

## SOVMIKU CQ1

# Sovmiku CQ1 AI 2K Solar Security Camera User Manual

Model: CQ1

## 1. INTRODUCTION

Thank you for choosing the Sovmiku CQ1 AI 2K Solar Security Camera. This manual provides essential information for the proper installation, operation, and maintenance of your new security camera. Please read this manual thoroughly before using the product and retain it for future reference.

## 2. PACKAGE CONTENTS

Please verify that all items listed below are included in your package. If any items are missing or damaged, please contact customer support.

- Camera Body
- Solar Panel
- USB Cable
- Mount
- Center Locking Screw
- User Manual
- Screws (for mounting)



Image: Contents of the Sovmiku CQ1 camera package, including the camera body, solar panel, USB cable, mount, screw, user manual, and screws.

### 3. PRODUCT OVERVIEW

#### Key Features

- **Solar Powered:** Monocrystalline silicon solar panels with up to 23% energy conversion rate, built-in 9000mAh batteries for extended operation (up to 60 days on a full charge).
- **PIR Motion Detection & Real-time Alert:** Upgraded AI algorithm and PIR sensor for enhanced human-like recognition, reducing false alarms. Real-time alerts sent to your device.
- **Remote Viewing:** Access live view and two-way audio from anywhere via the Vicohome App.
- **2K Ultra-High-Definition Camera:** Equipped with High tolerance CMOS and PIR Sensor for 2K images and videos. Advanced quad-pixel sensor for 3MP resolution, offering 4x detail for cropping.
- **360° View:** Pan 355° and Tilt 90° for comprehensive coverage.
- **Color Night Vision:** Provides clear color images even in low-light conditions, with a night vision range of 45 feet.
- **Audible & Flashlight Siren:** Deter intruders with an automatic flashlight flash and audible alarm upon motion detection.
- **SD Card Slot:** Supports up to 128GB for local storage (SD card not included).

#### Components

The Sovmiku CQ1 camera consists of the main camera unit and a detachable solar panel. The camera features a lens, infrared LEDs for night vision, a PIR sensor, and a speaker/microphone for two-way audio. The solar panel connects to the camera to provide continuous power.

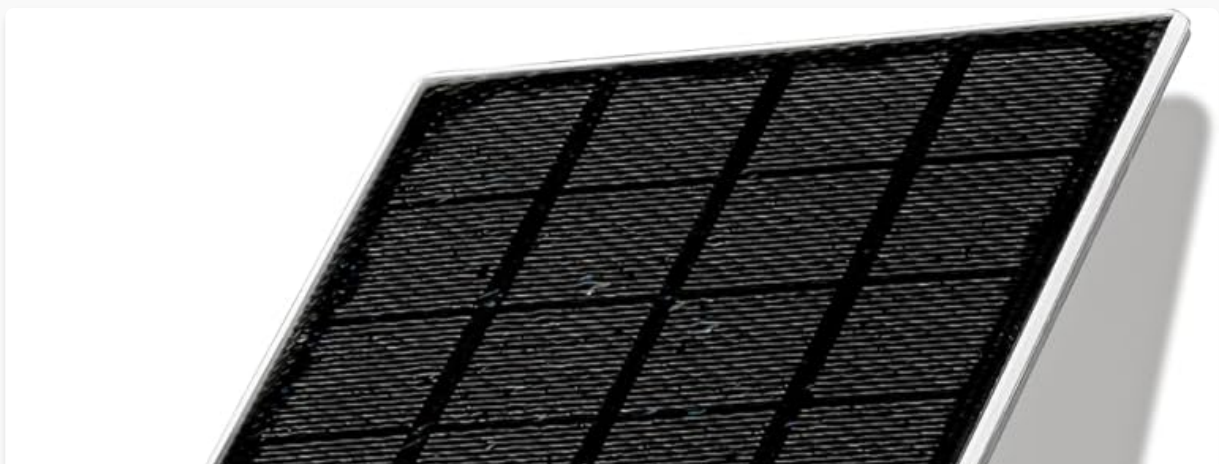




Image: Front view of the Sovmiku CQ1 solar security camera, showing the camera body with its lens and sensors, and the attached solar panel.



Image: A close-up view of the Sovmiku CQ1 camera, highlighting the lens, infrared lights, and PIR sensor for motion detection.



#### Always-On detection.

A subtle way to stay in the know.

#### Passive Infrared Sensor

With CQ1 camera, the Passive Infrared Sensor is always on. When a warm body like a human or animal passes by, it will first trigger the PIR sensor, and then the PIR will activate the camera in a period of more than 10 milliseconds. If it is at night, it will also activate spotlight.

Image: The Sovmiku CQ1 camera with its solar panel, shown being splashed with water, illustrating its IP65 splash, water, and dust resistance.

## 4. SETUP GUIDE

### 4.1 App Installation and Camera Pairing

Follow these steps to set up your Sovmiku CQ1 camera and connect it to the Vicohome App:

1. **Install Vicohome App:** Download the "Vicohome" App from Google Play Store (for Android) or Apple App Store (for iOS).
2. **Register and Sign In:** Open the Vicohome App, register a new account using your email or mobile number, and then sign in.
3. **Add Camera:** In the app, select the "add camera now" button. Enter your Wi-Fi network name (SSID) and password. A QR code will then appear on your phone screen.
4. **Scan QR Code:** Press the power button on the camera for 3 seconds to turn it on. Position the camera to scan the QR code displayed on your phone screen. The camera will confirm successful

pairing.

*Note: The Vicohome App does not support PC. The camera supports 2.4GHz Wi-Fi (IEEE 802.11 b/g/n) only.*

## 4.2 Physical Installation

Choose a suitable location for your camera, ensuring good Wi-Fi signal and optimal solar panel exposure. Follow these general steps for mounting:

1. **Install the Camera Mount:** Secure the camera mount to your desired surface (e.g., wall, tree) using the provided screws.
2. **Attach Camera to Mount:** Connect the camera body to the installed mount.
3. **Secure with Center Locking Screw:** Use the center locking screw to firmly attach the camera to the mount.
4. **Install the Solar Panel Mount:** Attach the solar panel mount to a surface where it can receive maximum sunlight.
5. **Lock the Solar Panel:** Secure the solar panel to its mount. Ensure the cable from the solar panel is connected to the camera's charging port.

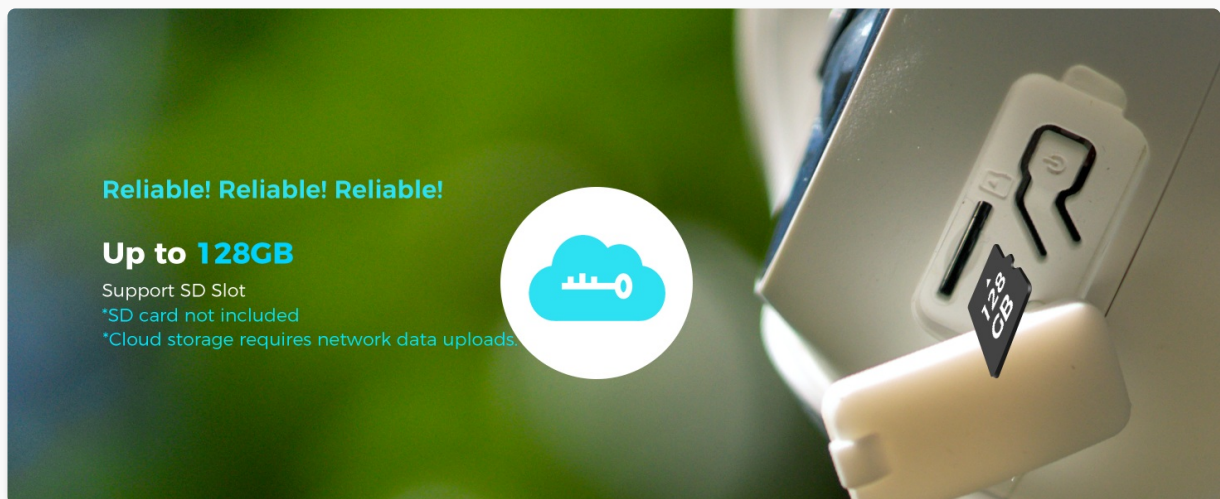


Image: Four-step visual guide for installing the Sovmiku CQ1 camera, showing how to install the camera mount, attach the camera, secure it with a locking screw, and then install and lock the solar panel.

## 5. OPERATING INSTRUCTIONS

### 5.1 Remote Viewing and Control

Once connected to the internet, you can access your camera's live feed from anywhere in the world via the Vicohome App. The app allows you to pan 355° and tilt 90° to adjust the camera's view, providing a 360° field of view.



Image: A visual representation of the camera's 360-degree pan and 90-degree tilt capabilities, along with a screenshot of the Vicohome app interface for controlling the camera.

## 5.2 Two-Way Audio

The camera features a built-in microphone and speaker, enabling two-way communication through the Vicohome App. You can speak to visitors or deter unwanted guests directly from your smartphone.



Image: Illustration of the two-way audio feature, showing a person speaking into a phone and a child responding, with the camera in the background.

## 5.3 Motion Detection and Alarms

The camera utilizes an advanced AI algorithm and PIR sensor for accurate motion detection, distinguishing between humans, vehicles, and pets to minimize false alarms. When motion is detected, you will receive real-time alerts on your phone.

- **Flashlight Alarm:** If enabled, the device will automatically flash its built-in light when motion is triggered.
- **Audible Alarm:** If enabled, the camera will automatically sound an alert when motion is triggered.
- **Activity Zones:** You can define specific activity zones within the app to receive notifications only for movement detected in those areas. This feature may require a cloud storage subscription.

**Premium Cloud Intelligence**

From \$4.49/month for cloud analytics & 60 days cycle recording cloud storage.

After the camera captures the footage, upload the image to the AI server through the network, and uses the powerful computing power of the AI server to analyze the vehicles, pets, persons, package and activity zone in the image, so as to push advanced alarm notifications.

**\$4.49/month/cam \$9.99/month/all cams**

Image: Depiction of the flashlight and audible alarm features, showing a camera illuminating an area and a person in the dark, with text explaining the alarm functions.

**Make it non-stop standby**

**Solar Powered Security Camera**

**Up to 23%**

Monocrystalline silicon solar panels with an energy conversion rate of up to 23%

**9.8Ft Cable**

Allows you to install solar panels where receive the most sunlight

**The Energy source behind it all.**

**Carbon Neutral**  
Sovmiku's mission

Image: A child running past a camera, with an inset showing an Apple Watch displaying a motion detection notification, illustrating the real-time alert feature.

**Flashlight Alarm**

If the Alarm Flash feature is on, device will automatically flash when the motion sensor is triggered.

**Audible Alarm**

After Alarm Siren is turned on, the camera will automatically sound an alert when the motion sensor is triggered.

Image: An overhead view of a house with colored overlays indicating customizable activity zones for motion detection, and a phone screen showing the activity zone settings in the app.

**5.4 Night Vision**

The CQ1 camera offers both infrared (IR) night vision and color night vision. In low-light conditions, the camera can automatically switch to night vision mode, providing clear surveillance up to 45 feet. Color night vision is activated when sufficient ambient light or the camera's spotlight is available.



Image: A night scene with the Sovmiku CQ1 camera illuminating an area with its spotlight, demonstrating its color night vision capability during an outdoor gathering.

## 5.5 Video Encoding (H.265+)

The camera utilizes H.265+ efficient encoding technology, which offers several advantages over older H.264 encoding:

- **Double Storage:** The same memory capacity can store twice as many recordings.
- **Double Bandwidth Efficiency:** Twice the amount of video can be transmitted with the same bandwidth.
- **Half Power Consumption:** The device consumes half as much power compared to H.264.

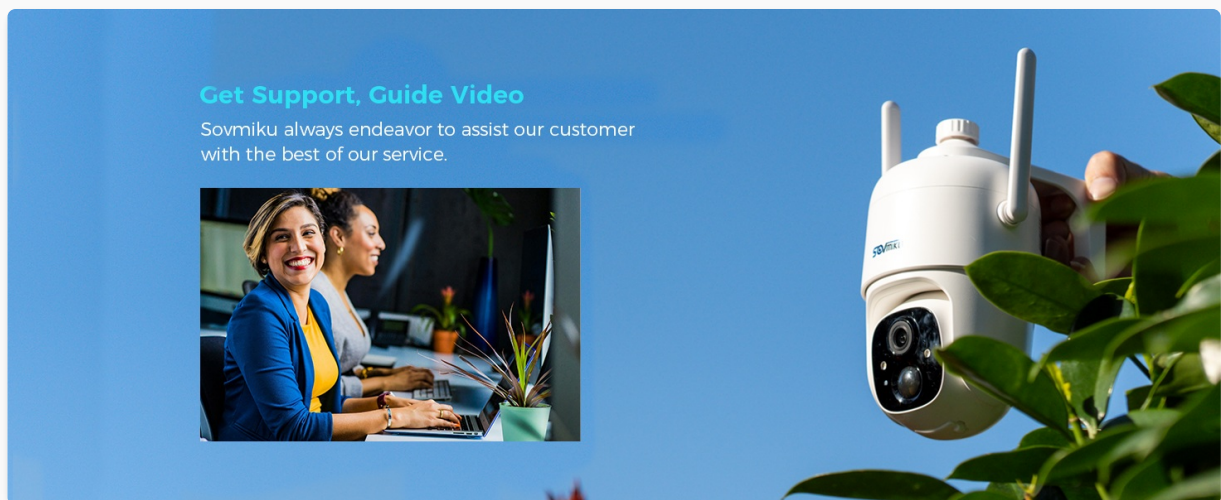


Image: A visual comparison illustrating the benefits of H.265+ encoding over H.264, highlighting improved storage, bandwidth, and power efficiency.

## 6. SOLAR PANEL USAGE AND PLACEMENT

The solar panel is designed to provide continuous power to your camera, minimizing the need for manual recharging. For optimal performance, consider the following:

- **Energy Conversion:** The monocrystalline silicon solar panels have an energy conversion rate of up to 23%.
- **Battery Life:** The built-in 9000mAh batteries can power the camera for up to 60 days on a complete charge. High-quality batteries are designed for over 8 years of use with less frequent charging.
- **Cable Length:** The 9.8ft cable allows flexible placement of the solar panel to receive maximum

sunlight.

## 6.1 Tips for Solar Panels

- The solar panel converts light energy into electricity. If your local temperature is below 0°C (32°F), the solar panel may not be able to provide power.
- Wipe the solar panels regularly according to local air quality to ensure optimal performance.
- Turn on the auto-turn on function in the app to ensure the camera continues to work as long as it has power.

Optimal Charging Temperature: 0°C - 45°C (14°F - 113°F).



Image: A solar panel being rained on, with text providing tips for solar panel usage, including temperature considerations and cleaning advice.

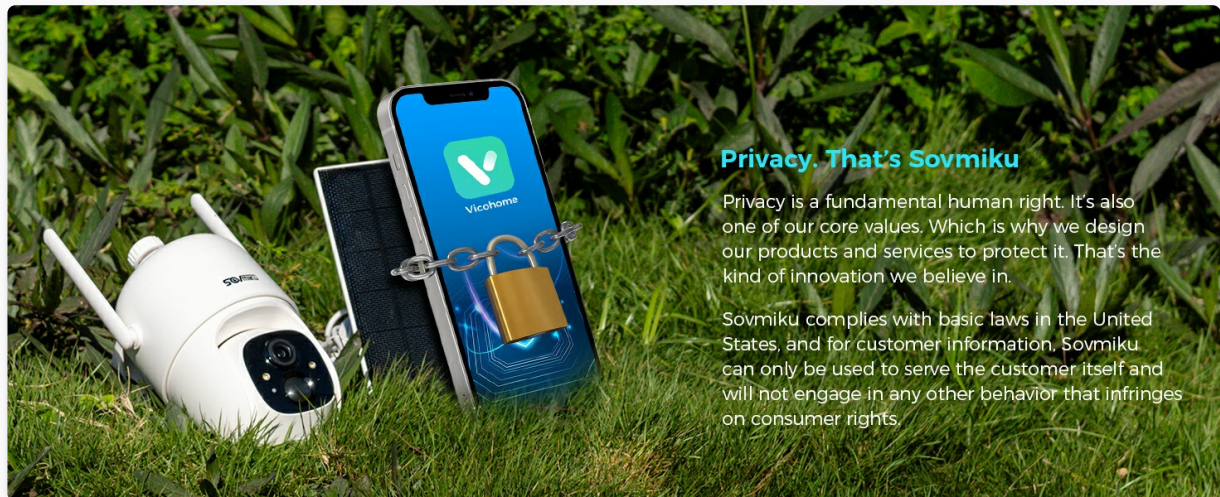


Image: A guide illustrating correct and incorrect placements for the solar panel to ensure optimal sunlight exposure, showing various mounting scenarios.

## 7. STORAGE OPTIONS

The Sovmiku CQ1 camera offers flexible storage solutions for your recordings:

### 7.1 SD Card Storage

The camera supports local storage via an SD card, up to 128GB. This allows you to store recordings directly on the device without needing a subscription. (SD card not included).

## 7.2 Cloud Storage

For enhanced features like AI analytics (person, vehicle, pet, package detection) and extended recording history, cloud storage is available via subscription. Cloud storage requires network data uploads.



Image: A close-up view of the camera's SD card slot, indicating support for up to 128GB of local storage.



Image: A cloud icon with a key, representing the secure cloud storage option for the camera.

## 8. MAINTENANCE

To ensure the longevity and optimal performance of your Sovmiku CQ1 camera, regular maintenance is recommended:

- **Cleaning:** Periodically clean the camera lens and solar panel with a soft, damp cloth to remove dust, dirt, or debris that may obstruct the view or reduce charging efficiency. Avoid abrasive cleaners.
- **Battery Care:** While the camera is solar-powered, ensure the solar panel receives adequate sunlight. If the camera is installed in a shaded area or during prolonged periods of low sunlight, occasional manual charging via the USB port may be necessary to maintain battery health.
- **Firmware Updates:** Check the Vicohome App regularly for any available firmware updates for your camera. Keeping the firmware updated ensures you have the latest features and security enhancements.

## 9. TROUBLESHOOTING

If you encounter issues with your Sovmiku CQ1 camera, please refer to the following common troubleshooting tips:

- **Camera Offline:**
  - Check your Wi-Fi connection and ensure the camera is within range of your 2.4GHz Wi-Fi network.
  - Verify the camera's battery level.

- Restart the camera by pressing the power button for 3 seconds.
- **No Motion Detection:**
  - Ensure motion detection is enabled in the Vicohome App settings.
  - Check the sensitivity settings; increase if necessary.
  - Verify that the PIR sensor is not obstructed or dirty.
- **Frequent False Alarms:**
  - Decrease the motion detection sensitivity in the app.
  - Set up Activity Zones to monitor only specific areas.
  - Ensure the camera is not pointing at moving objects like tree branches or busy roads if not desired.
- **Poor Video Quality:**
  - Check your Wi-Fi signal strength. A weak signal can affect video streaming quality.
  - Clean the camera lens.
- **Solar Panel Not Charging:**
  - Ensure the solar panel is positioned to receive direct sunlight for several hours a day.
  - Clean the surface of the solar panel.
  - Verify the connection cable between the solar panel and the camera is secure.

For more detailed troubleshooting or persistent issues, please refer to the FAQ section within the Vicohome App or contact Sovmiku customer support.

Video: A demonstration of the Sovmiku CQ1 camera monitoring vehicles on a roadway, showcasing its motion detection capabilities.

Video: A short clip demonstrating the wire-free operation of the solar-powered camera, highlighting its ease of placement without power cables.

Video: A view of the Sovmiku CQ1 camera monitoring a backyard, showing its field of view and surveillance capabilities in an outdoor setting.

## 10. SPECIFICATIONS

Feature	Specification
Model Name	CQ1
Indoor/Outdoor Usage	Outdoor
Video Capture Resolution	2K
Effective Still Resolution	3.00 MP
Power Source	Solar Powered
Battery Capacity	9000mAh (Built-in)
Connectivity Protocol	Wi-Fi (2.4GHz)

Feature	Specification
Controller Type	Vicohome App
Mounting Type	Wall Mount
Viewing Angle	118 Degrees (Lens), 360 Degrees (Field of View with Pan/Tilt)
Night Vision Range	45 Feet
Material	Plastic
Item Dimensions (L x W x H)	7 x 5 x 7 inches
Item Weight	2 Pounds
International Protection Rating	IP66

## 11. CERTIFICATIONS

The Sovmiku CQ1 camera complies with various international standards and certifications, ensuring product quality and safety:

- **CE:** Conformité Européenne (CE) Mark
- **FCC:** Federal Communications Commission
- **RoHS:** Restriction of Hazardous Substances Directive
- **WEEE:** Waste from Electrical and Electronic Equipment
- **MSDS:** Material Safety Data Sheet
- **UN 38.3:** Certification for Lithium Batteries

**Up to 9000mAh**  
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.

**2 batteries,  
2 months.**

\*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: Various certification logos (CE, FCC, RoHS, WEEE, MSDS, UN38.3) displayed alongside the Sovmiku CQ1 camera, indicating compliance with international standards.

## 12. SUPPORT

Sovmiku is committed to providing excellent customer service. If you require further assistance, have questions, or need technical support, please do not hesitate to contact us. You can find contact information and additional guide videos on the official Sovmiku website or through the Vicohome App.



Image: Two customer support representatives working at computers, symbolizing available support and guidance for the product.

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