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## Raycom BW4N-SP

# Raycom 5MP Solar Security Camera BW4N-SP User Manual

Model: BW4N-SP

## INTRODUCTION

The Raycom 5MP Solar Security Camera BW4N-SP is a wireless outdoor camera designed for home security. It features 2K QHD resolution, color night vision, smart motion detection, and two-way audio communication. Powered by a built-in 5200mAh battery and an included solar panel, this camera offers continuous operation without frequent recharging. This manual provides detailed instructions for the setup, operation, and maintenance of your security camera system.

## PRODUCT OVERVIEW

The Raycom BW4N-SP camera system includes the main camera unit and a solar panel for power. Key features include:

- **5MP QHD Resolution:** Provides clear and detailed video footage.
- **Solar Powered:** The solar panel ensures continuous battery charging, reducing manual intervention.
- **100% Wireless Design:** Offers flexible placement options without the need for power cables.
- **Color Night Vision:** Enhanced visibility in low-light conditions.
- **Smart AI Motion Detection:** Accurately identifies human movement and sends alerts.
- **Two-Way Audio:** Allows for real-time communication through the camera.
- **Alexa Compatibility:** Integrates with Amazon Alexa for voice control and viewing.
- **Local & Cloud Storage:** Supports Micro SD card storage (up to 128GB, not included) and free 1-day rolling cloud storage.
- **IP66 Weather Resistant:** Designed to withstand various outdoor weather conditions.



Image: Raycom 5MP Solar Security Camera with its accompanying solar panel.



Image: Raycom camera mounted on a wall, with icons illustrating features such as Sleep Mode, Real-time Live View, SD Storage, 90 Days Battery Life, Two-way Audio, Multi-users Share, 5MP resolution, Human Detection, IP66 rating, and 33ft Color Night Vision.

## SETUP

### 1. Initial Charging

Before the first use, fully charge the camera's built-in 5200mAh battery using a standard USB charger (not included). This ensures optimal performance and battery life from the start.

### 2. App Installation

Download and install the **O-KAM** app on your smartphone. The app is available for both iOS and Android devices. Search for "O-KAM" in your device's app store.

### 3. Wi-Fi Connection

Ensure your Wi-Fi network is 2.4GHz, as the camera supports 2.4GHz Wi-Fi connectivity. Follow the in-app instructions to connect your camera to your home Wi-Fi network. Place the camera within a strong Wi-Fi signal range for stable operation.

### 4. Mounting the Camera and Solar Panel

The camera is designed for wall mounting and comes with bracket screws for easy installation. Choose a location

that provides the desired viewing angle and ensures the solar panel receives direct sunlight for several hours daily. The solar panel should be positioned to maximize sun exposure throughout the day to maintain battery charge.

## Easy. Simple installation



Image: A person installing the Raycom security camera on a ceiling, demonstrating the ease of installation.

### OPERATING INSTRUCTIONS

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#### 1. Live View and Recording

Access real-time live view of your camera feed through the O-KAM app. The camera automatically records events triggered by motion detection.

#### 2. Night Vision

The camera features 5MP QHD resolution and an upgraded CMOS sensor for clear views up to 33 feet, even in low-light conditions. You can configure the camera in the app to utilize color night vision for more detailed nighttime footage.

## 5MP Color Night Vision

Capture details in 2.7K Resolution  
see more at night with color night vision



Image: Raycom camera mounted on a wall at night, showing a split screen comparison of infrared night vision mode and 5MP color night vision, highlighting enhanced detail.

### 3. Smart AI Motion Detection and Alerts

Equipped with smart AI motion detection, the camera can analyze and recognize people, reducing false alarms. The PIR sensor triggers real-time notifications to your phone via the O-KAM app when motion is detected. You can also manually define specific detection areas within the app to improve accuracy. In case of an anomaly, the camera can flash its lights and sound a siren to deter intruders.

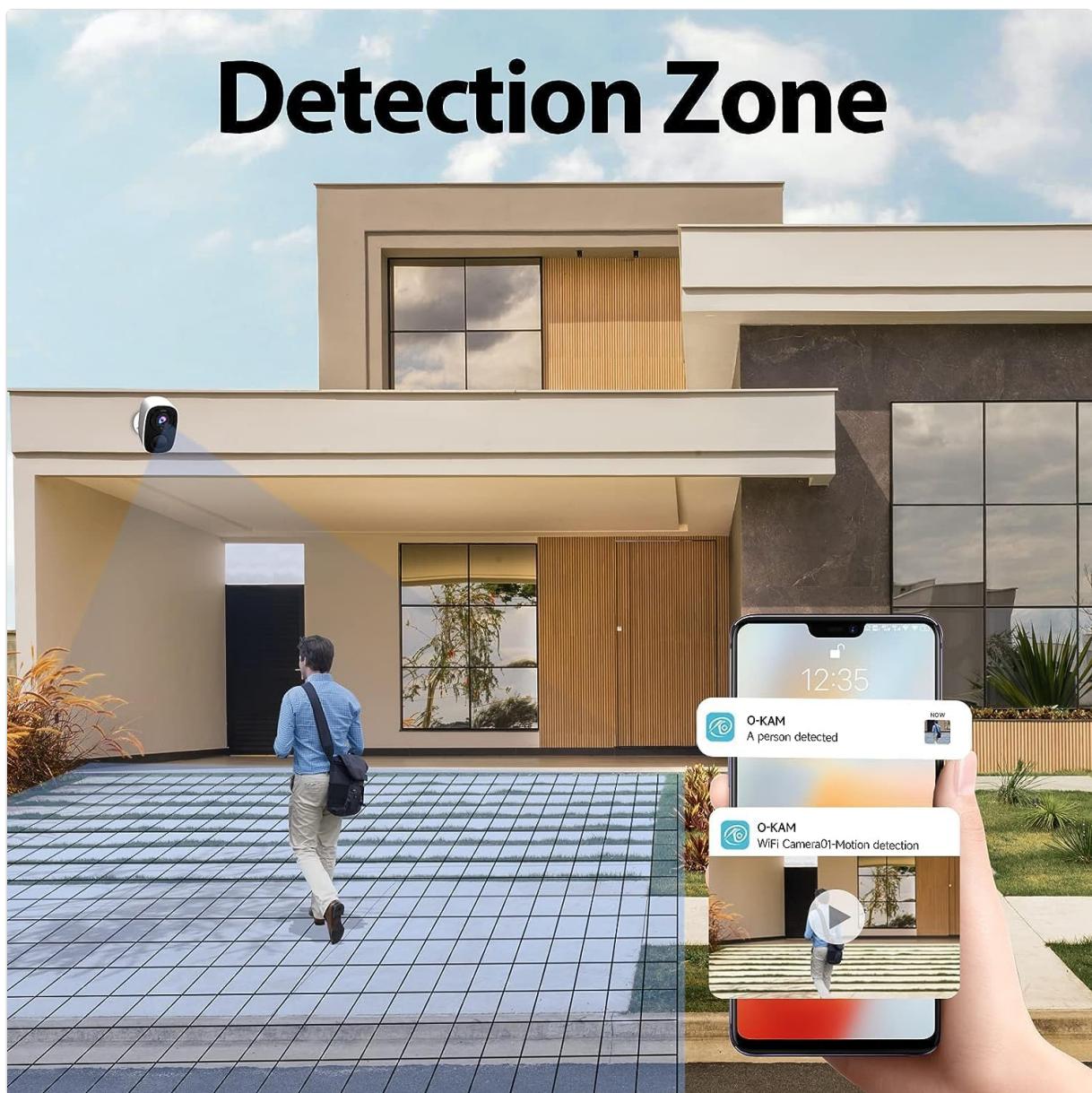


Image: An outdoor scene showing a person walking towards a house, with a phone displaying motion detection notifications from the Raycom camera, illustrating the detection zone feature.



Image: Raycom camera with a siren and spotlight warning, deterring a person attempting to break in, with a phone showing an alert, demonstrating active deterrence.

#### 4. Two-Way Audio

The camera includes a built-in microphone and speaker, enabling real-time two-way audio communication. Use the O-KAM app to speak to visitors, deter unwanted individuals, or communicate with family members.



Image: A delivery person at a door, with a phone screen showing the Raycom camera's two-way audio interface, indicating communication between the user and the person at the door.

#### 5. Storage Options

The camera offers flexible storage solutions:

- **Local Storage:** Supports Micro SD cards up to 128GB (not included) for local video storage.
- **Cloud Storage:** Provides free 1-day rolling cloud storage. Additional cloud storage plans may be available through the O-KAM app.

## Two Different Storage Way



3 Days playback  
for life free



up to  
256GB



Image: Illustration of two storage options: 3 days free cloud playback and local SD card storage up to 256GB, with various scenes of recorded video.

## 6. Alexa Integration

The Raycom camera is compatible with Amazon Alexa. You can integrate the camera with your Alexa-enabled devices to view live feeds using voice commands (e.g., "Alexa, show me the living room").

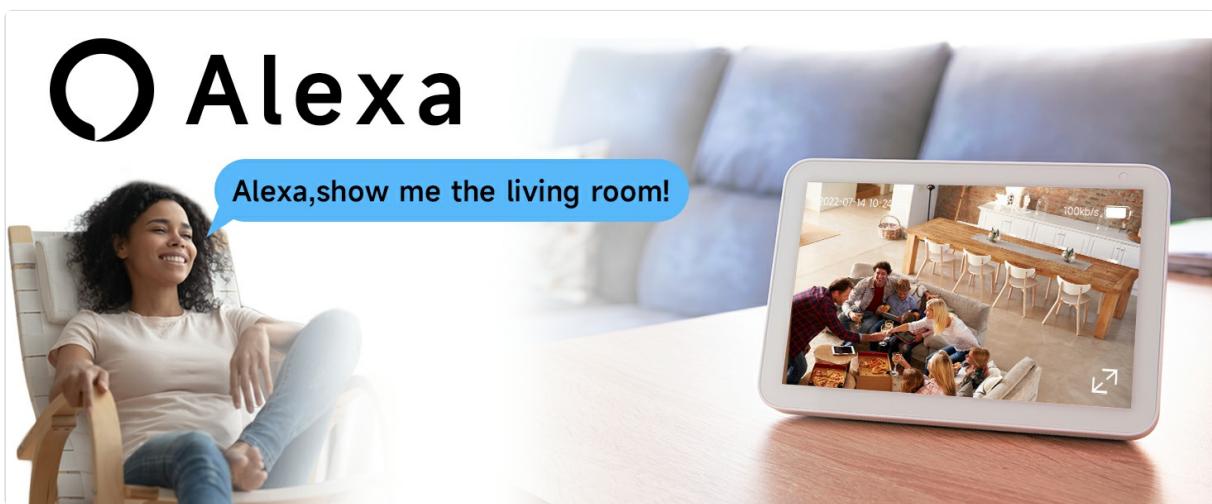


Image: A person relaxing on a chair, interacting with an Alexa device displaying the Raycom camera's live feed of a living room, demonstrating smart home integration.

## MAINTENANCE

### 1. Solar Panel Care

Regularly check and clean the solar panel to ensure it is free from dirt, dust, leaves, or snow. A clean solar panel maximizes sunlight absorption and maintains optimal battery charging efficiency.

### 2. Battery Life Considerations

The camera's battery life can vary based on device settings, actual usage patterns (e.g., frequency of motion detection, live view access), and environmental factors such as temperature and solar panel exposure.

### 3. Weather Resistance

The camera has an IP66 international protection rating, indicating it is weather-resistant and protected against dust and powerful water jets. While designed for outdoor use, ensure proper installation to prevent water accumulation around connections.

# IP66



Image: Close-up of the Raycom camera with water droplets, illustrating its IP66 weather resistance against rain and splashes.

## TROUBLESHOOTING

### 1. Wi-Fi Connectivity Issues

If the camera experiences poor Wi-Fi connectivity, ensure it is placed within optimal range of your 2.4GHz Wi-Fi router. Obstructions like thick walls or other electronic devices can interfere with the signal. Consider relocating the camera or improving your Wi-Fi coverage.

### 2. False Motion Detection Alerts

If you receive too many irrelevant motion alerts, utilize the O-KAM app to manually define specific detection areas. This helps the camera focus on critical zones and ignore common triggers like passing vehicles or swaying branches.

### 3. Short Battery Life

Ensure the solar panel is clean and receives adequate direct sunlight daily. High frequency of motion detection events, frequent live view access, or extreme temperatures can increase battery consumption. Adjust camera settings to optimize battery performance.

## SPECIFICATIONS

Feature	Detail
Model	BW4N-SP
Video Capture Resolution	5 MP
Power Source	Battery Powered (Solar Panel)
Battery Capacity	5200 mAh Lithium Ion (included)
Connectivity Technology	Wireless (Wi-Fi 2.4GHz)
Indoor/Outdoor Usage	Outdoor
Special Feature	Motion Sensor, Color Night Vision, 2-Way Talk
Night Vision Range	33 Feet
Field Of View	110 Degrees
Storage	Micro SD (up to 128GB), Cloud Storage
International Protection Rating	IP66
Compatible Devices	Smartphone (iOS/Android), Alexa
Mounting Type	Wall Mount
Item Weight	1.4 pounds

## SUPPORT

For any questions, technical assistance, or support regarding your Raycom 5MP Solar Security Camera, please contact our customer service team.

Email: [aftersale@rraycom.com](mailto:aftersale@rraycom.com)



Image: Graphic depicting customer service with a headset-wearing representative and contact email for support.

## Related Documents - BW4N-SP

<p>Raycom User Manual (QW5)</p>	<p><a href="#"><u>Raycom QW5 User Manual - Setup, Features, and Support</u></a> Comprehensive user manual for the Raycom QW5 security camera, covering setup, app registration, adding cameras, firmware updates, sharing, and advanced features like AI and cruise control. Includes customer support information.</p>
<p>Raycom User Manual (QW6)</p>	<p><a href="#"><u>Raycom QW6 Wireless Security Camera User Manual</u></a> A comprehensive user manual for the Raycom QW6 wireless security camera. This guide covers initial setup, app installation and registration, adding the camera, Wi-Fi configuration, and detailed explanations of app features like multi-device view, firmware updates, device sharing, rotation control, cruise and guard positions, and AI functions such as humanoid tracking and framing. Includes customer service information and a packing list.</p>
<p>Wire-Free Camera Operation Instruction (BW5)</p>	<p><a href="#"><u>Raycom BW5 Wire-Free Camera Operation Instruction &amp; Quick Start Guide</u></a> Detailed operation instructions and a quick start guide for the Raycom BW5 wire-free security camera, covering setup, app registration, device pairing, and feature usage.</p>

 <p>Wire-Free Camera Operation Instruction (BW4)</p>	<p><a href="#">Raycom BW4 Wire-Free Camera Operation Instructions</a> Comprehensive operation instructions for the Raycom BW4 wire-free camera, covering setup, app usage, and monitoring settings.</p>
	<p><a href="#">Raycom Security Camera Quick Start Guide</a> A comprehensive quick start guide for Raycom security cameras, covering network setup, troubleshooting, and connection methods like Smart Connection and Zink Connection.</p>
 <p>Raycom User Manual (P4)</p>	<p><a href="#">Raycom P4 User Manual: Setup, Features, and Support</a> Comprehensive user manual for the Raycom P4 camera. Learn how to set up your device, connect to Wi-Fi, use the O-KAM app for features like AI tracking and remote viewing, and find customer support information.</p>