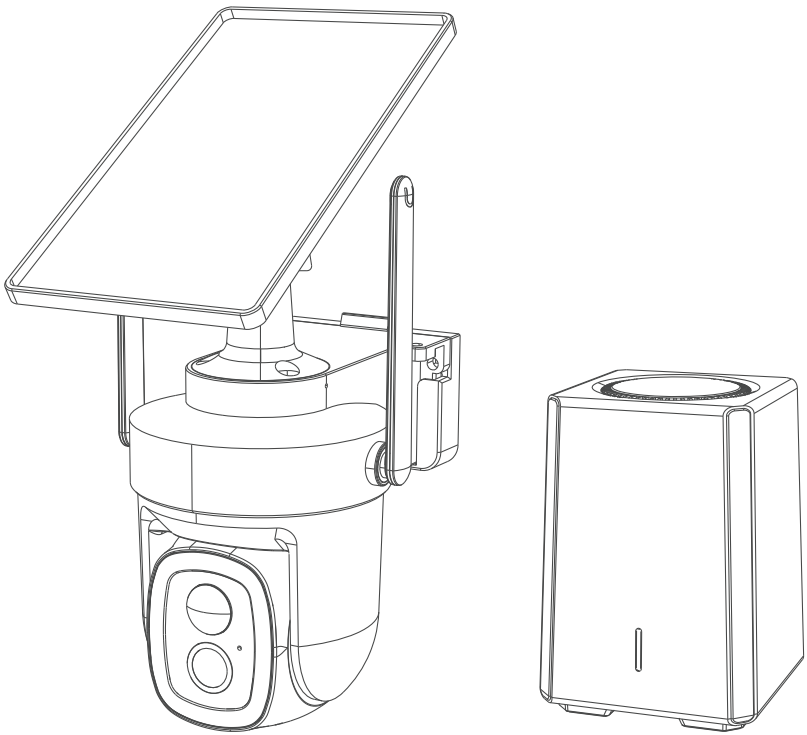


User Manual

Solar-Powered Wireless Security Camera System



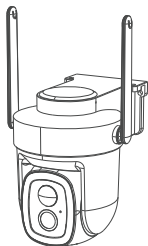
Contents

1. What's In the Box	<01>
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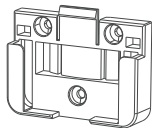
Note:

The manufacturer reserves the right to make product improvements and updates. Due to the possibility of recent changes, the information in this manual might not perfectly reflect the latest product specifications. In such cases, the actual product received shall prevail over the manual.

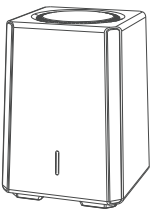
What's In the Box



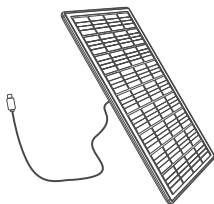
Camera



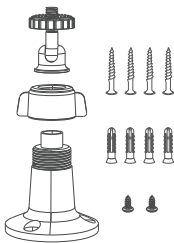
Camera Bracket



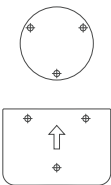
Home Base



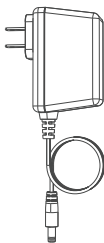
Solar Panel



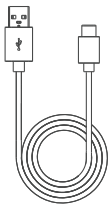
Panel Bracket



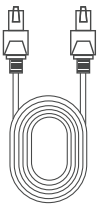
Position Sticker



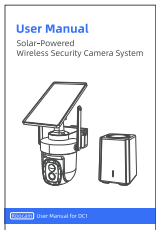
Power Adapter



USB-C Cable



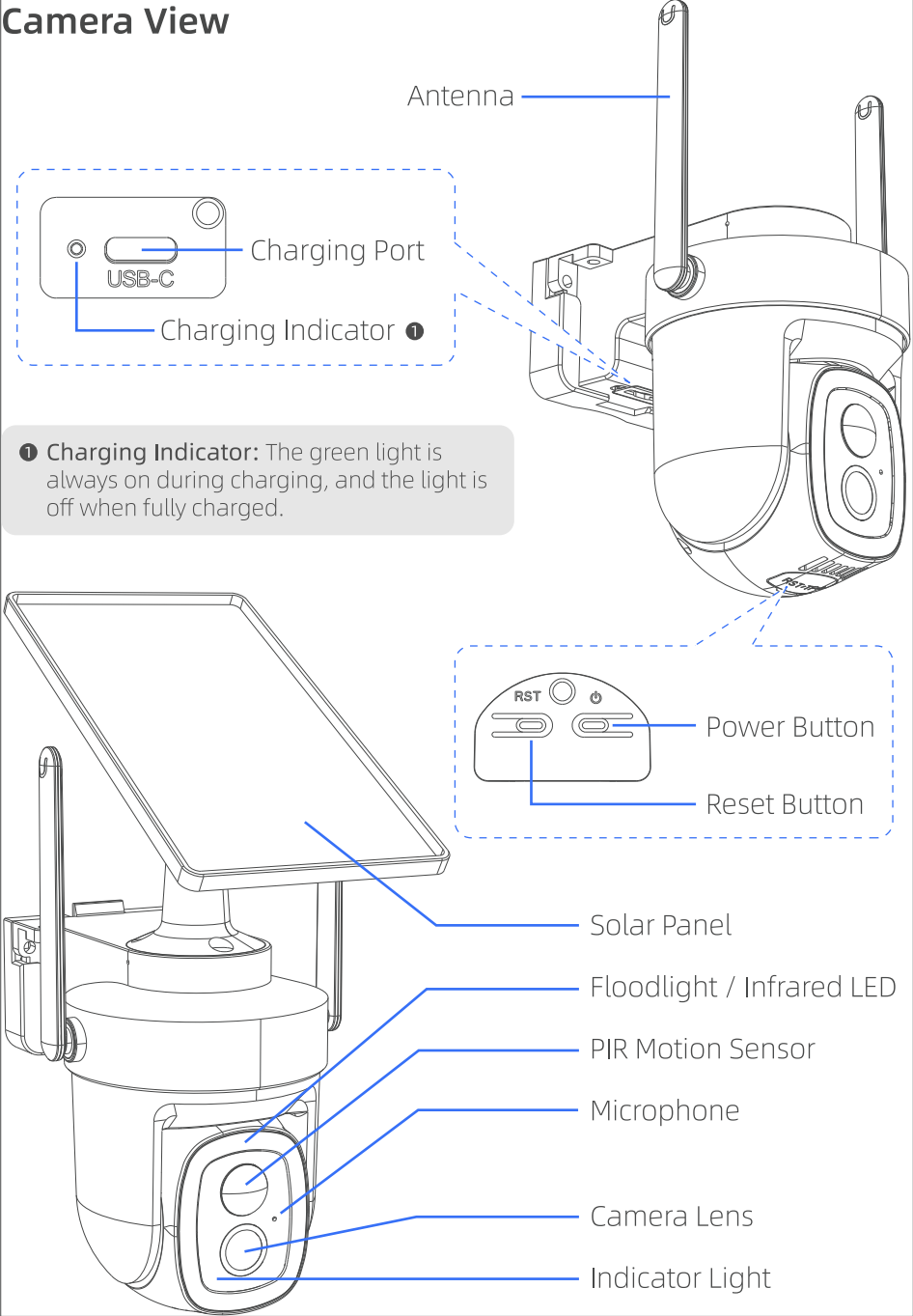
Ethernet Cable



User Manual

Product Overview

Camera View

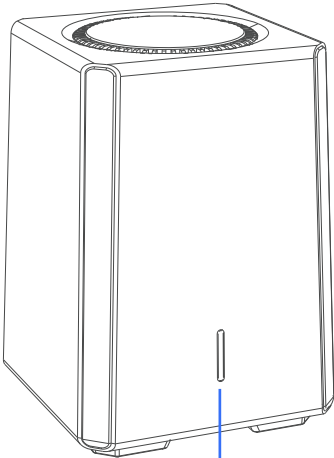


Camera Indicator & Button

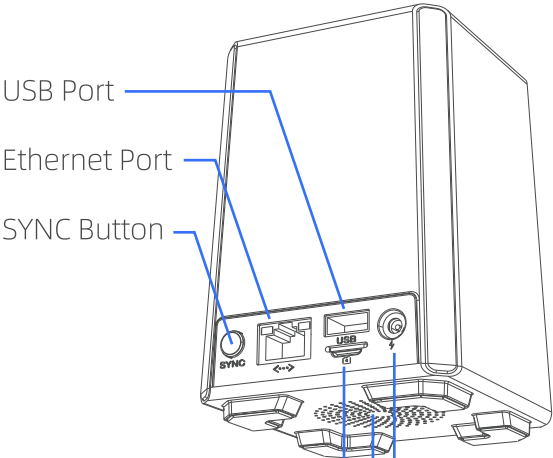
Camera Command Indicator Definition	Scenarios	Lighting Rules (Red/Blue Lights)
	Power on	Blue light stays on for 3 seconds
	Pairing	Blue light flashes at 1Hz
	Upgrading	Blue light flashes at 2Hz
	Normal operation	Blue light stays on
	Production testing	Red and blue lights flash alternately at 1/3Hz
	Camera aging	Red and blue lights stays on
	Network abnormality	Red light flashes at 0.5Hz
	Low battery (Battery level ≤ 20%)	Red light flashes once every 3 seconds, each flash lasting 1 second, until charging bgins 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

Home Base View



Status LED



USB Port

Ethernet Port

SYNC Button

Memory Card Slot

Speaker

Power Port

HomeBase Indicator & Button

Lights at the HomeBase	Scenarios	Lighting Rules (Red/Blue Lights)
	Network Normal	Blue light stays on
	Boot	Red light stays on
	Network Disconnection	Red light flashes slowly
	Upgrade	Red and blue lights flash
	Network Congiguration	Red light flashes slowly
SYNC Button Definitions	Scenarios	Button Press Definition
	Binding	Press and hold for 5 seconds
	Reset	Press and hold for 10 seconds

Account Registration

Download and Install KooCam App

- Scan the QR code below to download and install the app.
- Search "KooCam" on **APP Store™** or **Google Play™** to download and install the app.



Account Registration

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

- Click "Register" to create a new account.
- Select your region, fill in your email address and create a password.
- Click "Register" again, the App will send a verification email to your mailbox.
- Find the corresponding email in your mailbox and select "Verify"
- 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.

Welcome Back

United States >

Enter your email

Enter your password

☐ Remember Password [Forgot password](#)

[Log in](#)

[Register](#) 

☐ I understand and agree to the [\[User Agreement\]](#) and [\[Privacy Policy\]](#)

Create Account

United States >

Enter your email

Enter Password

Re-enter password

Password Rules
Password Should be 8-20 characters with uppercase and lowercase letters and numbers

[Register](#)

☐ I understand and agree to the [\[User Agreement\]](#) and [\[Privacy Policy\]](#)

Create Account

[Help](#)



We have sent an email to **steel.gid@outlook.com**

Kindly check your email and use the link to complete verification

Verification emails may be filtered. If not found in your inbox, please check spam/junk folders

59s

[Open Mailbox](#)

Enable Permissions

Please turn on both of the following permissions.

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

Apps

Koocam

ALLOW KOOCAM TO ACCESS

Photos Full Access >

Bluetooth ☒

Local Network ☒

Microphone ☒

Camera ☒

Siri >

Search >

Notifications >
Banners, Sounds, Badges

Background App Refresh ☒

Wireless Data >
WLAN & Cellular

PREFERRED LANGUAGE

Language English >

Koocam

Notifications

Allow Notifications ☒

ALERTS

Lock Screen ☒

Notification Center ☒

Banners ☒

Banner Style Temporary >

Sounds ☒

Badges ☒

ANNOUNCE

Announce Notifications Off >

LOCK SCREEN APPEARANCE

Show Previews When Unlocked (Defa... >

Notification Grouping Automatic >

Koocam

Wireless Data

ALLOW "WIRELESS DATA" TO USE DATA

Off

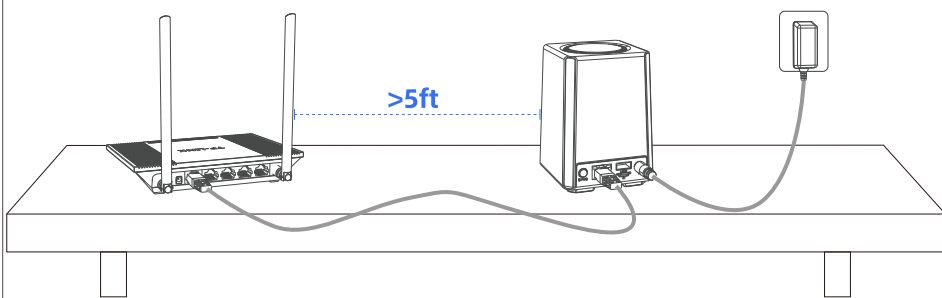
WLAN

WLAN & Cellular Data ☒

Pair Up the HomeBase

Connect the HomeBase to The internet

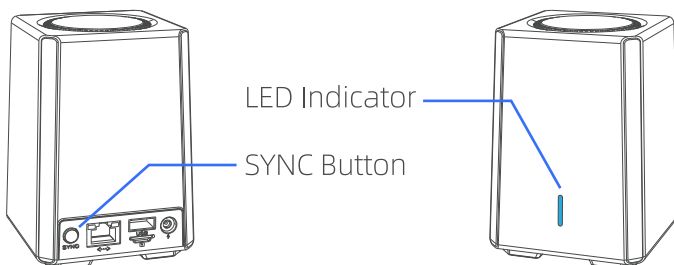
- **Power on the HomeBase:** Please use the original 12V/1A power adapter in the package. Once the homebase is plug in, the LED indicator turns red.
- **Connect the HomeBase to your router's LAN port:** Use the provided ethernet cable to connect the homebase to your home router. Wait for 1 minute until the LED indicator changes from red to blue, which means network is available.



Note:

The distance between the HomeBase and the router must be greater than 5 ft to avoid interference affecting the signal.

- **Prepare for pairing:** Once the LED turns blue, press and hold the "SYNC" button for 5 seconds until you hear a "di" sound. Wait for the LED to change from solid blue to blinking blue, indicating that the HomeBase is ready for pairing.



Pair the HomeBase with Your Network

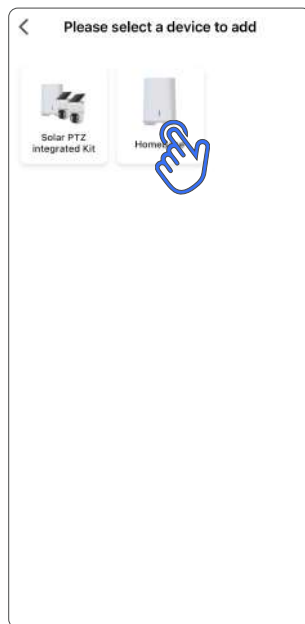
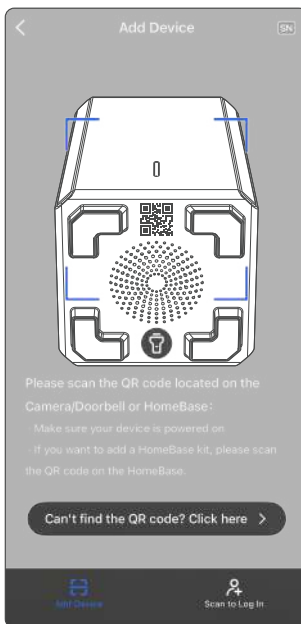
Note:

Please check the below points before pairing:

Network Check: Ensure your router is functioning and the HomeBase 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).

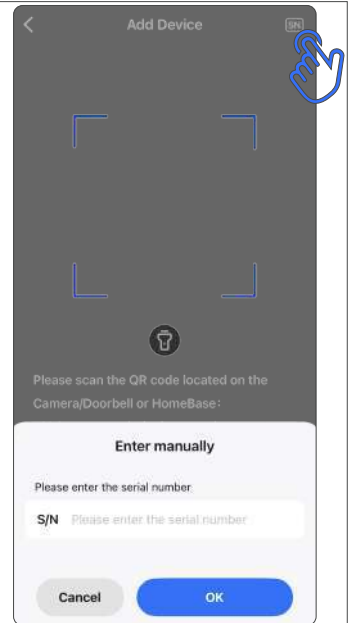
- **Add Device:** Open the app and tap the "+" icon on the home screen.
- **Scan to Pair:** Scan the QR code located on the bottom of HomeBase.
- **Automatic Connection:** Choose "HomeBase", Keep your phone close to the HomeBase and then follow the app instructions to complete pairing.



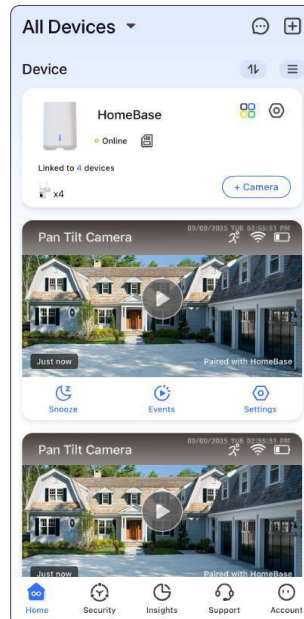
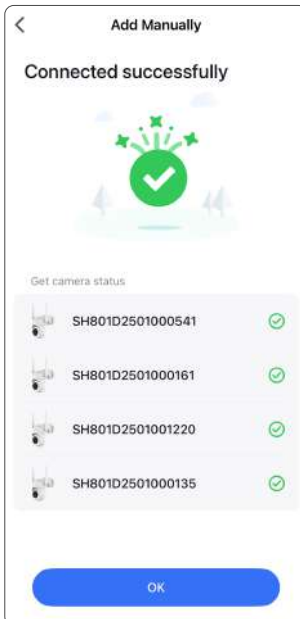
Note:

If scanning fails, you can manually add the device.

- click the "SN" button in the upper-right corner of the "Add Device" interface to manually enter the serial number (found on the HomeBase label).
- Then follow the app instructions to complete pairing.



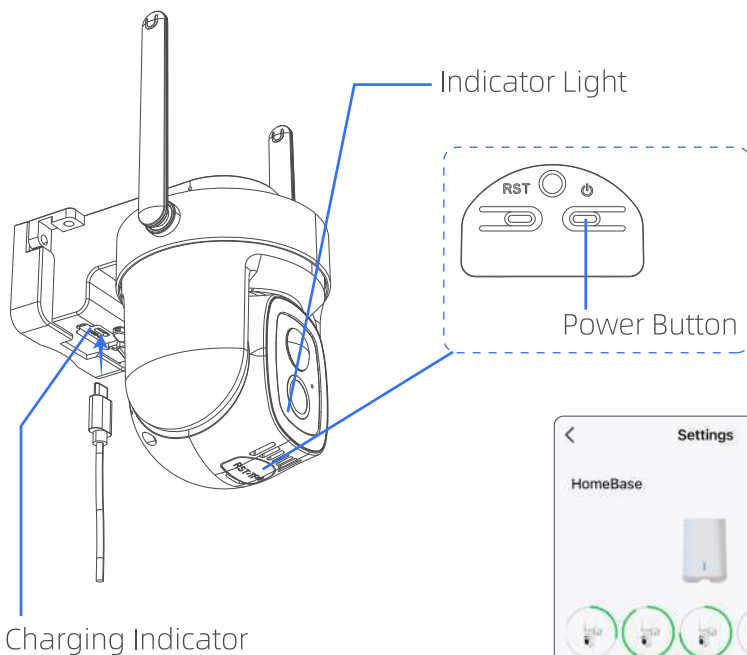
- **Congratulations!** You have paired the HomeBase with your network successfully.



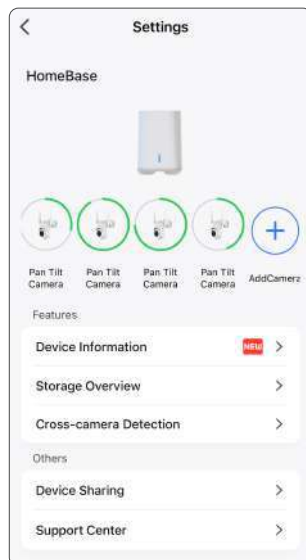
Pair Up the Camera

Cameras included in the kit

- **Charge the cameras:** Please full charge the cameras with the included USB-C cable before using. The charging indicator turns green when it is charging and it turns off when it is fully charged.
- **Turn on the cameras:** Press and hold the "⏻" button at the bottom for about 3 seconds, the blue light of the camera lights up, and the device starts up.



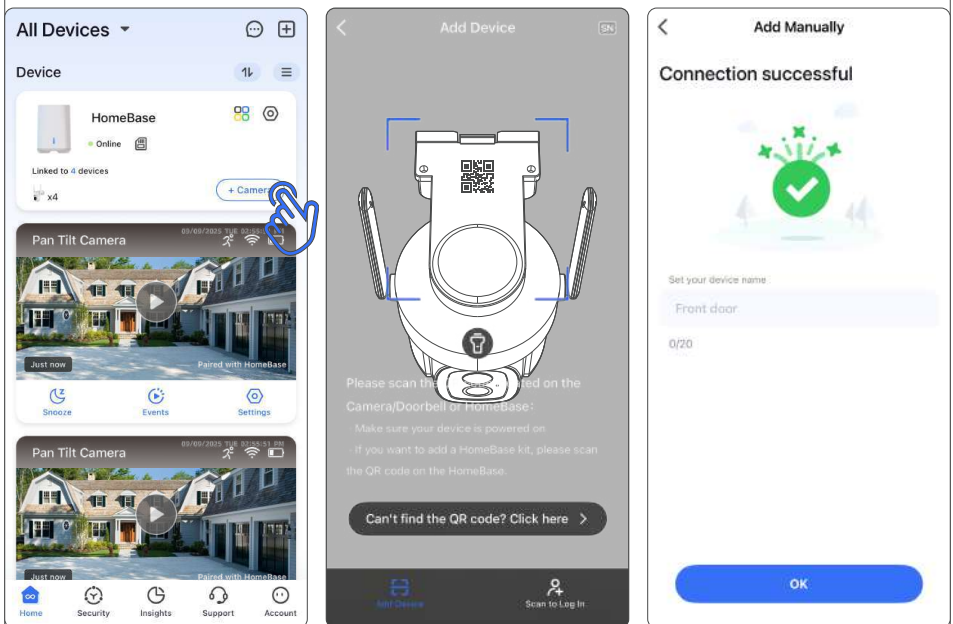
- **Connect the cameras to Homebase:** Cameras of the cam kit are connected with the homebase in default settings. Simply turn on the cameras, then the connection is complete.



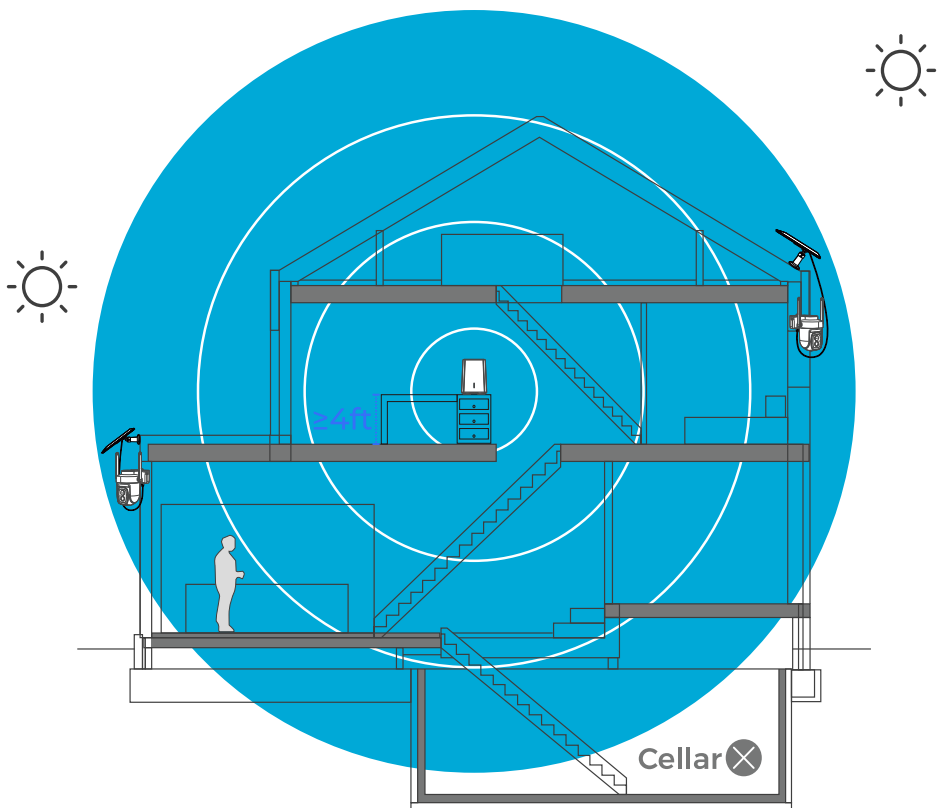
Add a New Camera

If a camera is deleted or you want to add a new camera, please follow below steps to reconfigure the cameras.

- **Turn on the cameras:** Press and hold the "⏻" button until the indicator lights up, confirming successful power-on.
- **Enter Pairing Mode:** Double-press the "⏻" button, there will be a prompt sound and the blue indicator light will flash.
- **Add Camera:** Open the app and tap the "+ Camera" icon on the home screen.
- **Scan to Pair:** Scan the QR code on the camera and then follow the app instructions to complete pairing.
- **Finish Pairing:** Set your device name and confirm.



Mounting the Camera



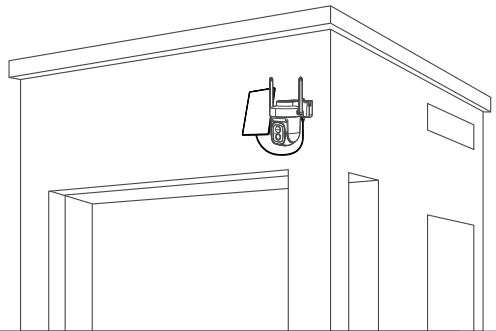
Installation Planning & Signal Optimization

- **HomeBase Signal Range:**
Signal range extends up to 328ft / 100m in open areas without obstacles. Walls, glass, and other barriers may cause signal interference.
- **HomeBase Placement Tips:**
 1. Position the HomeBase at the center of cameras and 3.94ft / 1.2m above ground.
 2. Avoid placing the HomeBase in basements or enclosed spaces.

Pre-Installation Wi-Fi Signal Test

- **Signal Quality Check:**

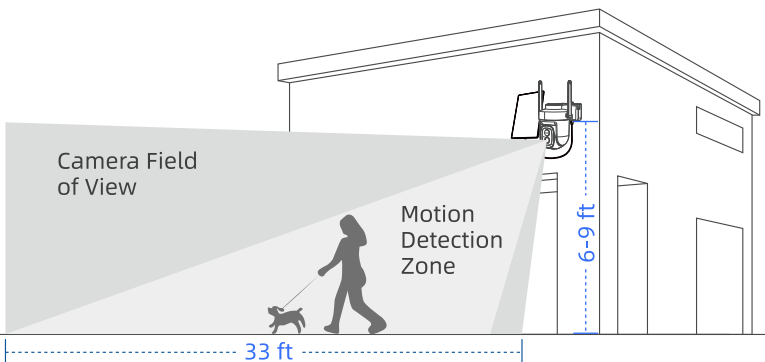
1. Temporarily place the camera at the intended mounting spot and test Wi-Fi signal quality with your phone.
2. Ensure the camera signal strength displayed on the app is greater than 2 bars (out of 4 bars).



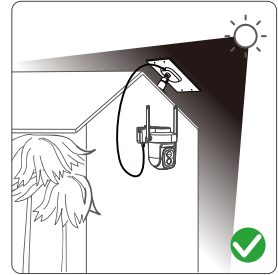
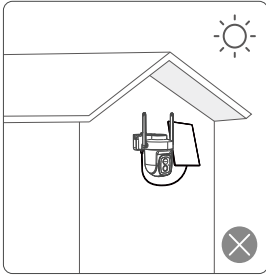
Camera Height & Orientation

- **Mounting Height:**

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

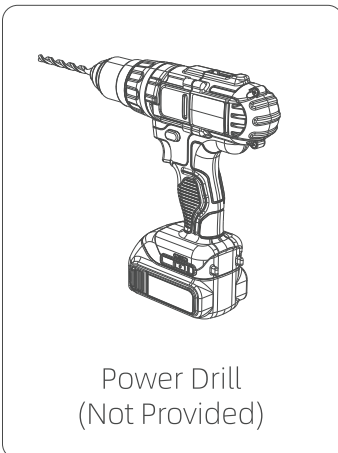


- **Hemisphere-Specific Orientation:**
Northern Hemisphere: Face the camera south.
Southern Hemisphere: Face the camera north.
- **Avoid Obstructions:**
Ensure no obstructions (e.g., eaves, branches) block the camera.



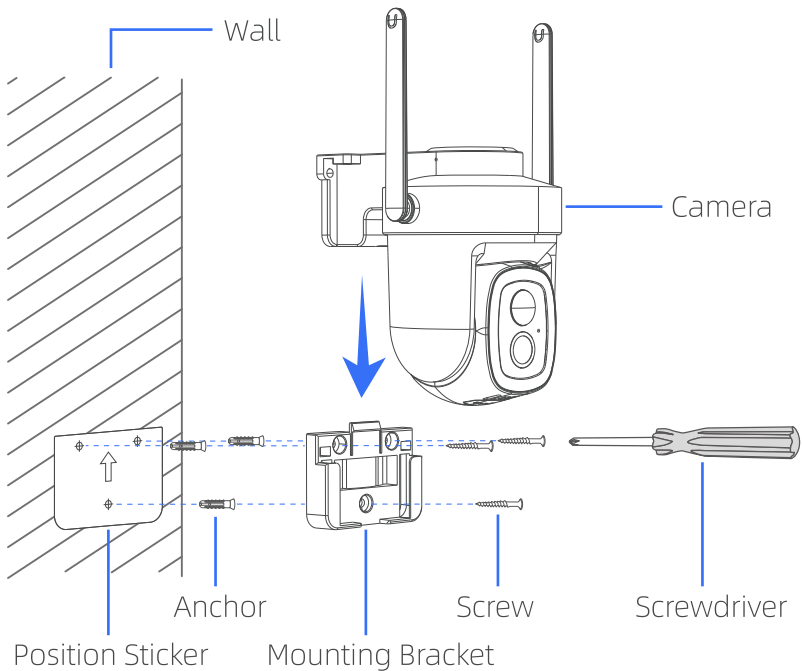
Pre-Installation Preparation

- **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.
- **Installation Tools:** Power drill & drill bit.



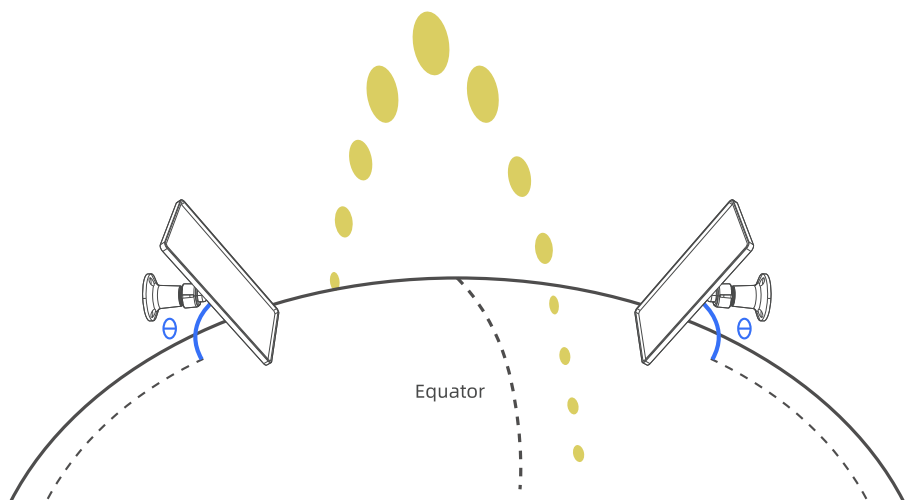
Install the Camera

- Drill holes in the wall where the camera will be mounted, following the hole positions on the position sticker.
- Insert the anchors, then secure the wall mount bracket to the wall with screws.
- Snap the camera into the bracket from above.



Install the Solar Panel

- **Location & Angle optimization**
 1. Choose a spot with maximum sunlight exposure and no obstructions (e.g., trees, eaves).
 2. The amount of energy that the solar panel can produce is affected by the weather conditions, seasonal changes, geographic locations, etc.
 3. Optimal angle = Local Latitude + 5°



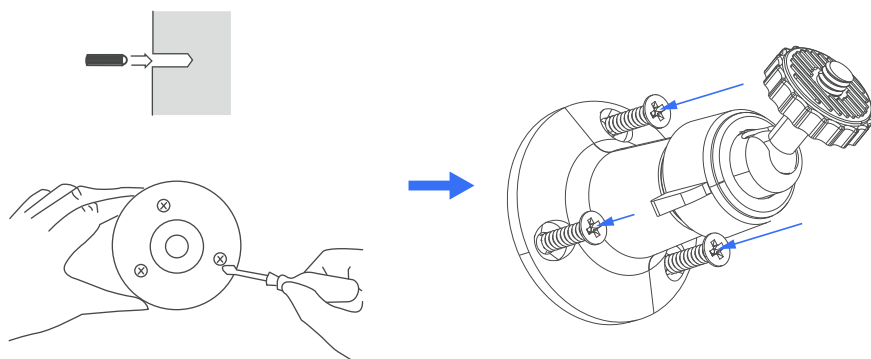
The Northern Hemisphere

The Ideal Angle = The Local Latitude $\pm 5^\circ$

The Southern Hemisphere

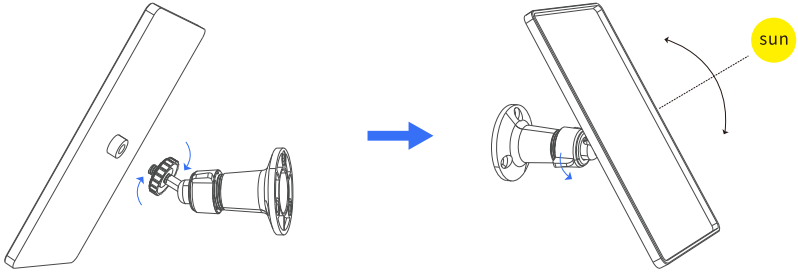
• Mount the Panel Separately

1. Use the drilling tool to punch holes in the wall or tree according to the hole distance of the base. It is recommended to mark the holes on the wall or tree before drilling with the drilling template sticker.
2. Screw the anchors into the holes, and then connect the solar panel bracket to the anchors with screws.



- **Adjust the Panel Angle**

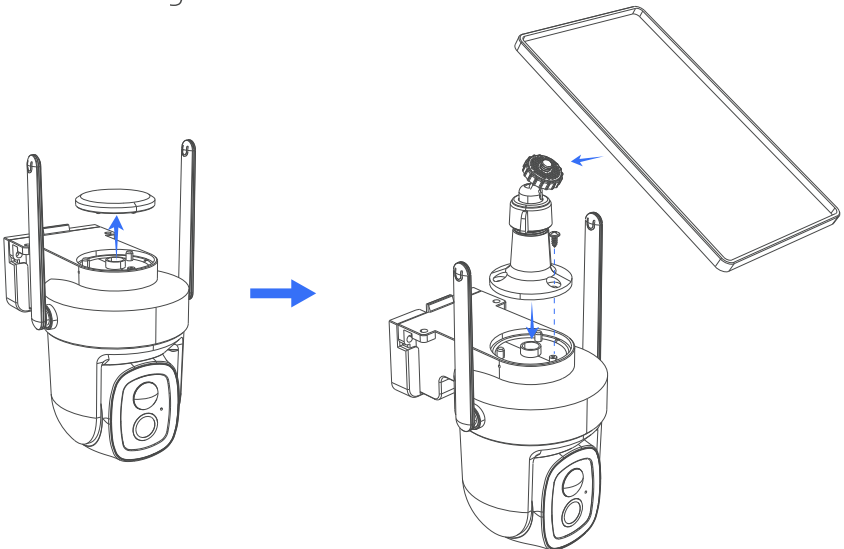
Slot the solar panel into the bracket and make sure it's secure. Loosen the adjusting control on the bracket and adjust the angle of the solar panel to make it receive direct sunlight, and then re-tighten the adjusting control to secure your setting.



- **Mount the Panel on Camera (Optional)**

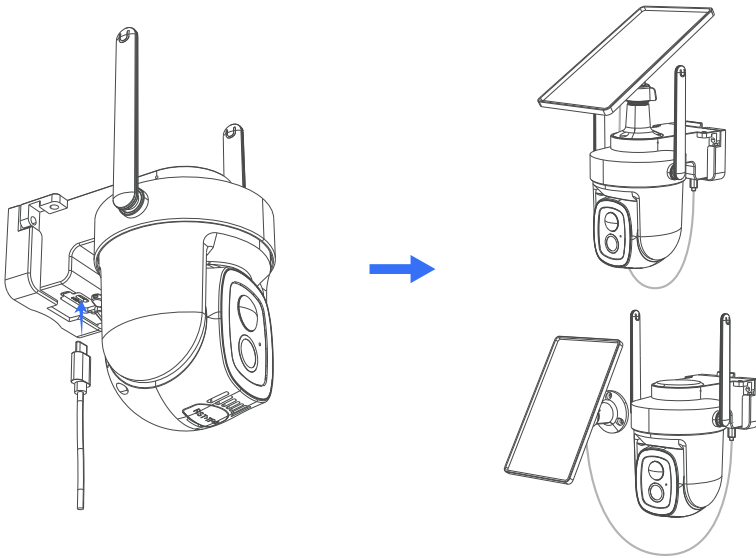
You can also install the solar panel directly on the camera.

1. Remove the silicone cover from the top of the camera.
2. Align the solar panel bracket with the groove on the top of the camera, then tighten the screws.
3. Mount the solar panel onto the bracket and adjust it to the desired angle.



- **Connect the Camera Charging Port**

Connect the solar panel to the charging port of the camera, and then re-cover the charging port with the rubber plug for full weather resistance.



Maintenance & Precautions

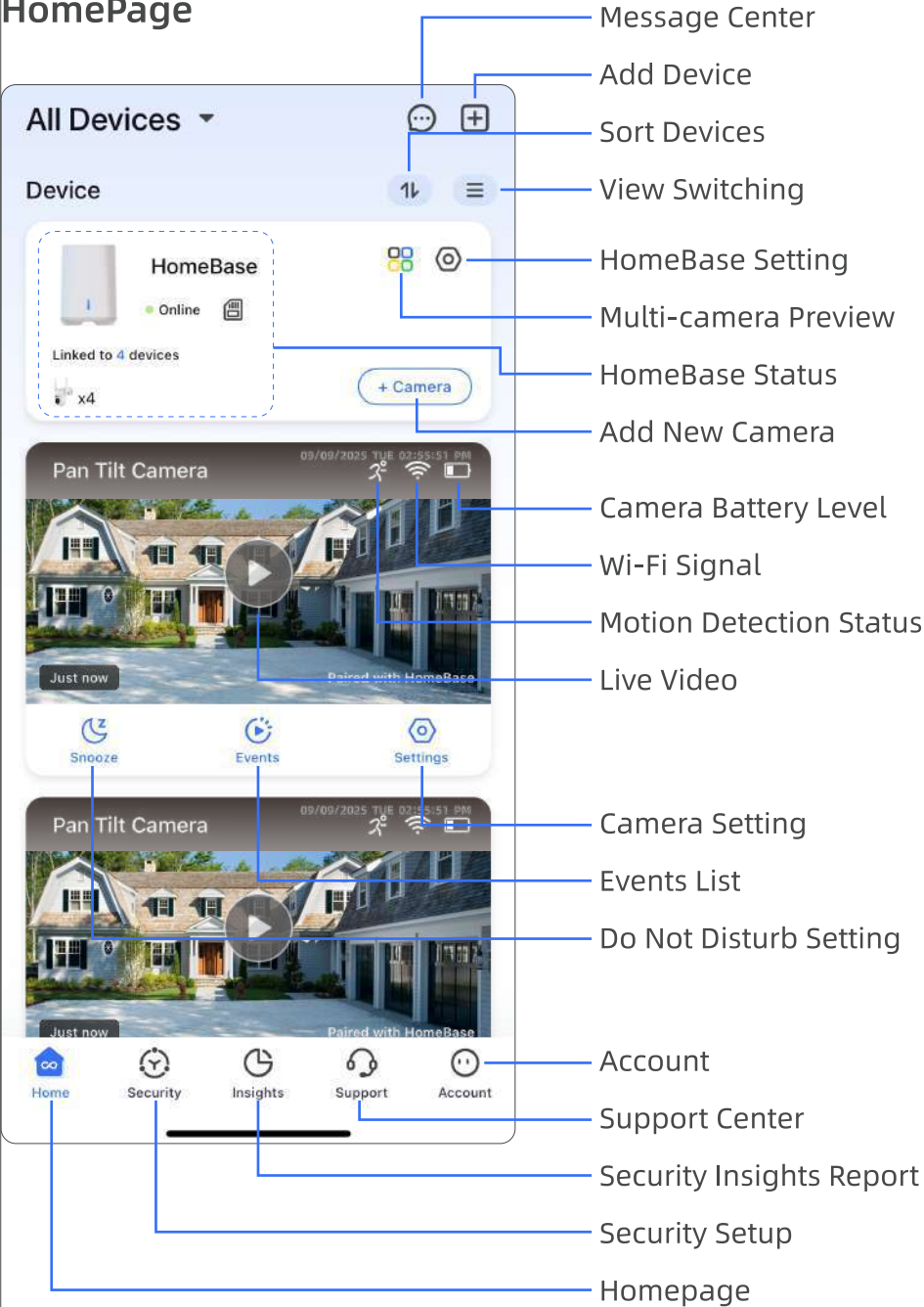
- **Regular Cleaning:** Wipe the panel monthly with a soft cloth to remove dust and debris.
- **Avoid Obstructions:** Partial obstructions (e.g., leaves) can drastically reduce efficiency.
- **Extreme Weather Tips:** Clear snow promptly after storms → Check rubber seals during heavy rain.

Technical Specifications

Item	Sprcifications	
Image Quality	Resolution	8MP 3840H x 2160V (16:9)
	Image Sensor	1/2.8" Progressive Scan CMOS
Lens Specifications	Viewing Angle	Diagonal: 100.6° Horizontal: 84.4° Vertical: 44.3°
	Focal Length	4mm
Video Specifications	Video Format	H.265
	Frames Per Second	15fps
	Memory Card Support	8GB ~ 128GB Max, Cloud Storage
Communications	Wireless Security	WEP, WPA, WPA2
	Wi-Fi	2.4 GHz, IEE 802.11b/g/n
Battery	Solar Panel	2W
	Battery Capacity	3.6V/5200mAh 2pcs 18650
	Standby Time	Max 6 months
	Charger	Charger
Applicable Enviroment	Temperature	-20°C ~ 50°C (-4°F ~ 122°F)
	Humidity	20% ~ 85%, Non-condensing
PIR	PIR Angle	110°
	PIR Range	30 ft
System Support	Android 2.3 Above / iOS 7.0 Above	

Detailed App Instructions

HomePage



HomeBase Setting Interface

The diagram illustrates the HomeBase Settings app interface, showing the main settings screen and three detailed sub-interfaces.

Main Settings Screen:

- Settings** (Header)
- HomeBase** (Device Name)
- Device Image** (Visual representation of the HomeBase unit)
- Cameras** (Four Pan Tilt Camera icons, each with a green circle around it)
- AddCamera** (Button to add a new camera)
- Features** (List of settings):
 - Device Information** (Link to detailed device information)
 - Storage Overview** (Link to storage status and management)
 - Cross-camera Detection** (Link to cross-camera detection settings)
- Others** (List of other settings):
 - Device Sharing** (Link to device sharing settings)
 - Support Center** (Link to support resources)
- Restart Device** (Button to restart the device)
- Delete Device** (Button to delete the device)

Device Information Screen:

- Device Information** (Header)
- Basic Information** (Section)
 - Device Name**: HomeBase
 - Device Model**: SH801
 - Serial Number**: XMID73JH249009CB
 - MAC**: 34:C8:D6:11:C3:0D
 - IP**: 192.168.31.140
- Version Information** (Link to version details)

Storage Overview Screen:

- Storage Overview** (Header)
- Local Storage** (Section)
 - Erase & Format** (Button)
 - 0.08 GB used** (Text)
 - Used**: 0.08GB
 - Free**: 58.84GB
 - Total**: 58.92GB

Cross-camera Detection Screen:

- Cross-camera Detection** (Header)
- Cross-camera Detection** (Section)
 - Turned off** (Text)
 - Recordings will no longer be automatically grouped.** (Text)

Camera Video Preview Interface



Camera Setting

Camera Battery Level

Video Playback

Time and Date

Wi-Fi Signal

Full Screen

Resolution

Generate Panorama

Camera Rotation Control

Alarm on/off

Camera Calibration

Cruise

Floodlight LED on/off

Sound on/off

Intercom

Video Recording

Screenshot

Camera Setting Interface

Pan Tilt Camera



Power Mode

 77%

Motion Detection



Features

Device Information

Default View

Human Tracking

Light Settings

Video Settings

Audio Settings

Notification Settings

Others

Install Wizard

Device Sharing

Support Center

Camera Switch



Events

0 Event

Power Management

Power Mode

Optimal Battery Life

20-second max clip length. The system will optimize detection intervals to prevent repeated triggers in a short time.

Optimal Surveillance

60-second max clip length. The system will capture each event for the full available duration.

Camera on/off

Events List

Motion Detection:

- PIR on/off

- Sensitivity Setting

- Human Detection

- Pet Recognition

- Vehicle Recognition

- Detection Zone

Default Zone Setting



In order to ensure the effective detection of the camera and avoid missing alarms, please set the default monitoring position first. After the default monitoring position is set, the camera will automatically return to the default position after moving or rotating the PTZ.

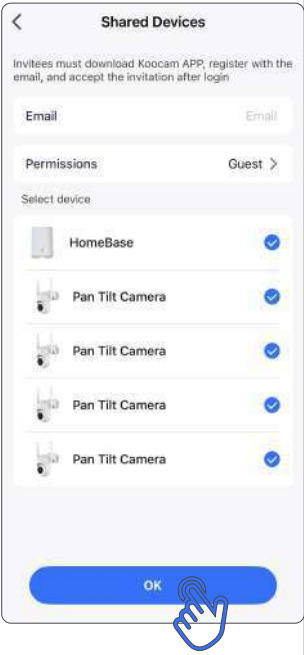
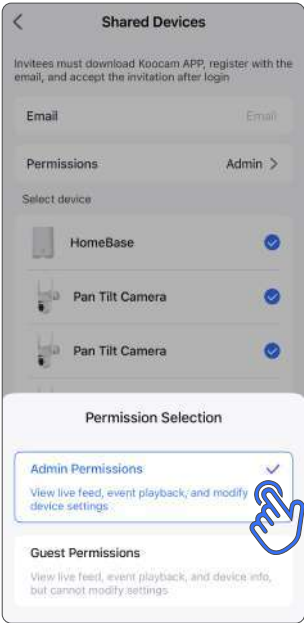
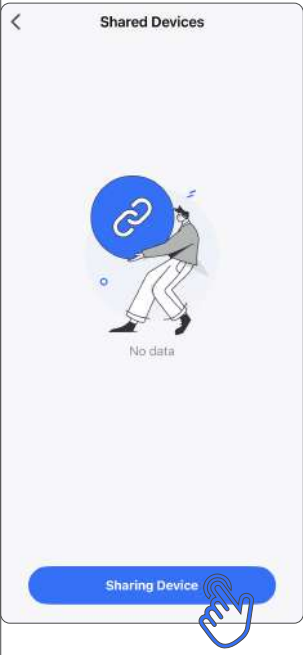
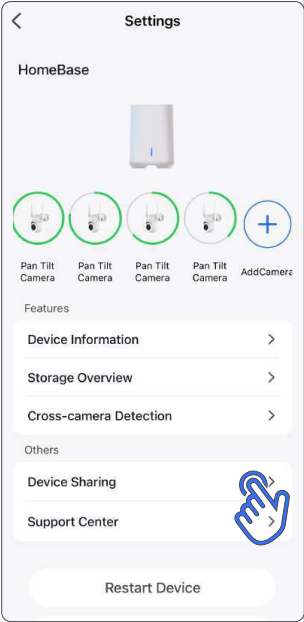
23

How to Share Your Camera

- Enter the HomeBase settings interface and click **"Device Sharing"**.
- Click **"Sharing Device"**, then enter the email address of the user to be shared with, then select permissions (Admin Permissions / Guest Permissions).
- Select the device to be shared, then click **"OK"**.
- The app of the user being shared with will display a sharing prompt. Click **"Accept"** to complete the sharing.

Note:

The shared user need to register a **"KooCam"** account by using their email first.



FAQ

- **What should I do in case of HomeBase disconnection?**
 - (1) Check whether HomeBase is power off.
 - (2) Check whether your router can be accessible to internet successfully.
 - (3) Try to restart the router.
- **Why does the network configuration always fail?**
 - (1) Ensure that the camera is in a pairing status before network configuration.
 - (2) Check if HomeBase is power off and the power adapter is normally connected.
 - (3) Confirm that the router can be connected to network normally (the phone in the same network can access to the internet).
 - (4) Check if the distance between camera and HomeBase is proper: it varies depending on different factors, such as wall thickness, barriers in the house and location of HomeBase.
- **What should I do in case of camera disconnection?**
 - (1) The camera runs out of power:
Check whether the camera runs out of power and if so, charge it as soon as possible.
 - (2) The camera is turned off:
Long press the Power button for 5 seconds to start the camera.
 - (3) The camera is too far away from HomeBase:
Inspect the distance between HomeBase and the camera, and reduce it if too long.
 - (4) There is a barrier between the camera and HomeBase:
Discover whether there is a barrier between HomeBase and the camera, and remove it if any.
 - (5) The camera is faulty:
Inspect whether the camera is faulty, and if so, please contact our after-sales personnel for repair.

- **Blurry Night Vision or No Infrared Activation.**
 - (1) Clean the camera lens and infrared LEDs with a microfiber cloth. Avoid strong ambient light (e.g., street lamps) by adjusting the camera angle.
 - (2) Enable the floodlight in the app (Camera Settings→Video Settings→Night Vision→Full-Color).
- **Motion Detection Alerts Not Triggered.**
 - (1) Enable notifications for the KooCam app (Settings→Notifications).
 - (2) Remount the camera at 6-9ft (1.8-2.7m) height with a clear detection zone.
 - (3) Calibrate PiR sensor sensitivity in the app (Settings→Motion Detection).
- **Why can't I receive event notification?**
 - (1) First, check whether the Settings-Notification-Push Management Enable is on (it should be enabled).
 - (2) Then, confirm Phone-Settings-Message-Allow KooCam APP to send message (it should be allowed).
 - (3) Finally, find if the phone enables "Do Not Disturb" (it should be disabled).
- **How to optimize the battery life?**
 - (1) Adjust the shooting direction to reduce unnecessary motion detection events.
 - (2) Do not frequently watch live videos.
 - (3) Reduce the motion detection sensitivity settings.
 - (4) Set a motion detection zone to decrease motion detection events or mistakes.
- **Low Solar Charging Efficiency.**
 - (1) Adjust the solar panel angle to match local latitude (e.g., Latitude +5° in Northern Hemisphere).
 - (2) Clean dust, snow, or debris from the panel surface.
 - (3) Temporarily charge the camera via the included USB cable (7-8 hours to full charge).

FCC Compliance Statement

FCC WARNING:

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

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.

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 the receiver.
- Connect the equipment to 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.

FCC RADIATION EXPOSURE STATEMENT:

This equipment complies with FCC 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 & your body.

This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.