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› CAMCAMP Solar Security Camera System User Manual

Camcamp SC43XA/Solar Camera System Wireless

CAMCAMP Solar Security Camera System User Manual

Model: SC43XA/Solar Camera System Wireless

Brand: Camcamp

1. INTRODUCTION

The CAMCAMP Solar Security Camera System provides a robust and flexible surveillance solution for both indoor and outdoor environments. This system features 100% wireless cameras powered by solar panels, a 10-inch NVR monitor with a built-in 500GB HDD for local storage, and advanced features like 4MP HD color night vision, two-way audio, and smart motion alerts. Designed for ease of use, the system is plug-and-play for local monitoring and offers remote access via a mobile application.



Figure 1: Overview of the CAMCAMP Solar Security Camera System components.

2. PACKAGE CONTENTS

Ensure all items are present and in good condition upon unboxing:

- 4x PTZ Wireless Solar Security Camera Outdoor
- 1x 10.1-inch 10CH NVR Monitor (Built-in 500 GB HDD)
- 4x 4W Solar Panel (with Screw Pack)
- 4x 3M Type-C USB Charge Cable for Solar Panel
- 1x DC12V 2A Charger for 10.1-inch NVR Screen

Video 1: Unboxing and package contents of the CAMCAMP Solar Security Camera System. This video demonstrates all items included in the kit, such as the cameras, solar panels, NVR monitor, and accessories.

3. SETUP

3.1 Initial System Setup

The system is designed for plug-and-play functionality for local monitoring. Cameras are pre-paired with the NVR monitor at the factory.

1. **Power On NVR Monitor:** Connect the 10.1-inch NVR monitor to a power outlet using the provided DC12V 2A charger.
2. **Connect Mouse:** Plug the included mouse into a USB port on the NVR monitor to navigate the interface.
3. **Turn On Cameras:** For each camera, open the protective cover and press the power button for 3-5 seconds until you hear a startup chime. The cameras will automatically connect to the NVR monitor within seconds.



Figure 2: The NVR monitor displaying live feeds from the cameras, illustrating the local plug-and-play setup without requiring an internet connection.

3.2 Camera and Solar Panel Installation

The cameras and solar panels are designed for flexible installation anywhere you need surveillance.

- **Camera Placement:** Choose locations that provide optimal viewing angles and coverage. The cameras support wall mounting.
- **Solar Panel Placement:** Mount the solar panels in areas that receive maximum direct sunlight throughout the day to ensure continuous charging of the camera batteries. Use the provided screw packs for secure installation. Connect the solar panel to the camera using the 3M Type-C USB charge cable.

Solar Powered + Built-in Rechargeable Battery

365 Day Non-Stop Power Supply



4W
Solar Panel



6000mh
Battery



Figure 3: A CAMCAMP camera connected to its solar panel, highlighting the 100% wireless and solar-powered design for 365-day continuous operation.

3.3 App Remote Access Setup (Optional)

For remote viewing and control via your smartphone or tablet, the NVR monitor must be connected to your home router.

1. **Connect NVR to Router:** Use an Ethernet cable to connect the NVR monitor to your home internet router.
2. **Download CloudEye 365 App:** Scan the QR code displayed on the NVR monitor or search for "CloudEye 365" in your device's app store (iOS/Android).
3. **Add Device:** Follow the in-app instructions to add your NVR system by scanning the QR code on the

NVR or manually entering the device ID.

4. OPERATION

4.1 Live View and Display Options

View live feeds directly on the 10.1-inch NVR monitor or connect to a larger display.

- **NVR Monitor:** The monitor displays live feeds from all connected cameras. You can switch between single-camera view and multi-camera quad view.
- **HDMI Output:** Connect the NVR monitor to a smart TV or PC via the HDMI port for viewing on a larger screen.
- **Camera Expansion:** The NVR monitor supports up to 10 channels, allowing you to add more cameras to expand your surveillance coverage.

Support HDMI External Display



Figure 4: The NVR monitor connected to a larger external display, demonstrating the HDMI output feature and the ability to expand to 10 camera channels.

4.2 PTZ Control and Zoom

Each camera features Pan, Tilt, and Zoom (PTZ) capabilities for comprehensive area coverage.

- **Pan/Tilt:** Control the camera's horizontal (340°) and vertical (90°) movement using the NVR interface or the mobile app.
- **Digital Zoom:** Utilize the 5X digital zoom feature to get closer views of specific areas.

Full Angle Coverage Pan/Tilt/Zoom Camera

Get all-round protection, no blind spot



Figure 5: A CAMCAMP camera illustrating its 340° pan and 90° tilt capabilities for full angle coverage without blind spots.

4.3 Recording Modes and Storage

The system primarily uses motion-triggered recording to conserve power and storage space.

- **Motion-Triggered Recording:** Cameras automatically record when motion is detected, capturing key moments. This system does not support 24/7 continuous recording.
- **Local Storage:** A 500GB HDD is pre-installed in the NVR monitor for local video storage, with no monthly fees.
- **Optional Storage:** Supports Micro SD card (up to 128GB) or cloud storage (optional, one storage method works at a time).

0 Monthly Fee (NVR Built-in 500GB HDD) No Extra Cost

Optional: Micro SD(Max. 128GB) ,or Cloud Storage
(Notice: Only one storage method is work at the same time)



Figure 6: The NVR monitor highlighting the built-in 500GB HDD for local storage and optional Micro SD or cloud storage solutions.

4.4 Alerts and Notifications

Stay informed with real-time alerts when activity is detected.

- **Smart PIR Motion Detection:** Reduces false positives by accurately detecting human movement.
- **Real-time Alerts:** Receive notifications on the NVR monitor, your phone app, and via email when motion is triggered.
- **Spotlight and Sound Alarm:** Cameras feature a spotlight and sound alarm that can be activated upon detection for deterrence.

PIR Motion Detection



Figure 7: A CAMCAMP camera demonstrating PIR motion detection, triggering an alert notification on a smartphone.

4.5 Two-Way Audio

Communicate directly with individuals within the camera's monitoring range.

- **Built-in Microphone and Speaker:** Enables high-fidelity two-way communication.
- **Remote Communication:** Use the mobile app to speak through the camera, for example, to greet visitors or deter intruders.

Two Way Audio



Figure 8: A CAMCAMP camera illustrating its two-way audio capability, allowing communication with individuals at the monitored location.

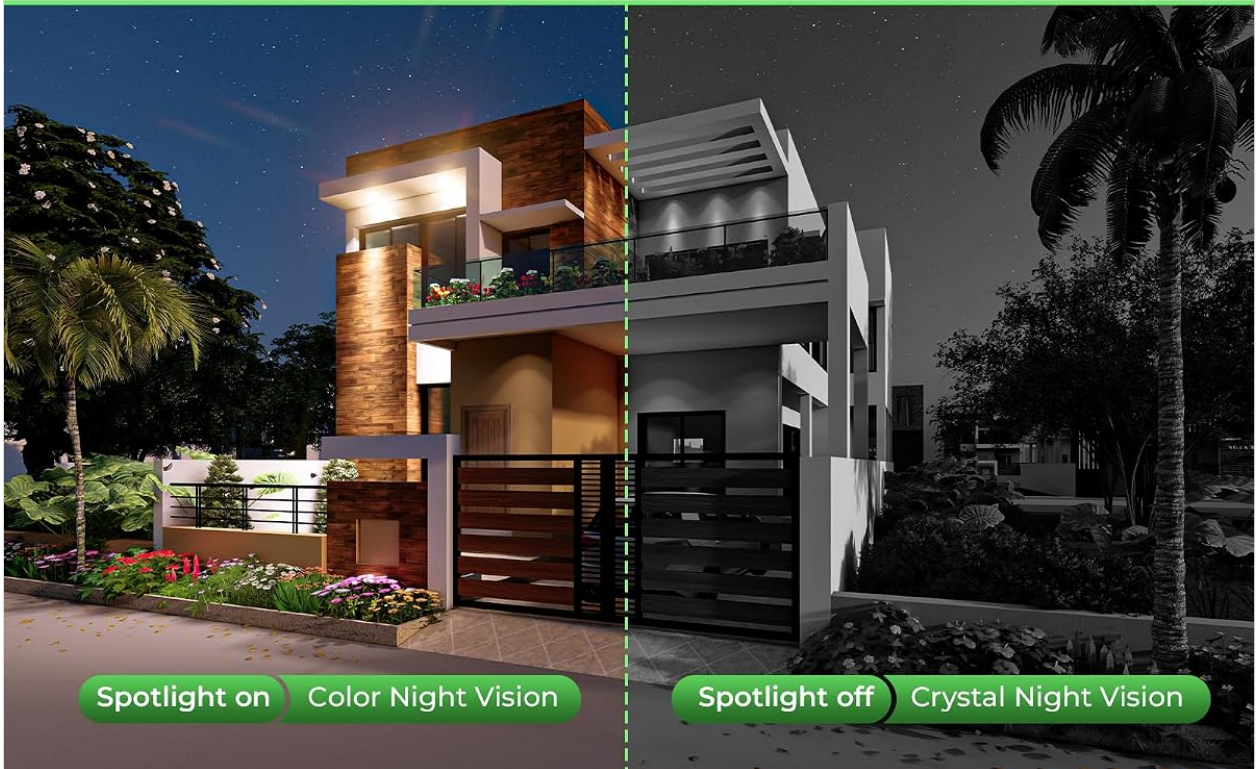
4.6 Night Vision

Experience clear surveillance even in complete darkness.

- **4 MP HD Color Night Vision:** Advanced CMOS sensor and spotlight deliver super clear full-color images at night.
- **Crystal Night Vision:** When the spotlight is off, the cameras provide clear infrared night vision.



☀️ 4MP/2.5K Ultra HD Day Night Vision



Spotlight on Color Night Vision

Spotlight off Crystal Night Vision

Figure 9: Comparison of day vision, color night vision (with spotlight), and crystal night vision (infrared) from the CAMCAMP cameras.

5. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your security system.

- **Clean Lenses:** Periodically wipe camera lenses with a soft, damp cloth to remove dust, dirt, or water spots that may obstruct vision.
- **Solar Panel Cleaning:** Ensure solar panels are free from debris, leaves, or snow to maximize sunlight

absorption and charging efficiency.

- **Check Mounts:** Verify that cameras and solar panels remain securely mounted, especially after strong winds or adverse weather conditions.
- **Software Updates:** Check for firmware updates for the NVR and cameras via the system settings or mobile app to ensure the latest features and security patches.

5.1 Weather Resistance

The cameras are designed to withstand various weather conditions.

- **IP66 Waterproof:** Cameras are rated IP66, allowing them to operate perfectly in temperatures from -13°F to 122°F (-10°C to 50°C), including rain, sun exposure, and extremely cold weather.

6. TROUBLESHOOTING

If you encounter issues with your CAMCAMP security system, refer to the following common solutions:

- **No Camera Feed on NVR:** Ensure cameras are powered on and within range of the NVR. Verify that the NVR monitor is powered on and correctly configured. Cameras are pre-paired, so they should connect automatically.
- **App Remote Access Not Working:** Confirm the NVR monitor is connected to your home router via Ethernet. Check your router's internet connection. Ensure the CloudEye 365 app is updated and the device is correctly added.
- **Short Battery Life:** Verify that solar panels are placed in direct sunlight for several hours daily. Clean any obstructions from the solar panel surface. Ensure the camera's recording mode is set to motion-triggered to conserve power.
- **False Motion Alerts:** Adjust the PIR motion detection sensitivity settings in the camera setup menu on the NVR or via the app. Define specific detection zones to exclude areas with frequent irrelevant movement.
- **Poor Image Quality:** Clean the camera lens. Ensure there are no obstructions in the camera's field of view. Check the camera's resolution settings on the NVR.
- **No Audio/Poor Audio:** Check the volume settings on the NVR monitor and your mobile device. Ensure there are no physical obstructions blocking the microphone or speaker on the camera.

7. SPECIFICATIONS

Feature	Specification
Indoor/Outdoor Usage	Outdoor, Indoor
Power Source	Solar Powered, Battery Powered
Connectivity Protocol	Wi-Fi, Ethernet
Controller Type	CloudEye 365 (iOS/Android), 10.1" 10CH NVR Monitor, Amazon Alexa

Mounting Type	Wall Mount
Video Capture Resolution	2.5K (4 MP Effective Still Resolution)
Number of Channels	10 (Expandable)
Viewing Angle	360 Degrees (PTZ: 340° Pan/90° Tilt)
Night Vision Range	65 Feet
Operating Temperature	-13°F to 122°F (-10°C to 50°C)
Water Resistance Level	IP66 Waterproof
Flash Memory Installed Size	500 GB (HDD, pre-installed)
Optical Zoom	5 x (Digital Zoom)
Alert Type	Audio and Motion
Item Weight	9.48 pounds
Product Dimensions	14 x 6 x 13 inches

8. WARRANTY AND SUPPORT

CAMCAMP offers a 12-month replacement period for this product. If you encounter any issues or require assistance, please contact CAMCAMP customer support for solutions within 48 hours.

For further support and resources, please visit the official Camcamp Store on Amazon:[Camcamp Store](#)