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GNCC GW5Pro-1N

GNCC 2K Solar Camera Outdoor Wireless User Manual

Model: GW5Pro-1N | Brand: GNCC

1. INTRODUCTION AND OVERVIEW

This manual provides detailed instructions for the installation, operation, and maintenance of your GNCC GW5Pro 2K Solar Camera Outdoor Wireless. Designed for robust outdoor surveillance, this camera combines solar power efficiency with advanced security features to provide reliable home monitoring.



Image 1.1: The GNCC GW5Pro 2K Solar Camera, showcasing its solar panel for continuous power and a smartphone interface displaying a live outdoor view.

The GW5Pro solar camera is easy to install outdoors and is powered by solar energy, allowing for year-round operation without frequent recharging. It supports both 5G and 2.4GHz WiFi, ensuring compatibility with most home routers. Experience sharp 2K HD video quality with color night vision, where built-in spotlights provide clear, color images even in low light conditions. With an IP65 waterproof rating, the camera is built to withstand various weather conditions. Its 5200mAh rechargeable battery ensures long-lasting use, with the option to recharge during extended cloudy periods. The integrated PIR sensor detects motion up to 8 meters away, and AI capabilities differentiate between people, cars, and pets, significantly reducing false alarms. Two-way audio enables real-time communication with visitors or family members. Setup is streamlined through the 'Osaio' app, and flexible storage options include cloud storage (subscription required) and local SD card storage (up to 128GB).

2. WHAT'S IN THE BOX

Please check the contents of your package to ensure all items are present:

- GNCC GW5Pro 2K Solar Camera Unit

- Solar Panel with integrated cable
- Wall Mounting Bracket
- Mounting Screws and Wall Anchors
- USB Charging Cable
- User Manual (this document)



Image 2.1: Components of the GNCC GW5Pro system, highlighting the camera, solar panel, and the SD card slot for local storage.

3. PRODUCT FEATURES

3.1 Solar Power & Battery

The GW5Pro is equipped with a 5200mAh rechargeable lithium battery and a 2W solar panel, providing continuous power and ensuring year-round operation. The camera is designed for safe charging in temperatures ranging from -20°C to 50°C.

Solar Panel Charging

Built-in 5200mAh Lithium Battery

2X
Solar Speed

10 ⚡ = **24** 🔋
Minutes Hours

2M
Solar Cable

2W

According to laboratory data, solar panel effectiveness is contingent on direct sunlight exposure, and battery life may vary based on actual usage.

Image 3.1.1: Illustration of the solar panel charging mechanism and the 5200mAh battery, indicating efficient power management.

3.2 Dual-Band WiFi Connectivity

Supports both 5G and 2.4GHz WiFi networks, offering flexible and stable connection options for your home router.

Dual WiFi with WiFi 6

5G Wifi & 2.4G Wifi

WiFi 5
Speeds

WiFi 6
Speeds

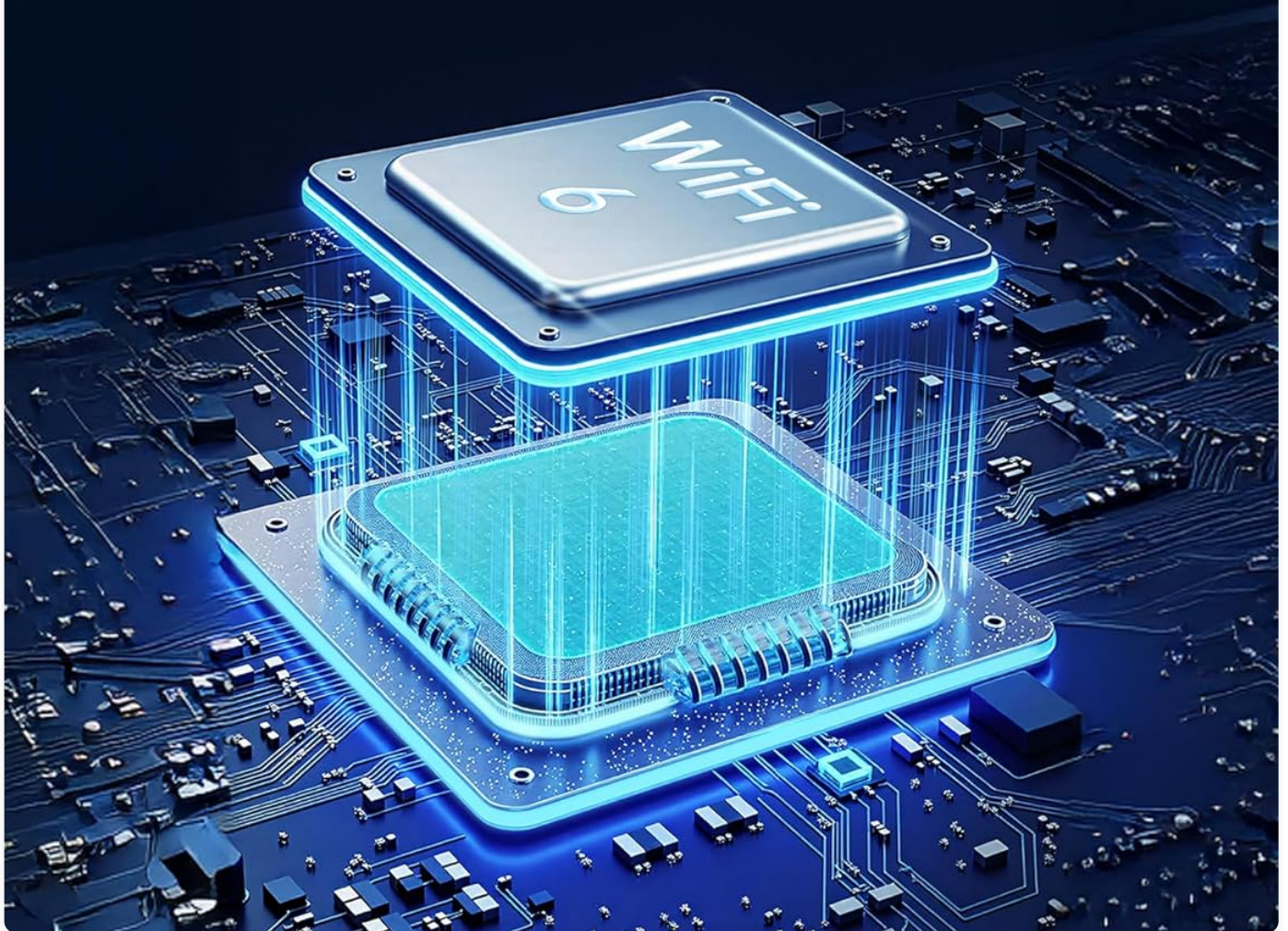


Image 3.2.1: Visual representation of the camera's dual-band WiFi capabilities, supporting both 5G and 2.4GHz networks for enhanced connectivity.

3.3 2K HD Video & Color Night Vision

Captures sharp 2K HD video (1440p) with an effective still resolution of 4 MP. Features a 136° wide-angle view to minimize blind spots. Built-in spotlights enable full-color night vision, providing clear and detailed images even in complete darkness up to 8

meters.

2K HD Resolution

136° Blindspot-free View

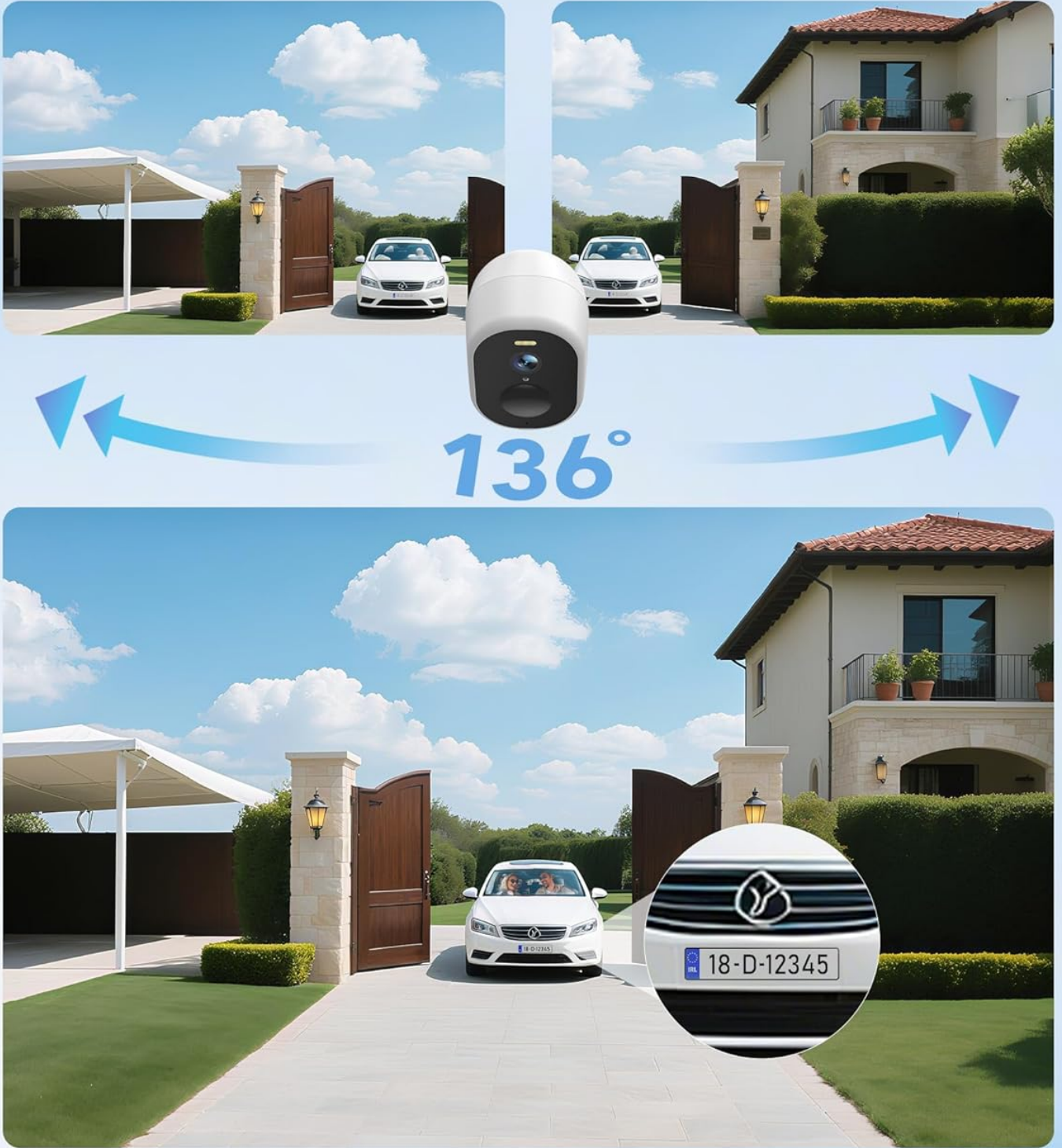


Image 3.3.1: Demonstrates the 2K HD resolution and 136-degree wide-angle view, ensuring comprehensive coverage without blind spots.

Color night vision

Say goodbye to black and white and enjoy color night vision!



Image 3.3.2: Comparison illustrating the clarity and detail provided by color night vision compared to traditional black and white.

3.4 PIR Motion Detection & AI Recognition

The passive infrared (PIR) sensor detects motion up to 8 meters away. Advanced AI algorithms can distinguish between people, vehicles, and pets, significantly reducing false alarms and ensuring you receive relevant alerts.

PIR Smart Detection

Real-time Notifications via APP



Person



Animal



Vehicle

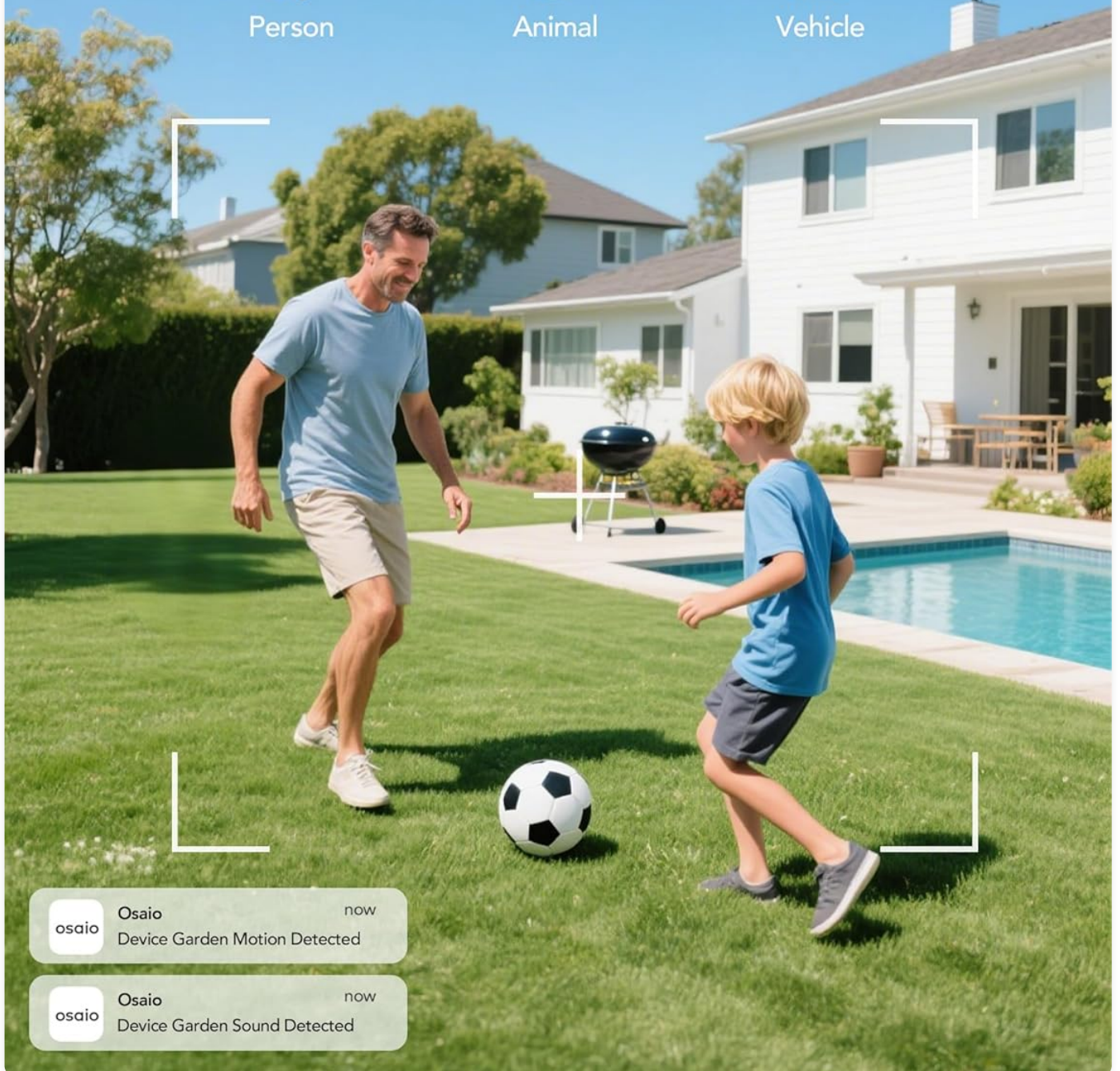


Image 3.4.1: Depicts the PIR smart detection system, showing how the camera identifies and sends notifications for people, animals, and vehicles.

AI-Precision Surveillance

AI accurately identifies people, reducing false alarms and enhances surveillance reliability.

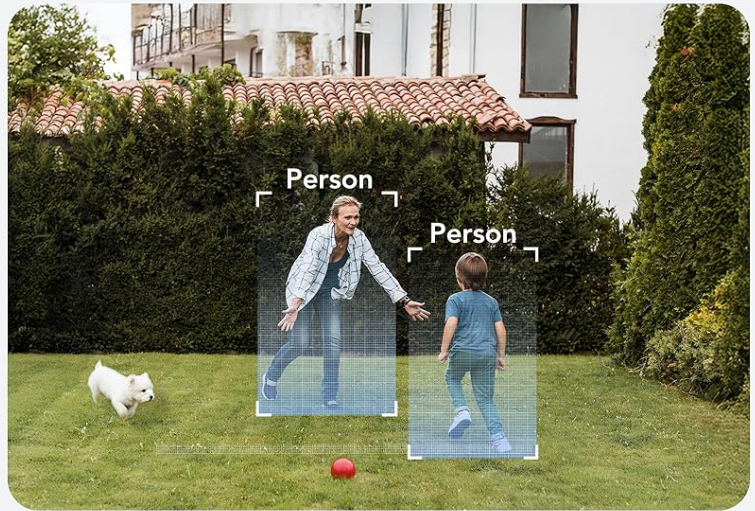


Image 3.4.2: Illustrates the AI-precision surveillance feature, highlighting how the system accurately identifies human figures to minimize false alarms.

3.5 Two-Way Audio

Communicate directly with visitors or deter intruders using the built-in microphone and speaker, accessible through the 'Osaio' app.

Two-Way Audio

Transmit sound across the air, zero distance communication, uninterrupted contact.

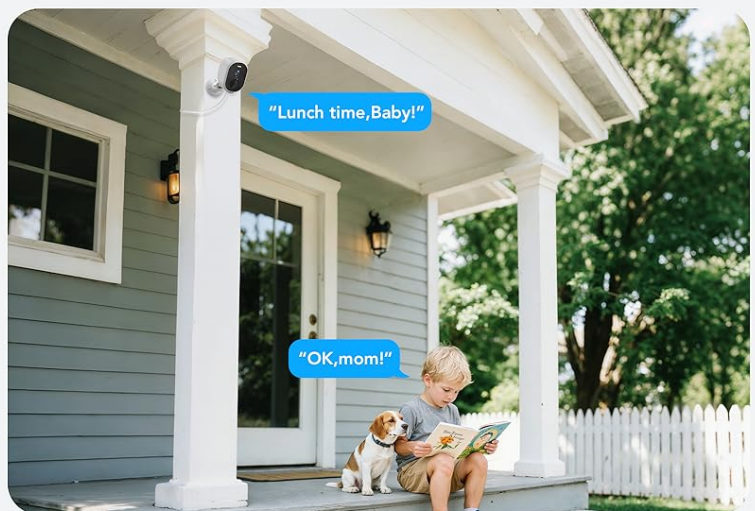


Image 3.5.1: Demonstrates the two-way audio functionality, allowing for real-time communication through the camera.

3.6 Cloud/SD Card Dual Storage

Offers flexible storage options: secure cloud storage (subscription required, 14-day free trial available) and local storage via an SD card (up to 128GB, not included).

Cloud/SD Card Dual Storage

No monthly fee cloud only saves videos for one day.



1

SD Card Storage
(not included)



2

Cloud Storage
(14-day free trial)



Image 3.6.1: Overview of the dual storage options, including cloud and local SD card storage, providing flexibility for video retention.

3.7 IP65 Waterproof Rating

The camera is rated IP65, ensuring it is fully protected against dust and can withstand low-pressure water jets from any direction, making it suitable for outdoor use in various weather conditions.

4. SETUP GUIDE

4.1 Initial Charging

Before first use, it is recommended to fully charge the camera's internal battery using the provided USB charging cable. Connect the cable to the camera's charging port and a standard USB power adapter (not included). The charging indicator light will show the charging status.

4.2 App Download and Installation

The GNCC GW5Pro camera operates with the 'Osaio' app. Download the 'Osaio' app from your smartphone's app store (Google Play Store for Android or Apple App Store for iOS).

4.3 Device Pairing and WiFi Connection

1. **Plug in the camera:** Ensure the camera is powered on.
2. **Open Osaio App:** Launch the 'Osaio' app on your smartphone and create an account or log in.
3. **Turn on Bluetooth:** Enable Bluetooth on your smartphone for easier device discovery.
4. **Add Device:** In the app, tap the '+' icon to add a new device. Follow the on-screen prompts to select your camera model and connect it to your 2.4GHz or 5GHz WiFi network.
5. **Name Device:** Once connected, you can name your camera for easy identification.

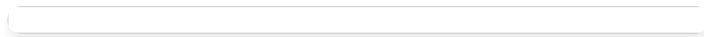


Image 4.3.1: Step-by-step guide for setting up the GNCC camera using the Osaio app, from plugging in to successful device naming.

4.4 Mounting the Camera

Choose a suitable outdoor location for mounting the camera. Ensure the solar panel receives ample direct sunlight throughout the day for optimal charging. Use the provided mounting bracket, screws, and anchors to securely attach the camera to a wall or other stable surface. Adjust the camera angle to cover your desired surveillance area.

Easy Installation Anywhere

Just Takes a few Minutes



Image 4.4.1: A person installing the GNCC solar camera on an exterior wall, demonstrating the ease of installation.

Place It Anywhere

For outdoor use, protect every corner of your home. Independent solar panels provide continuous power supply.



Image 4.4.2: An example of the camera's placement flexibility, showing it mounted on a house for outdoor surveillance.

5. OPERATING INSTRUCTIONS

5.1 Live View

Open the 'Osaio' app and select your camera from the device list to access the live video feed. You can view real-time footage from your camera anytime, anywhere.

5.2 Two-Way Audio

While in live view, tap the microphone icon in the app to speak through the camera's speaker. Tap again to end communication. Tap the speaker icon to listen to audio from the camera's surroundings.

5.3 Motion Detection Settings

Navigate to the camera settings in the 'Osaio' app to adjust motion detection sensitivity, set activity zones, and configure alert notifications. You can choose to receive alerts for people, vehicles, or pets specifically.

5.4 Recording and Playback

Recorded events are stored either in the cloud (with subscription) or on a locally inserted SD card (up to 128GB). Access the playback feature in the 'Osaio' app to review past recordings. The camera supports event recording, capturing important moments.

Event Recording

You will never miss any important moments



1- Day Cloud
6 seconds duration, 1 minute interval



Up to 128GB
(Not included)



Image 5.4.1: Visual representation of the event recording capability, ensuring no important moments are missed.

5.5 Night Vision Modes

The camera automatically switches to night vision in low light conditions. You can configure settings in the app to utilize the color night vision feature, which activates the built-in spotlights for full-color clarity.

Smart Spotlight & Instant Alert

Spotlight Color Night Vision



Image 5.5.1: Depicts the smart spotlight feature enabling color night vision and instant alerts for enhanced security.

6. MAINTENANCE

6.1 Cleaning

Regularly clean the camera lens and the solar panel surface with a soft, damp cloth to ensure optimal performance. Avoid using harsh chemicals or abrasive materials that could scratch the surfaces.

6.2 Battery Management

While the solar panel provides continuous charging, during prolonged periods of cloudy weather or low sunlight, the camera's battery level may drop. If the battery level becomes critically low, you may need to temporarily remove the camera and charge it fully using the USB cable.

6.3 Firmware Updates

Periodically check the 'Osaio' app for available firmware updates. Keeping your camera's firmware up-to-date ensures you have the latest features, security enhancements, and bug fixes.

6.4 SD Card Management

If using local SD card storage, ensure the card is properly inserted and formatted via the app. Regularly back up important recordings and consider replacing the SD card if it shows signs of degradation.

7. TROUBLESHOOTING

7.1 Camera is Offline or Not Connecting to WiFi

Solution: Ensure the camera is powered on and fully charged. Check your WiFi router's signal strength at the camera's location. Try restarting both the camera and your router. Verify that you are connecting to the correct WiFi network (2.4GHz or 5GHz) and that the password is correct. If issues persist, try re-pairing the device through the 'Osaio' app.

7.2 Poor Video Quality

Solution: Ensure the camera lens is clean and free from dirt or condensation. Check your WiFi connection stability and bandwidth, as a weak signal can affect video streaming quality. Adjust the camera's position to ensure optimal lighting conditions.

7.3 Receiving Too Many False Alarms

Solution: Adjust the motion detection sensitivity settings in the 'Osaio' app. Utilize the AI detection features to filter alerts for specific objects (people, vehicles, pets). Define specific activity zones to monitor only relevant areas and exclude high-traffic zones like public sidewalks.

7.4 Two-Way Audio Not Working

Solution: Check the microphone and speaker settings within the 'Osaio' app. Ensure your phone's volume is up and that the app has microphone permissions. Verify there are no obstructions blocking the camera's microphone or speaker.

7.5 SD Card Not Recording

Solution: Ensure an SD card (up to 128GB) is properly inserted into the camera's slot. Format the SD card through the 'Osaio' app. Check if the SD card is full; if so, back up data and format it. Ensure recording settings are enabled in the app.

8. SPECIFICATIONS

Feature	Specification
Model Name	GW5Pro-1N
Indoor/Outdoor Usage	Outdoor

Feature	Specification
Power Source	Solar Powered
Battery Power	5200 mAh
Connectivity Technology	Wireless (Wi-Fi)
Wireless Communication Technology	Wi-Fi (5G & 2.4GHz)
Video Capture Resolution	1440p (2K HD)
Effective Still Resolution	4 MP
Night Vision Range	8 Meters
International Protection Rating	IP65 (Waterproof)
Motion Detection	PIR Motion Detection with AI (Person, Car, Pet)
Audio	Two-Way Audio
Storage Options	Cloud Storage (Subscription), Local SD Card (up to 128GB)
Compatible Devices	Smartphone (Osaio App)
Controller Type	Amazon Alexa, Google Assistant
Mounting Type	Wall Mount
Color	White
Material	Acrylonitrile Butadiene Styrene (ABS)
Item Dimensions (L x W x H)	3.5 x 2.3 x 2.3 inches
Item Weight	1.1 pounds
UPC	850070296557

9. WARRANTY AND SUPPORT

9.1 Warranty Information

For detailed warranty information regarding your GNCC GW5Pro camera, please refer to the warranty card included with your product or visit the official GNCC website. Warranty terms and conditions may vary based on region and retailer.

9.2 Customer Support

- If you encounter any issues or have questions about your GNCC GW5Pro camera, please utilize the following resources:
- **Osaio App:** The 'Osaio' app often includes a help section, FAQs, and direct support contact options.
 - **GNCC Official Website:** Visit the GNCC website for product support, FAQs, and contact information for customer service.



Image 9.2.1: GNCC is committed to providing high-quality support to its customers.