



Manuals.plus /

- › AOSU /
- › AOSU 5MP Solar Security Camera System User Manual

AOSU 3-Cam Kit

AOSU 5MP Solar Security Camera System User Manual

Model: 3-Cam Kit

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your AOSU 5MP Solar Security Camera System. This system is designed to provide reliable outdoor surveillance with advanced features such as 5MP UHD resolution, solar power, and intelligent detection capabilities. Please read this manual thoroughly before using the product to ensure proper setup and optimal performance.

2. PACKAGE CONTENTS

Verify that all components are present in your package. If any items are missing or damaged, please contact customer support.



Image: The complete AOSU 5MP Solar Security Camera System, featuring three white bullet-style cameras, three rectangular solar panels with mounting brackets, and a white cylindrical home base unit.

- AOSU 5MP Wireless Outdoor Camera (3 units)
- Solar Panel with 10ft Cable (3 units)
- Home Base Unit (1 unit)
- Mounting Screws and Wall Anchors
- USB Charging Cable
- Ethernet Cable
- Quick Start Guide
- Warning Sticker

3. PRODUCT OVERVIEW

3.1 Camera Components

- **Lens:** Captures video footage.
- **Infrared LEDs:** Provides illumination for night vision.
- **Spotlight:** Activates upon detection for color night vision and deterrence.
- **Microphone:** Captures audio for two-way communication.
- **Speaker:** Enables two-way audio and siren output.

- **PIR Motion Sensor:** Detects motion for alerts and recording.
- **Mounting Thread:** For attaching to the solar panel or other mounts.
- **Charging Port:** Connects to the solar panel or USB charger.

3.2 Home Base Components

- **Status Indicator Light:** Shows the operational status of the home base.
- **Sync Button:** Used for pairing cameras.
- **Ethernet Port:** Connects to your router.
- **USB Port:** For external storage (if applicable) or charging.
- **Power Port:** Connects to the power adapter.
- **Built-in 32GB eMMC Storage:** Secure local storage for recordings.

4. SETUP

4.1 Initial Charging

Before installation, fully charge each camera using the provided USB cable and a standard 5V/2A USB power adapter (not included). The indicator light on the camera will turn solid blue when fully charged.

4.2 Home Base Connection

1. Connect the Home Base to your router using the provided Ethernet cable.
2. Connect the Home Base to a power outlet using the provided power adapter.
3. Wait for the status indicator light on the Home Base to turn solid blue, indicating it is ready for pairing.

4.3 App Installation and Account Creation

1. Download the "AOSU Security" app from the App Store (iOS) or Google Play Store (Android).
2. Open the app and follow the on-screen instructions to create an account.

4.4 Pairing Cameras

1. In the AOSU Security app, tap the "+" icon to add a new device.
2. Select your camera model from the list.
3. Press and hold the Sync button on the Home Base until the indicator light flashes blue.
4. Bring the camera close to the Home Base (within 1-3 feet).
5. Press the Sync button on the camera (usually located under a rubber flap) until you hear a chime or see an indicator light flash.
6. Follow the app's instructions to complete the pairing process for each camera.

4.5 Camera and Solar Panel Installation

Choose an installation location that provides optimal sunlight exposure for the solar panel and a clear view for the camera. Ensure the camera is within range of the Home Base's Wi-Fi signal.

Flexible Installation

Separated solar panel with 10 feet cable make it flexible to install anywhere. Forever solar power without any wiring hassles.



Built-in Battery



Flexible Solar Panel



10 Feet Cable



Image: An AOSU security camera mounted on a wall, connected via a 10-foot cable to a solar panel mounted higher on the house, illustrating flexible installation options.

1. **Mounting Location:** Select a sturdy surface for mounting the camera and solar panel. The solar panel should receive at least 2-3 hours of direct sunlight daily for continuous charging.
2. **Drilling:** Use the provided mounting template (if available) to mark and drill holes. Insert wall anchors if installing on masonry or stucco.
3. **Attach Mounts:** Secure the camera mount and solar panel mount to the wall using screws.
4. **Attach Camera and Solar Panel:** Fasten the camera to its mount and the solar panel to its mount. Adjust the angles for optimal coverage and sunlight.
5. **Connect Cable:** Connect the 10-foot cable from the solar panel to the camera's charging port.

Broad Signal Coverage Enhanced Security

With Homebase, enjoy broader Wi-Fi coverage along with quick, stable connections that ensure seamless surveillance throughout your space.



Note: The homebase signal covers about 5200ft² / 484 m².

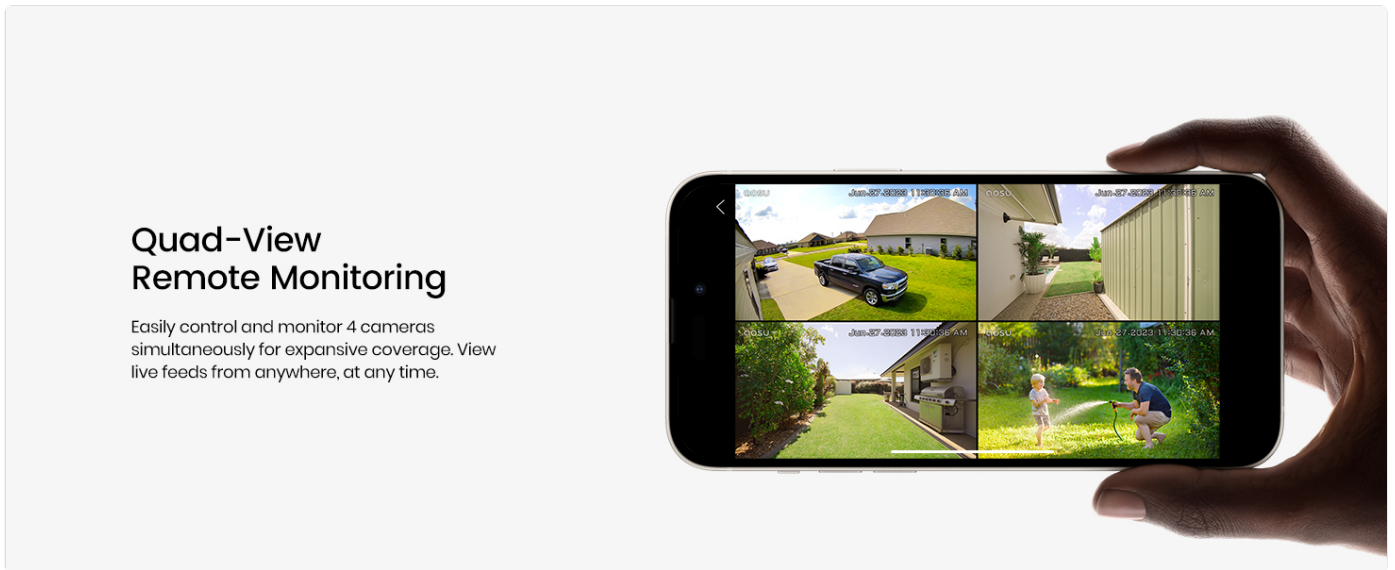
Image: A diagram depicting a house with a central home base unit and four security cameras positioned around the perimeter, connected via a broad Wi-Fi signal, indicating enhanced security coverage.

The Home Base provides broad Wi-Fi coverage, approximately 5200 sq ft (484 m²), ensuring stable connections for your cameras.

5. OPERATING YOUR SYSTEM

5.1 Live View and Remote Monitoring

Open the AOSU Security app to access live feeds from your cameras. You can view multiple cameras simultaneously in a quad-view layout.



Quad-View Remote Monitoring

Easily control and monitor 4 cameras simultaneously for expansive coverage. View live feeds from anywhere, at any time.

Image: A hand holding a smartphone showing a quad-view display of four live camera feeds, demonstrating remote monitoring capabilities.

5.2 Event Playback

Recorded events are stored locally on the Home Base's 32GB memory. Access and review these events through the app. The system supports cross-camera tracking, linking related events from different cameras for a comprehensive timeline.

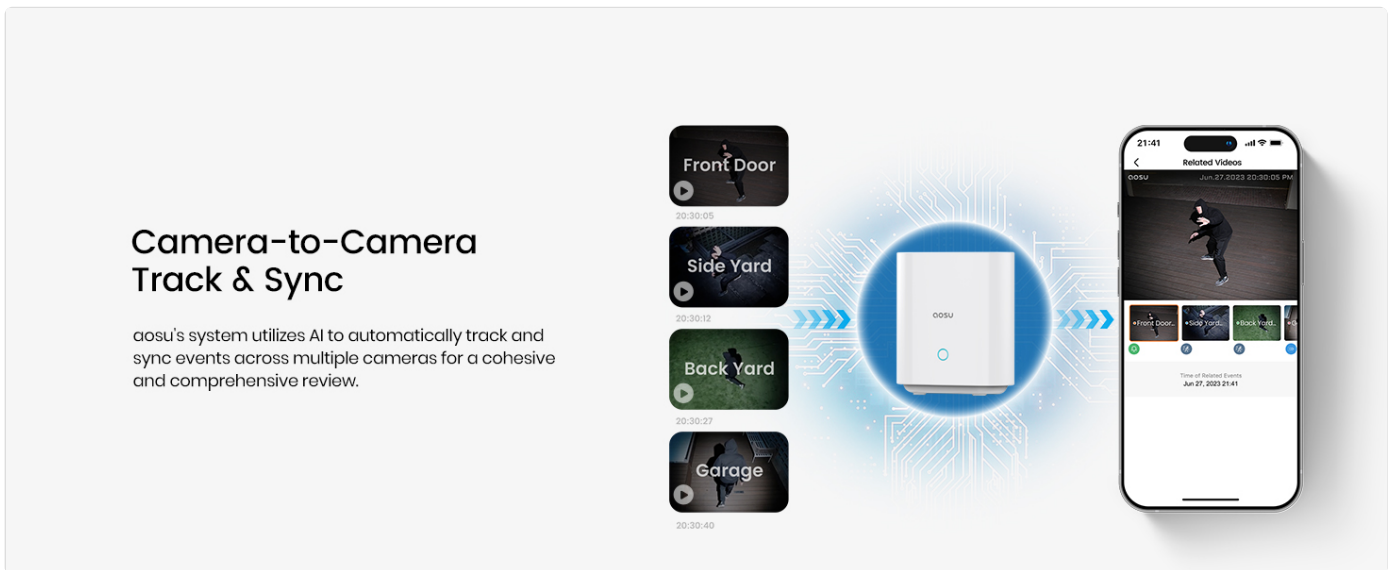


Image: A visual representation of the camera-to-camera track and sync feature, where events from different cameras (Front Door, Side Yard, Back Yard, Garage) are consolidated and displayed on a smartphone app via the home base.

Day at a Glance

Effortlessly sort and review your day's events by date, then download with a single tap.

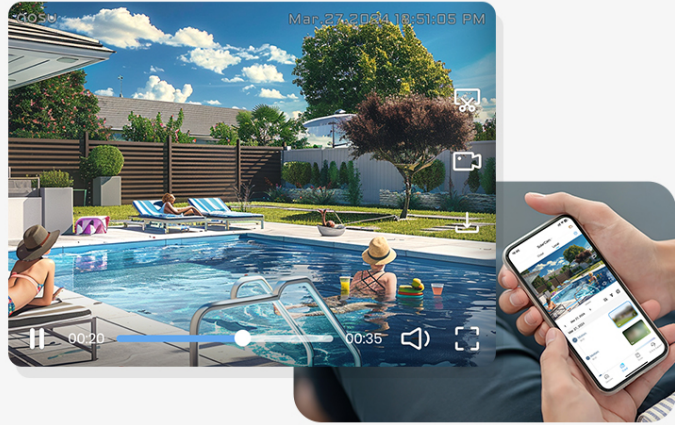


Image: A smartphone screen showing the "Day at a Glance" feature within the app, with a video playback timeline and thumbnails of recorded events, enabling easy review and download.

5.3 Smart Control Modes

Configure custom security modes (e.g., Away mode, Home mode) within the app to automate camera behavior based on your schedule or presence.

Smart Control

Pre-set your camera's modes for an automated experience. Effortlessly switch security settings with a single tap when you head out or return, syncing with your lifestyle.

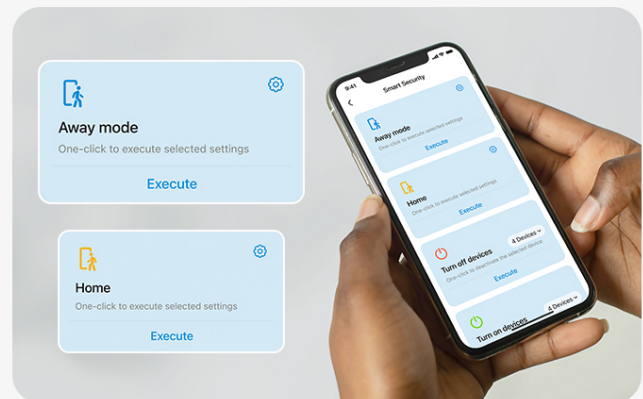


Image: A smartphone displaying the "Smart Control" section of the app, with options for "Away mode" and "Home mode" that allow one-click execution of pre-set security settings.

6. KEY FEATURES

6.1 5MP High-Definition Clarity

The cameras capture video in 5MP UHD quality, offering 40% more detail than traditional 2K systems. This ensures clear and vivid visuals day and night.

See More than Detail

40% Improvement over 2K! Ultra-HD pixels and accurate color reproduction make what you see more realistic.



Image: A side-by-side comparison of a security camera image, highlighting the enhanced detail and color reproduction of AOSU 5MP compared to a standard 2K resolution.

6.2 166° Ultra-Wide-Angle View

Equipped with advanced wide-angle lenses, the cameras provide a 166° field of view, minimizing blind spots and offering extensive coverage of your property. Sophisticated image correction technology ensures an accurate and expansive view.

166° Ultra Wide-angle

Capture everything with the 166° Ultra wide-angle lens, designed for an extensive, blind-spot-free view.

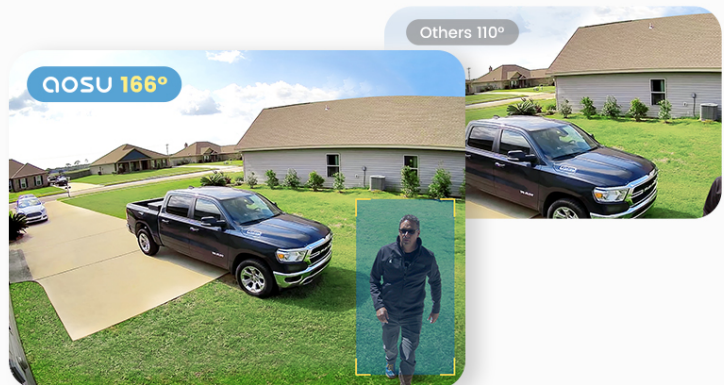


Image: A visual comparison showing the significantly broader coverage provided by a 166° ultra-wide-angle lens compared to a 110° lens, capturing more of the surrounding environment.

6.3 Day and Color Night Vision

The cameras automatically detect ambient light. In low-light conditions, they absorb 20% more light to reveal details in the dark. The integrated spotlight enables full-color night vision when activated by motion.

Day and Night Security

Automatically detects ambient light and absorbs 20% more light to reveal details in the dark.



Image: A split image illustrating the camera's performance in different lighting conditions, showing clear visibility during the day and detailed footage at night, enhanced by ambient light absorption.

6.4 Solar-Powered Operation

The included solar panels efficiently convert up to 30% of direct sunlight into energy, ensuring continuous operation for 365 days a year. This eliminates the need for frequent battery replacements.

High Efficiency Charging

Up to 30% of direct sunlight is converted into solar energy. Increasing solar charging efficiency by 1.5 times.

2Hrs

Sunlight for All-Day Power

1.5X

Improvement in Solar Charging

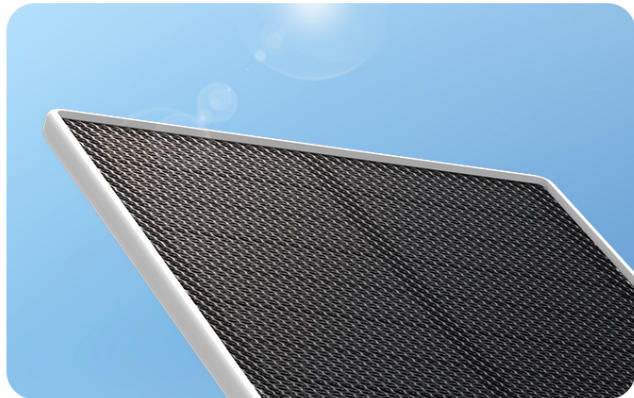


Image: A close-up view of a solar panel under bright sunlight, emphasizing its high efficiency in converting solar energy for continuous power, with text indicating "2Hrs Sunlight for All-Day Power" and "1.5X Improvement in Solar Charging".

6.5 Local Storage with No Subscription

The Home Base features a built-in 32GB eMMC memory, providing up to 120 days of encrypted video recording without any subscription fees. All data is stored locally for enhanced privacy.

Image: The AOSU home base unit with an illuminated graphic highlighting a 32GB storage chip, indicating secure, local, and private storage for recorded footage.

Lifetime Security No Monthly Fees

Invest once for lasting home safety. Enjoy full access to main features without mandatory subscriptions.



Note: Cloud storage incurs extra charges but is optional.

Image: A large numeral '0' covered in green grass, accompanied by a dollar sign, representing "Lifetime Security No Monthly Fees" for the system.

6.6 AI Precision Detection

Advanced AI with motion sensors provides accurate human detection, reducing false alerts and ensuring reliable monitoring.

AI Precision Detection

Advanced AI with motion sensors ensures day-to-night precision in human detection, guaranteeing accuracy and reliability while reducing false alerts.



Image: A security camera view of a backyard scene with a child, a dog, and an adult, all highlighted by AI detection boxes, demonstrating the system's precision detection capabilities.

6.7 Night Guard Security (Spotlight & Siren)

Upon detecting intruders at night, the camera can automatically activate its spotlight for clear color night vision and trigger a 120dB siren to deter unwanted visitors. You will receive prompt notifications.

Night Guard Security

Upon detecting intruders at night, the camera activates spotlights and a 120dB siren to deter intrusion, while promptly notifying you to ensure home safety.



Image: A person standing near a garage at night, illuminated by a security camera's spotlight, illustrating the "Night Guard Security" feature designed to deter intruders.

6.8 Customizable Activity Zones & Privacy Zones

Define specific activity zones to focus detection on important areas of your property. Configure privacy zones to shield sensitive areas from recording, ensuring personal privacy.

Monitor Areas That Matter

Customize activity zones to focus on important areas of your home, ensuring security where it's needed.



Image: A security camera's view of a driveway with a car and a person, showing a highlighted "activity zone" to focus monitoring on specific areas.

Discreet Area Settings

Configure privacy zones to shield sensitive areas from view, ensuring respect for personal spaces and community harmony.



Image: A house with certain areas (windows, porch) obscured by black rectangles labeled "privacy," demonstrating the ability to configure discreet area settings to protect sensitive spaces.

6.9 Immediate Alerts with Thumbnails

Receive instant notifications on your smartphone with lock screen thumbnail previews when motion is detected. Tap the notification to directly access live monitoring.

Immediate Alert

On detection, instantly receive notifications with lock screen thumbnail previews. Tap to dive straight into live monitoring.

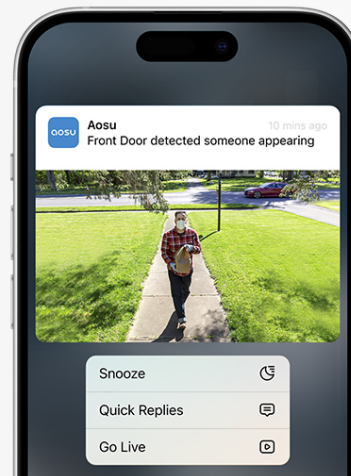


Image: A smartphone displaying an "Immediate Alert" notification from the AOSU app, featuring a lock screen thumbnail preview of a person detected at the front door, with options to snooze, quick reply, or go live.

6.10 Two-Way Audio

Communicate with visitors or deter unwanted guests using the built-in microphone and speaker for two-way audio communication via the app.

Two-Way Audio

Chat effortlessly with visitors from anywhere. aosu's app provides quick responses and male voice transformation for added privacy and ease.

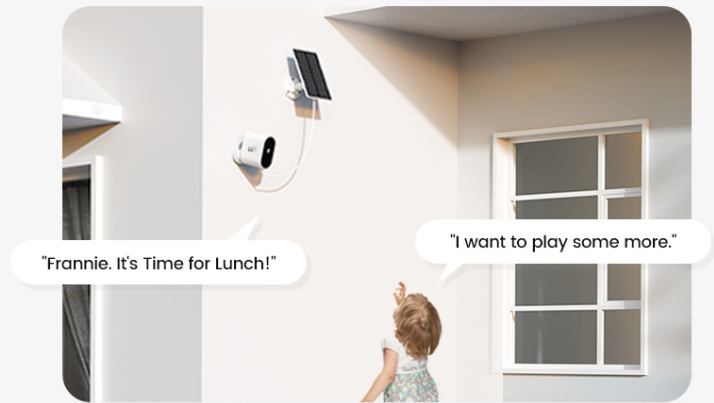


Image: An indoor scene with a security camera mounted on a wall, showing speech bubbles between an adult inside and a child outside, illustrating the two-way audio communication feature.

6.11 Voice-Device Compatibility

Integrate your security system with Amazon Alexa and Google Home for convenient voice control and management of your cameras.

Voice-Device Compatible

Harmonize your home security with Alexa and Google Home. Effortlessly manage your safety with voice commands for a smarter, responsive living space.

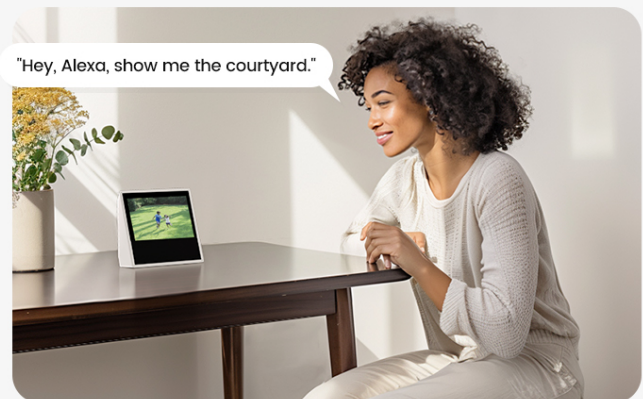


Image: A woman interacting with a smart display device, with a speech bubble showing "Hey, Alexa, show me the courtyard," illustrating the voice-device compatibility feature.

6.12 Family Sharing

Share access to your security system with family members, allowing multiple users to monitor and manage the cameras.

Together for Safety

Empower each family member with access to security system, uniting your household in safeguarding home.



Image: A smartphone showing a live camera feed of a child and a dog in a yard, with small circular icons representing other family members, illustrating the "Together for Safety" family sharing feature.

6.13 Dual-Band Wi-Fi Support

The Home Base supports both 2.4G and 5G Wi-Fi routers, offering flexibility and stable connections. Cameras pair easily with the Home Base upon power-on.

Support Dual-Band Router

Camera can be paired as soon as the homebase is turned on, without any complicated operations.



Image: A diagram illustrating a home base unit positioned in a house, emitting both 2.4G (long transmission distance) and 5G (fast data speed) Wi-Fi signals, signifying support for dual-band routers.

6.14 Outdoor Design

The cameras are built to withstand various outdoor elements, providing reliable monitoring in rain, sun, heat, or cold.

Design for Outdoor

Built to withstand the elements. Reliable monitoring in the rain or sun, heat or cold.



Image: An AOSU security camera mounted on an outdoor wall, with raindrops visible, illustrating its robust design for outdoor use in various weather conditions.

7. MAINTENANCE

- **Clean Lenses:** Regularly wipe the camera lenses with a soft, damp cloth to ensure clear image quality. Avoid abrasive cleaners.
- **Check Solar Panels:** Ensure solar panels are free from dirt, leaves, or snow to maintain optimal charging efficiency.
- **Firmware Updates:** Keep your camera and Home Base firmware updated through the AOSU Security app for improved performance and security features.
- **Battery Health:** While solar-powered, monitor battery levels in the app, especially during prolonged cloudy periods, to ensure continuous operation.
- **Wi-Fi Signal:** Periodically check the Wi-Fi signal strength in the app to ensure stable connectivity between cameras and the Home Base.

8. TROUBLESHOOTING

Camera not powering on:

Ensure the camera battery is charged. Connect it to the solar panel or a USB power adapter for charging.

Camera not connecting to Home Base:

- Ensure the Home Base is powered on and connected to your router, with its indicator light solid blue.
- Bring the camera closer to the Home Base during the pairing process.
- Reset both the camera and Home Base and attempt pairing again.
- Verify your router supports 2.4G or 5G Wi-Fi and is configured correctly.

Poor image quality:

- Clean the camera lens.
- Ensure there are no obstructions in the camera's field of view.
- Check the camera's position relative to light sources that might cause glare.

Solar panel not charging:

- Ensure the solar panel is receiving direct sunlight for several hours daily.

- Clean the surface of the solar panel from any dirt or debris.
- Verify the cable connection between the solar panel and the camera is secure.

Frequent false alerts:

- Adjust the motion detection sensitivity in the app.
- Configure activity zones to exclude areas with irrelevant motion (e.g., public roads, swaying trees).
- Ensure the camera is not pointing directly at reflective surfaces or areas with constant movement.

No notifications:

- Check your smartphone's notification settings for the AOSU Security app.
- Ensure the camera's motion detection is enabled in the app.
- Verify your phone has an active internet connection.

9. SPECIFICATIONS

Feature	Detail
Video Resolution	5MP UHD (2560x1920)
Field of View	166° Ultra-Wide-Angle
Night Vision	Color Night Vision with Spotlight
Power Source	Rechargeable Battery (built-in), Solar Panel
Storage	32GB eMMC Local Storage (up to 120 days)
Connectivity	Wi-Fi (2.4G & 5G supported by Home Base)
Audio	Two-Way Audio
Detection	AI Human Detection, Motion Sensor
Siren	120dB Integrated Siren
Weather Resistance	Designed for Outdoor Use
Home Base Wi-Fi Coverage	Approx. 5200 sq ft (484 m ²)

10. WARRANTY AND SUPPORT

AOSU products come with a standard manufacturer's warranty. For detailed warranty information, please refer to the warranty card included in your package or visit the official AOSU website. For technical support, troubleshooting assistance, or to report any issues, please contact AOSU customer service through the contact information provided on their website or within the AOSU Security app.

Online Resources:

- AOSU Official Website
- AOSU Amazon Store

