

## SOVMIKU 2CQ1X

# SOVMIKU Hephaestus 2X1 Active Defense Solar Security Camera Instruction Manual

Model: 2CQ1X

## 1. PRODUCT OVERVIEW

The SOVMIKU Hephaestus 2X1 is a wireless outdoor solar security camera designed for active defense and comprehensive surveillance. It features PIR motion detection, starlight color night vision, two-way audio, and an audible flashlight siren. The camera operates on 2.4G Wi-Fi and includes an SD card slot for local storage. Its design incorporates a warning color to deter potential intruders, aiming to prevent incidents rather than just record them.



Image 1.1: SOVMIKU Hephaestus 2X1 Solar Security Camera. This image displays the main unit of the camera, highlighting its orange casing and dual antennas, with a solar panel attached above it, suggesting its outdoor, solar-powered nature.

## 2. WHAT'S IN THE BOX

Verify that all components are present in the package:

- Camera Body
- Solar panel
- Camera bracket
- Solar panel bracket
- Type-C cable
- User manual
- Screw bag (2)



H.265+  
HEVC

### H.265 Cameras vs H.264 Cameras in Bandwidth Consumption

H.265+ IP cameras possess a higher H.265+ compression ratio compared with H.264 security cameras. In the same level of video quality, H.265+ cameras can reduce about 50% network bandwidth consumption in transmission and increase streaming speed.



H.264  
AVC

### H.265+ Cameras vs H.264 Cameras in Storage Usage

As the bitrate is proportional to the required storage usage, H.265+ IP cameras with lower bitrate can compress the videos in almost half the file sizes in comparison to H.264+ cameras while retaining the original video quality.

Image 2.1: Package Contents. This image shows all the items included in the SOVMIKU Hephaestus 2X1 camera package, laid out neatly on a white background, including the camera, solar panel, cables, and mounting hardware.

## 3. SETUP INSTRUCTIONS

### 3.1. Physical Installation

The camera and solar panel can be mounted separately to optimize solar exposure and camera placement. Use the provided mounting hardware for secure installation.

1. **Mount the Camera:** Secure the camera bracket to your desired location using the provided screws. Attach the camera body to the bracket.
2. **Mount the Solar Panel:** Secure the solar panel bracket in an area that receives maximum sunlight. Attach the solar panel to its bracket.
3. **Connect Power:** Connect the solar panel's Type-C cable to the camera's charging port. Ensure the rubber and dustproof lining is properly seated for weather protection.

Your browser does not support the video tag.

Video 3.1: Camera Installation Guide. This video demonstrates the process of physically installing the SOVMIKU security camera and its solar panel, showing how to mount them to a fence post and connect the power cable.

### 3.2. App Installation and Pairing

The camera is controlled via the Vicohome App. Follow these steps for initial setup:

1. **Download App:** Install the "Vicohome" App from Google Play Store or Apple App Store.
2. **Register and Sign In:** Create a Vicohome account using your email or mobile number, then sign in.
3. **Add Camera:** In the app, select the "add camera now" button. Enter your 2.4G Wi-Fi network name and password. A QR code will appear on your phone screen.
4. **Scan QR Code:** Press the power button on the camera for 3 seconds. Use the camera to scan the QR code displayed on your phone.



Image 3.2: App Setup Steps. This image illustrates the three main steps for setting up the camera with the Vicohome app, including app interaction and physical camera setup.

## 4. OPERATING INSTRUCTIONS

### 4.1. Remote Viewing and Control

Access live view of your home from anywhere using the Vicohome App. The camera supports pan (355°) and tilt (90°) functionality, allowing you to adjust the viewing angle remotely. You can also set up to 5 frequently used positions for quick access.

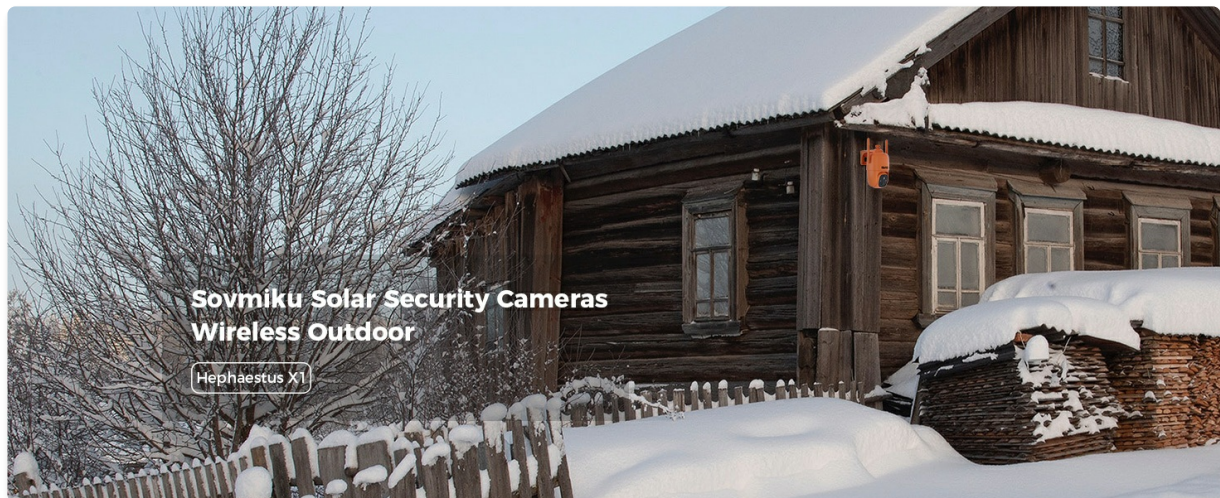


Image 4.1: 360° View Camera. This image shows the camera's wide viewing capabilities (Pan 355°, Tilt 90°) and how it can be controlled via the mobile app, displaying a live feed of a backyard with children playing.

### 4.2. Motion Detection and Alerts

The Passive Infrared (PIR) sensor is always active. When a warm body (human or animal) passes by, it triggers the PIR sensor, activating the camera within milliseconds. If enabled, the camera will also activate a spotlight at night. You can customize motion detection sensitivity and set specific activity zones within the app (requires cloud storage subscription for some features).



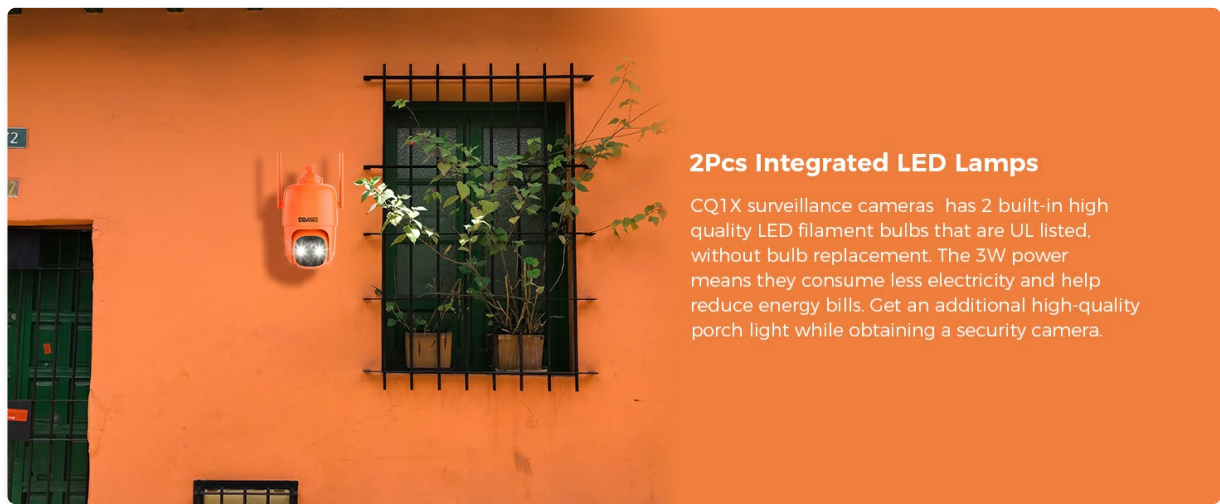


Image 4.2: Motion Detection Alert. This image depicts three scenarios: a person checking their phone, the camera's spotlight activating, and a person with a flashlight, illustrating the camera's motion detection and alert capabilities.

### 4.3. Audible and Flashlight Alarms

For active deterrence, the camera can be configured to automatically flash its spotlight and sound an audible siren when motion is detected. This feature can be enabled or disabled via the app.

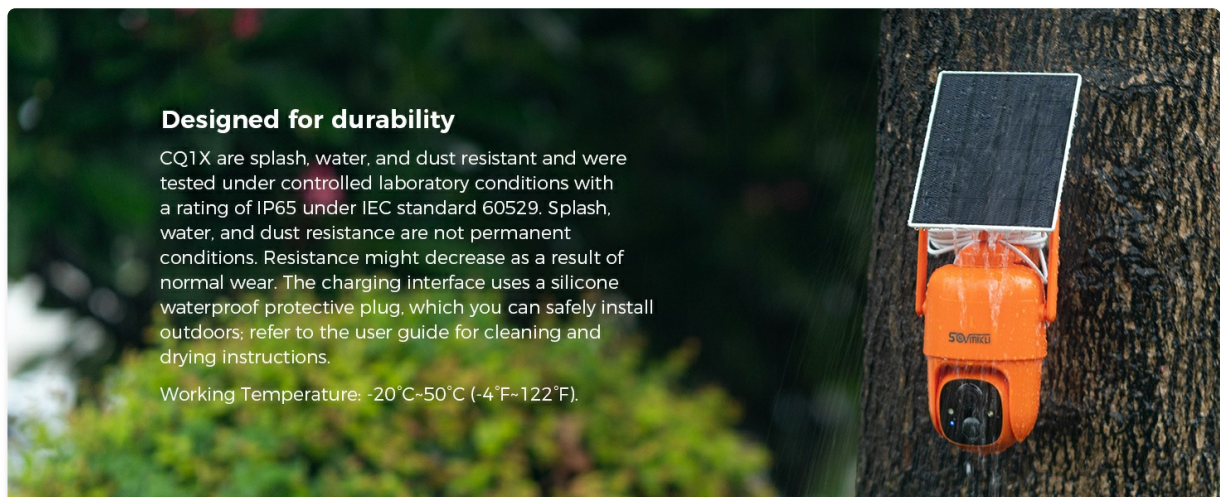


Image 4.3: Flashlight and Audible Alarm. This image shows a person approaching a house at night, with the camera's spotlight illuminating them and an alarm icon, demonstrating the flashlight and audible alarm features.

### 4.4. Night Vision Modes

The camera offers two night vision modes:

- **Color Night Vision:** Utilizes the integrated white light to illuminate the environment, providing full-color images in low-light conditions.
- **Infrared Night Vision:** Produces clear black and white images using infrared light in complete darkness.



Image 4.4: Night Vision Modes. This image compares the visual output of color night vision (top) and infrared night vision (bottom) from the camera, showing a house at night in both modes.

#### 4.5. Two-Way Audio

The integrated microphone and speaker allow for two-way communication through the camera via the Vicohome App. This enables you to speak to visitors or deter unwanted individuals.

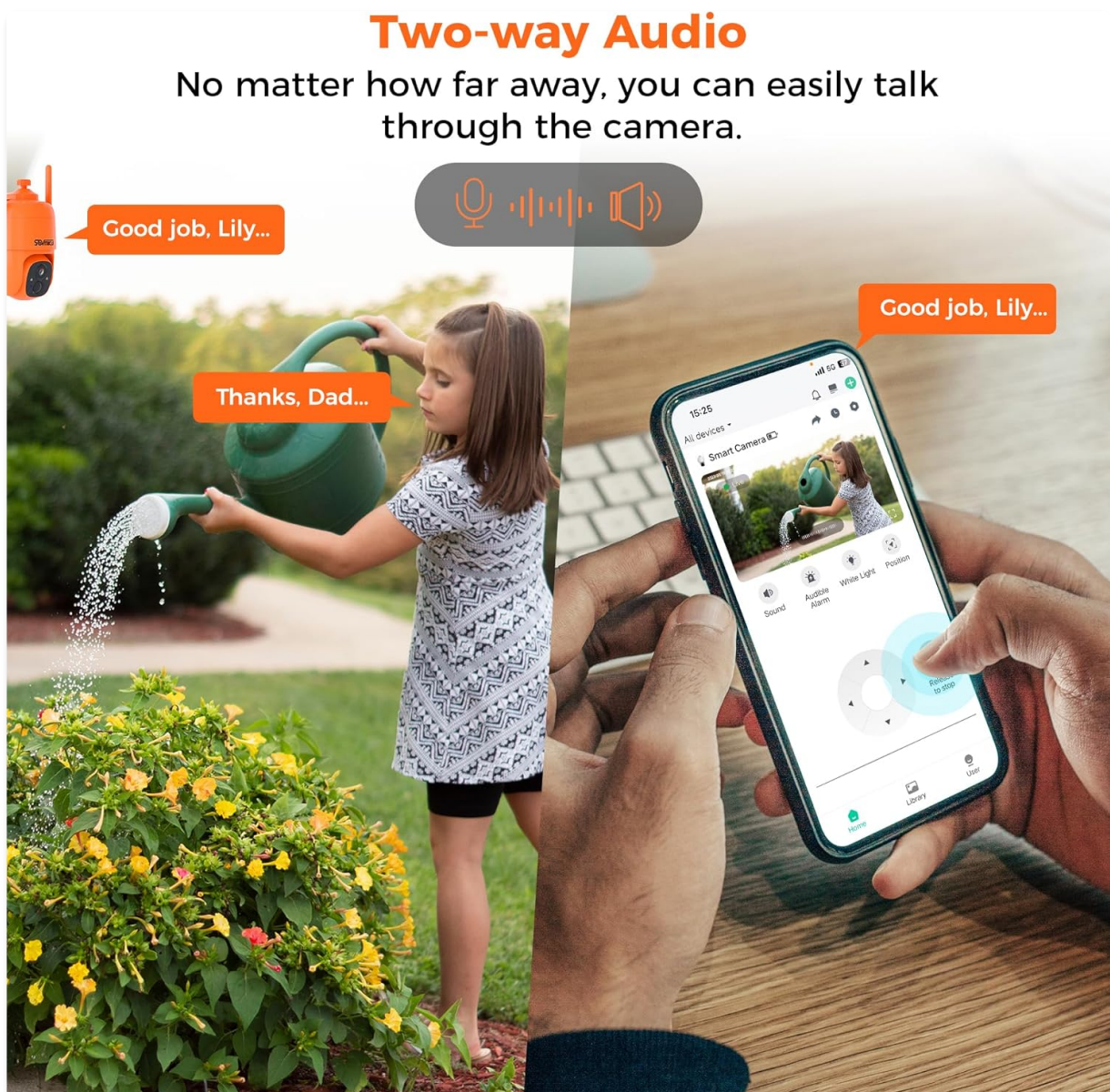


Image 4.5: Two-Way Audio. This image illustrates the two-way audio function, showing a person speaking through the camera to a child in the yard, and another person viewing the live feed on a smartphone.



## 4.6. Storage Options

The camera supports local storage via a Micro SD card (up to 128GB, not included) and offers cloud storage options through the Vicohome App.

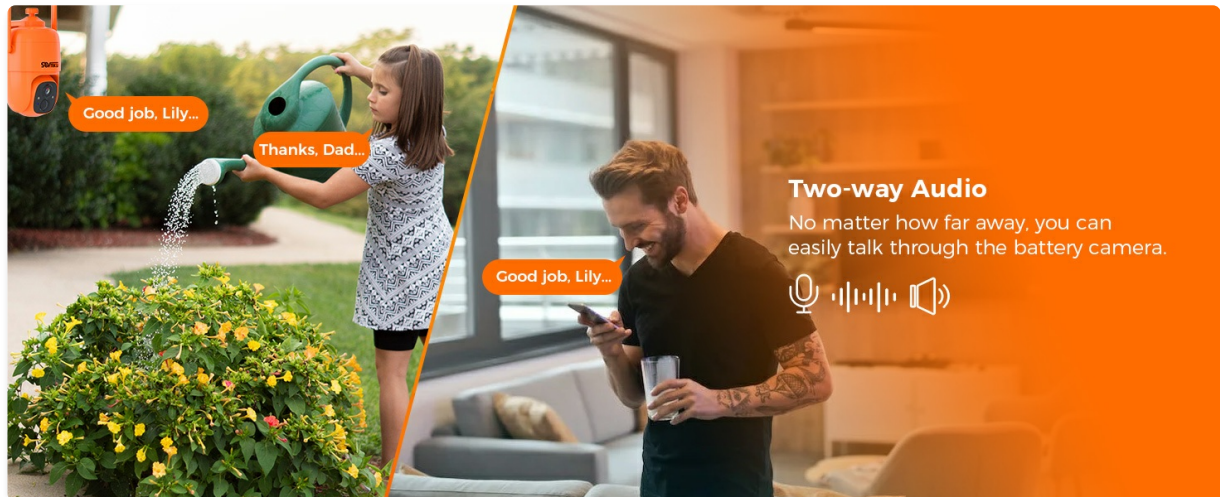


Image 4.6: Micro SD Card Slot. This close-up image shows the camera's Micro SD card slot, indicating its support for local storage up to 128GB.

## 4.7. Multi-Device and Multi-User Support

One Vicohome App account can manage up to 50 cameras simultaneously. The camera can also be shared with up to 10 different users, with customizable permissions, allowing three accounts to view the camera concurrently.

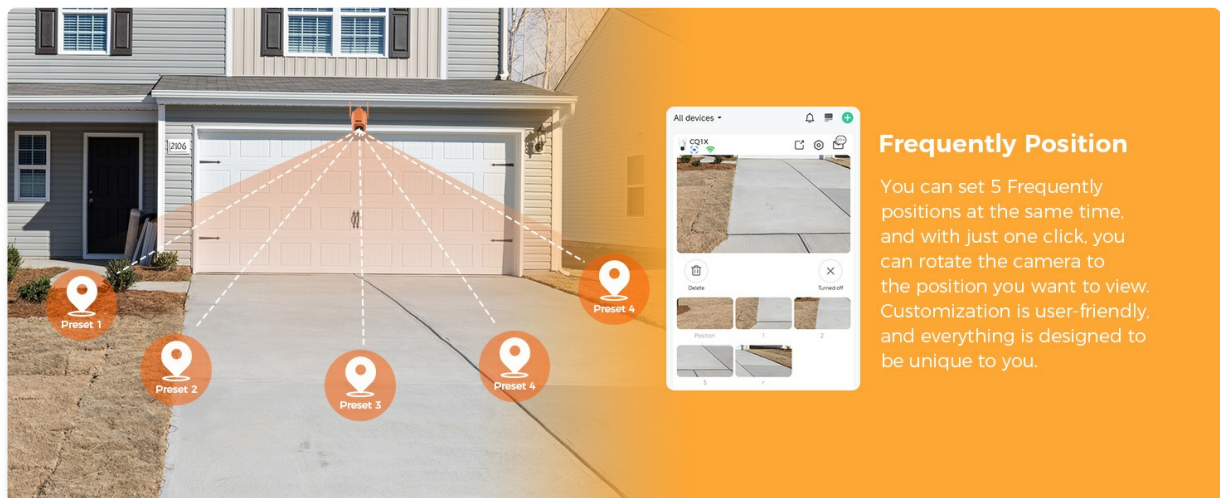


Image 4.7: Multi-Device and Multi-User Support. This image displays a world map with various users interacting with the camera via the Vicohome app, highlighting its global remote viewing and sharing capabilities.

# 5. MAINTENANCE

## 5.1. Durability and Weather Resistance

The CQ1X camera is splash, water, and dust resistant, tested under controlled laboratory conditions with an IP66 rating under IEC standard 60529. Resistance is not permanent and may decrease as a result of normal wear. The charging interface uses a silicone waterproof protective plug for outdoor safety.

## Designed for durability

CQ1X are splash, water, and dust resistant and were tested under controlled laboratory conditions with a rating of IP65 under IEC standard 60529. Splashwater, and dust resistance are not permanent conditions. Resistance might decrease as a result of normal wear. The charging interface uses a silicone waterproof protective plug, which you can safely install outdoors: refer to the user guide for cleaning and drying instructions.

Working Temperature: -20°C~50°C (4°F~122°F)



Image 5.1: Designed for Durability. This image shows the SOVMIKU camera mounted on a tree trunk while it is raining, emphasizing its IP66 water and dust resistance.

### 5.2. Battery and Solar Panel Care

The camera features monocrystalline silicon solar panels with an energy conversion rate of up to 23% and built-in high-capacity 9000mAh batteries. A full charge can power the camera for 60 days or more, and high-quality batteries are designed for over 8 years of use. Ensure the solar panel is positioned to receive maximum sunlight for optimal charging. Refer to the user guide for specific cleaning and drying instructions for the solar panel.





The image features an orange SO/MIKU camera with two antennas, set against a dark, starry background with a red nebula. Above the camera is an orange battery icon with five bars. To the right of the camera, there are three text blocks in orange and white, highlighting battery capacity, operation time, and lifespan. A disclaimer at the bottom right states that battery claims depend on various factors.

**2 batteries,  
2 months.**

**Up to 5000mAh**  
Built-in two high-capacity 21700 batteries.

**Up to 60 days**  
A complete charge can make the camera work for two months.

**More than 8 years**  
High quality battery and less charging times enable the camera to be used for more than 8 years.

\*All battery claims depend on the network, Number of triggered mobile detection, location, signal strength, feature configuration, usage, and many other factors; actual results will vary.

Image 5.2: Battery and Solar Panel. This image highlights the camera's battery capacity (up to 9000mAh), extended operation time (up to 60 days), and long battery lifespan (more than 8 years), powered by a solar panel.

## 6. TROUBLESHOOTING

- **Connectivity Issues:** Ensure your Wi-Fi router is within range and broadcasting a 2.4Ghz signal. Check the camera's Wi-Fi strength in the app. If the camera disconnects frequently, try moving the router closer or using a Wi-Fi extender.
- **Motion Detection Not Triggering:** Adjust the motion detection sensitivity settings in the app. Ensure there are no obstructions in the camera's field of view.
- **False Alarms:** Reduce motion detection sensitivity or define specific activity zones to minimize triggers from irrelevant movements (e.g., passing cars, swaying branches).
- **Poor Night Vision:** Ensure the camera lens is clean. Check if the white light or infrared LEDs are obstructed. Verify that the correct night vision mode is selected in the app.
- **Battery Not Charging:** Ensure the solar panel is clean and positioned to receive direct sunlight for several hours daily. Check the connection between the solar panel and the camera.

## 7. SPECIFICATIONS

Feature	Specification
Model Name	CQ1X
Indoor/Outdoor Usage	Outdoor
Power Source	Solar Powered
Connectivity Technology	Wireless (2.4G Wi-Fi Only)
Video Capture Resolution	3 MP
Night Vision Range	32 Feet
Field Of View	130 Degrees
Special Feature	2-Way Audio, Motion Detection, Audible & Flashlight Alarm, Color Night Vision
International Protection Rating	IP66
Battery Capacity	9000mAh (Built-in)
Storage	Micro SD Card (up to 128GB), Cloud Storage
Operating Temperature	-20°C to 50°C (4°F to 122°F)

## 8. WARRANTY AND SUPPORT

For any questions, technical assistance, or support regarding your SOVMIKU Hephaestus 2X1 camera, please contact customer service. SOVMIKU is committed to providing excellent customer support.

**Contact Email:** [Sovmiku@163.com](mailto:Sovmiku@163.com)

Your browser does not support the video tag.

Video 8.1: Customer Service Experience. This video features a customer discussing their positive experience with SOVMIKU's customer service, highlighting the company's commitment to assisting users.