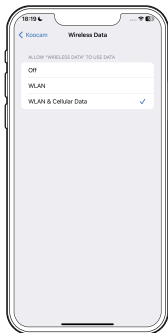
Critical Notes:

- ✓ Agree to Terms: Accept the User Agreement and Privacy Policy during registration.
- ! Region Lock: Cameras cannot be shared across accounts in different regions.
- ✉ Valid Email Required: Use a real email for account recovery.

3. Enable Permissions

Please turn on both of the following permissions.

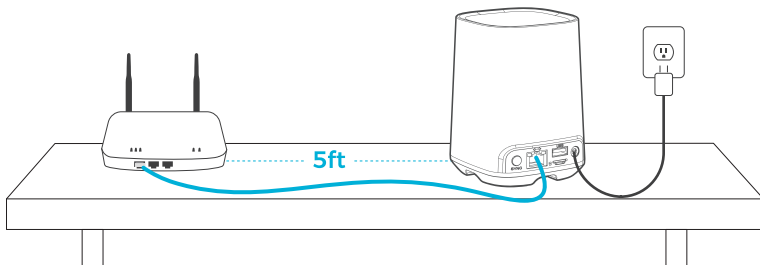
- 1 Allow the "KooCam" app to access mobile data and Wi-Fi; Otherwise, it will fail to connect to the camera.
- 2 Enable push notifications for the "KooCam" app; Otherwise, the phone will not receive alerts when motion is detected.



► 05. Connecting The Home Base

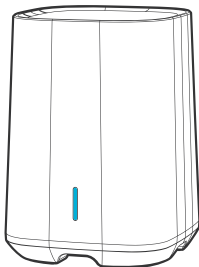
◉ Connect The Home Base To The Internet

❶ Power on the Home Base: Connect the Home Base to the LAN port and power port of your home router. (Use the Ethernet cable and original 12V/1A power adapter included in the package.)



❷ Wait for 1 minute until the Home Base LED changes from red to blue.

❸ Prepare for pairing: Once the LED turns blue, press and hold the SYNC button until you hear a "di" sound. Wait for the LED to change from solid blue to blinking blue, indicating that the Home Base is ready for pairing.



► 06. Step-by-step Installation

• Power On The Camera

- 1 Charge the Camera: Use the included USB cable to charge the camera. The charging indicator will glow green during charging and turn off when fully charged.
- 2 Power On: Press and hold the "⏻" button until the indicator lights up confirming successful power-on.

Note:

If the camera and Home Base are powered on simultaneously, they will auto-connect.

A solid blue light indicates a successful connection.

When pairing the camera, please make sure that the Wi-Fi and the Ethernet cable connected to the Home Base are on the same router.

• Pairing The Home Base With Your Network

Network Check:

Ensure your router is functioning and the Home Base LED is blinking blue.

Phone Network:

Your phone must have an active network connection (It can support any Wi-Fi with cellular data or a different Wi-Fi network)

Scan to Pair:

Open the app, select "Add Device" → Scan the QR code on the Home Base.

Automatic Connection:

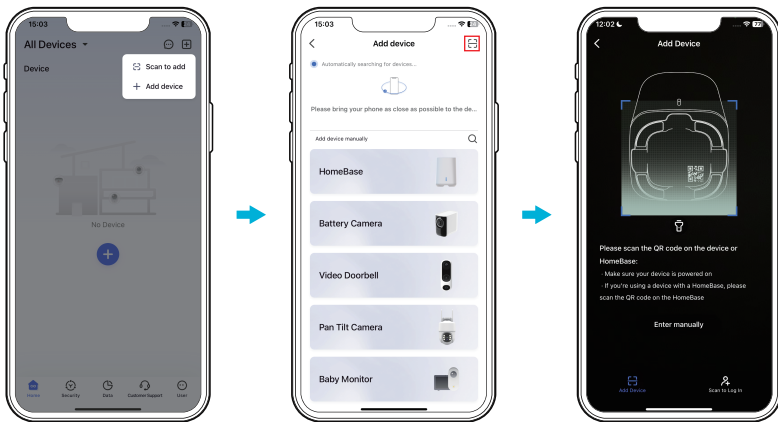
Keep your phone close to the Home Base until pairing completes automatically.

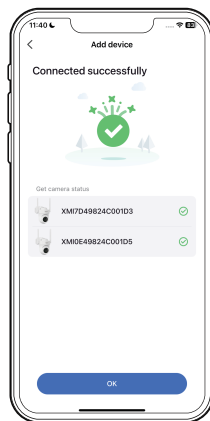
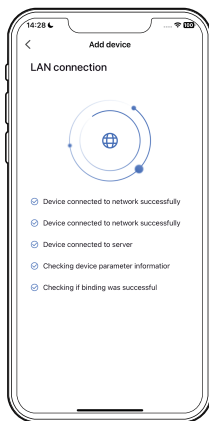
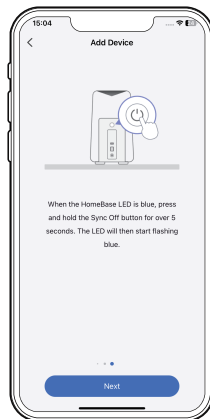
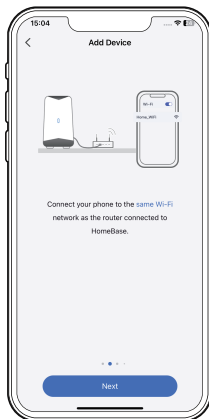
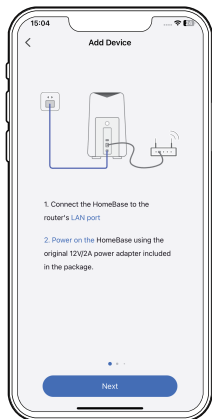
Troubleshooting:

If pairing fails, manually enter the device serial number (found on the Home Base label).

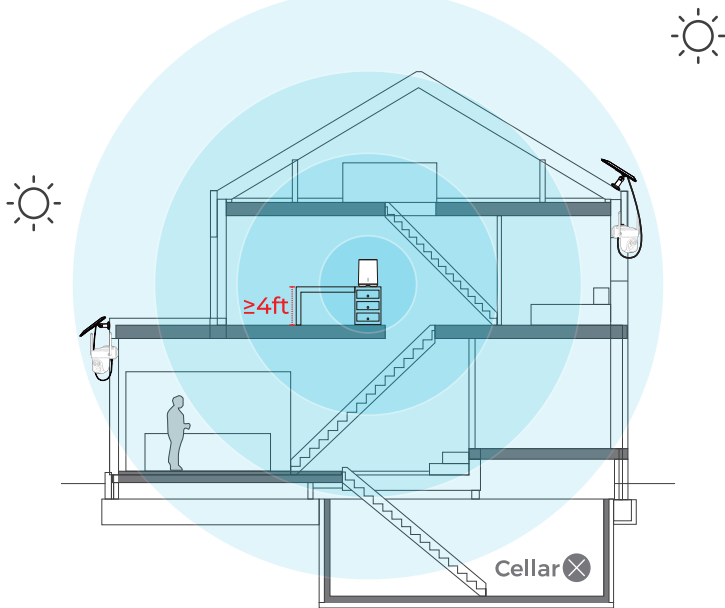
Steps:

Click Setting → Click Device Information → Copy Serial Number





● Mounting The Camera



1. Installation Planning & Signal Optimization

Home Base Signal Range:

Signal range extends up to 985ft / 300m in open areas without obstacles, walls, glass, and other barriers may cause signal interference.

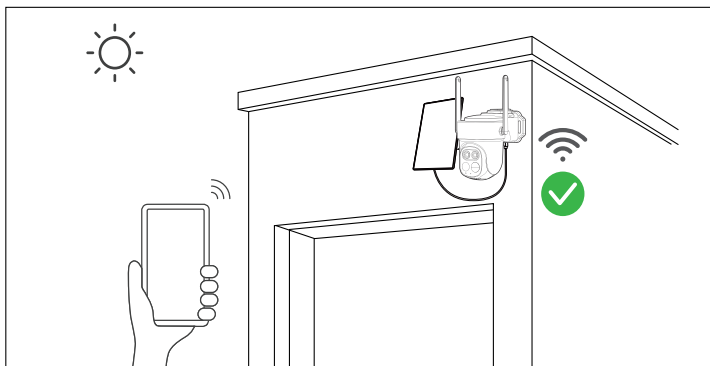
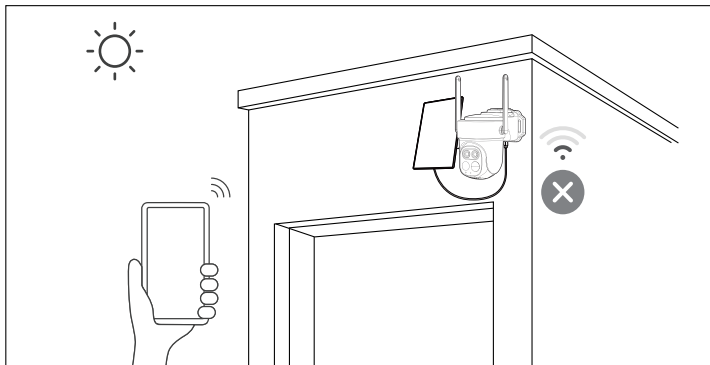
Home Base Placement Tips:

Place the Home Base at the center of cameras and 3.94ft / 1.2m above ground. Avoid placing the Home Base in basements or enclosed spaces.

2. Pre-Installation Wi-Fi Signal Test

Signal Quality Check:

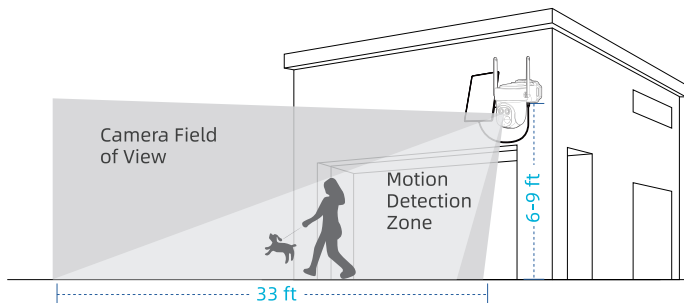
Temporarily place the camera at the intended mounting spot and test Wi-Fi signal quality with your phone. Ensure signal strength is ≥ 3 bars (out of 5).



3. Camera Height & Orientation

Mounting Height:

Mount the camera 1.8-2.7 meters (6-9 ft) high for optimal motion detection.



Hemisphere-Specific Orientation:

Northern Hemisphere: Face the camera south.

Southern Hemisphere: Face the camera north.

Avoid Obstructions:

Ensure no obstructions(e.g., leaves, branches) block the camera.



4. Pre-installation Preparation

Charging:

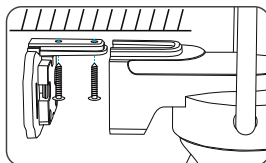
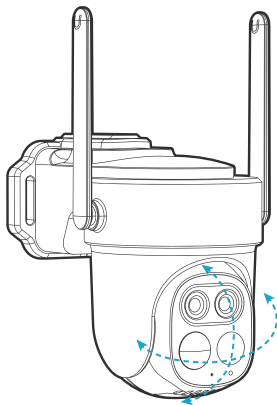
Charge the camera with the included USB cable (7-8 hours). The LED remains solid green during charging and turns off when fully charged. Ensure the camera is fully charged and connected to the app before installation.

Physical Installation Steps

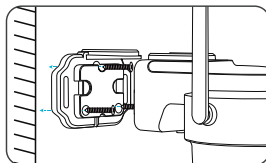
Drilling & Securing:

Drill holes using a 6mm(15/64") bit based on the position sticker.

Insert wall plugs and tighten screws.



Installation on The Ceiling



Installation on The Wall

Mounting Surface Options:

On the Wall: Adjust the camera horizontally to cover the target area.

On the Ceiling: Tilt the camera downward at 30° for wider coverage.

• Solar Panel Mounting

1. Installation Steps

Mount the Bracket & Panel :

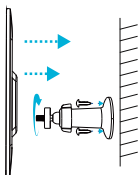
Use a power drill and screws to secure the camera bracket to the wall. Align the bracket's screw holes with those on the solar panel and tighten clockwise.

Adjust the Panel Angle:

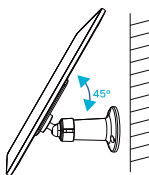
Tilt the panel to face upward (45° is optimal for most regions).

Connect to Camera Charging Port:

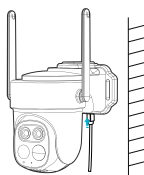
Insert the solar panel's charging head through the rubber plug → Securely connect to the port.



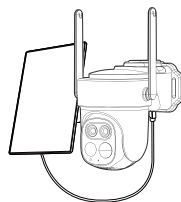
Step 1



Step 2



Step 3



Step 4

2. Location & Angle optimization

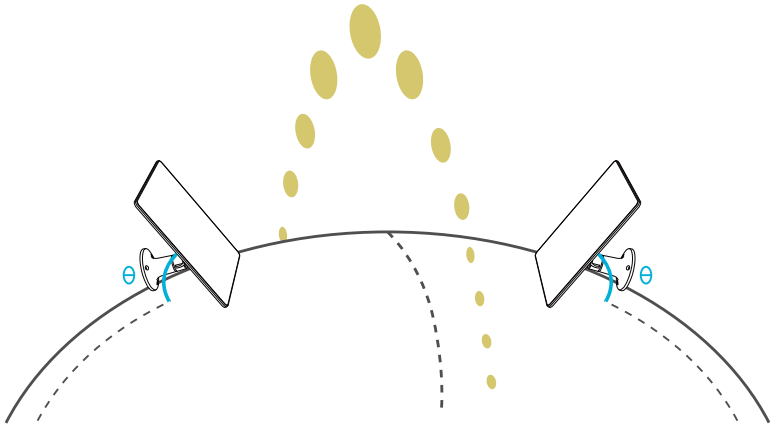
Installation Location:

Choose a spot with maximum sunlight exposure and no obstructions (e.g. trees, eaves).
The panel requires ≥ 3 hours of direct sunlight daily.

Hemisphere-Specific Angle:

Northern Hemisphere: Optimal angle = Local Latitude + 5°

Southern Hemisphere: Optimal angle = Local Latitude + 5°



The Northern Hemisphere

The Ideal Angle=The Local Latitude $\pm$ 5°

The Southern Hemisphere

3. Maintenance & Precautions

Regular Cleaning:

Wipe the panel monthly with a soft cloth to remove dust and debris.

Avoid Obstructions:

Partial obstructions(e.g., leaves) can drastically reduce efficiency.

Extreme Weather Tips:

Clear snow promptly after storms → Check rubber seals during heavy rain.

► 07. Troubleshooting

1. Camera Fails To Connect To Home Base

Camera LED blinks blue but does not appear in the app.

Solution:

Ensure the Home Base LED is blinking blue (pairing mode). Reset the camera (hold RST button for 3s) → Rescan the Home Base OR code.

2. Low Solar Charging Efficiency

Camera battery remains below 20% with frequent red LED flashes.

Solution:

Adjust the solar panel angle to match local latitude (e.g., Latitude +5° in Northern Hemisphere).
Clean dust, snow, or debris from the panel surface. Temporarily charge the camera via the included USB cable (7-8 hours to full charge)

3. Motion Detection Alerts Not Triggered

No motion alerts or event logs in the app.

Solution:

Enable notifications for the KooCam app (Settings > Notifications).
Remount the camera at 6-9ft (1.8-2.7m) height with a clear detection zone.
Calibrate PIR sensor sensitivity in the app (Settings > Motion Detection).

4. Blurry Night Vision or No Infrared Activation

Poor night vision quality or infrared LEDs not activating.

Solution:

Clean the camera lens and infrared LEDs with a microfiber cloth.
Avoid strong ambient light (e.g., street lamps) by adjusting the camera angle.
Manually enable the floodlight in the app (Settings → Light → Manual Mode).

5. No Verification Email?

Check spam folder → Tap "Resend Email" in the app.

6. Login Failed?

Ensure correct region selection → Use "Forgot Password?" to reset.

► 08. Technical Specifications

View Angle of Lens 1

Image Quality	Resolution	3MP
	Image Sensor	1/3.1" Progressive Scan CMOS
Lens Specifications	View Angle of Lens 1	131.5°(Diag.), 106°(H); 54° (V)
	View Angle of Lens 2	65.3°(Diag.), 46.6°(H); 34.6° (V)
	Focal Length of Lens 1	2.8mm
	Focal Length of Lens 2	6.0mm
Video Specifications	Video Format	H.265
	Frams Rate	15fps
	Memory Card Support	8GB~ Max 128GB, Cloud Storage
Communications	Wireless Security	WEP, WPA, WPA2
	Wi-Fi	2.4GHz
Battery	Solar Panel	3W
	Battery Capacity	3.6V / 5200mAh
	Standby Time	Max 6 Months
	Charger	DC5V USB-C Charger
Applicable Environment	Temperature	-20°C~ 50°C (-4°F~122°F)
	Humidity	20%~85%; Non-condensing
PIR Sensor	PIR Angle	110°
	PIR Range	30ft
Phone OS	Android 2.3 or Above / iOS 7.0 or Above	

FCC Warning

Warning:

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.

Changes or modifications 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 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

NOTE: This device and its antenna(s) must not be co-located or operation in conjunction with any other antenna or transmitter

RF Exposure Statement

To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with minimum distance of 20cm between the radiator and your body.

IC Warning

ISED Canada Statement:

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence exempt RSS(s). Operation is subject to the following two conditions:

- 1) this device may not cause interference and
- 2) this device must accept any interference, including interference that may cause undesired operation of the device.

Radiation Exposure: This equipment complies with Canada radiation exposure limits set for an uncontrolled environment.

To maintain compliance with IC's RF Exposure guidelines, This equipment should be installed and operated with minimum distance of 20cm the radiator your body. This device and its antenna(s) must not be co-located or operation in conjunction with any other antenna or transmitter

Déclaration de l'ISED Canada:

Cet appareil contient des émetteurs / récepteurs exempts de licence qui sont conformes aux RSS exemptes de licence d'Innovation, Sciences et Développement économique Canada.

L'opération est sous réserve des deux conditions suivantes :

- 1) cet appareil ne peut pas causer d'interférences et
- 2) ce dispositif doit accepter toute interférence, y compris peut provoquer le fonctionnement indésirable de l'appareil.

Exposition aux rayonnements: Cet équipement est conforme aux radiations du Canada limites d'exposition pour un environnement incontrôlé.

Pour maintenir la conformité avec les lignes directrices d'exposition RF d'IC, ceci L'équipement doit être installé et exploité à une distance minimale de 20cm le radiateur de votre corps. Ce dispositif et ses antennes ne doivent pas l'être Le fonctionnement est associé à toute autre antenne émetteur.

Smart Protection For Every Home

