

## Raycom BW6

# Raycom BW6B Wireless Battery-Powered Security Camera

User Instruction Manual

## 1. INTRODUCTION

Thank you for choosing the Raycom BW6B Wireless Battery-Powered Security Camera. This manual provides detailed instructions for the installation, operation, and maintenance of your new security camera. Please read this manual thoroughly before use to ensure proper functionality and to maximize the benefits of your device. This camera is designed for outdoor use, offering 2K QHD resolution, color night vision, AI motion detection, and two-way audio communication, powered by a built-in battery and solar panel for continuous operation.

## 2. PRODUCT OVERVIEW

### 2.1. Package Contents

Please verify that all components are present in your package:

- Rechargeable Battery Security Camera
- Solar Panel
- Metal Mount
- Screws Set & 1\*User Manual
- USB Cable

### 2.2. Key Features

- **Solar Powered with 5200mAh Battery:** Ensures 365 days of uninterrupted protection with a 3W solar panel and robust built-in battery.
- **2K QHD Resolution & 130° Wide View:** Provides clear, detailed video and a broad field of view for comprehensive monitoring.
- **Full-Color Night Vision:** Captures vivid images even in low-light conditions up to 33ft.
- **Advanced AI Motion Detection:** Intelligently analyzes and recognizes human motion, sending real-time alerts to your device.
- **Two-Way Talk & Siren Alarm:** Allows for remote communication and includes a customizable siren and spotlight for deterrence.
- **Flexible Storage Options:** Supports both cloud storage and local Micro SD card storage (up to 256GB) without subscription fees.
- **IP65 Waterproof:** Designed to withstand various outdoor weather conditions.

2.3. Product Diagram and Components



Figure 2.3.1: Front view of the Rraycom BW6B security camera with its accompanying solar panel.



Figure 2.3.2: Illustration of the camera and solar panel providing continuous power, highlighting 365 days of non-stop operation.

# 2K HD camera and 130° wide Angle



Figure 2.3.3: Comparison demonstrating the 2K HD resolution and 130-degree wide-angle view of the camera versus a standard view.

## AI Motion Detection





Figure 2.3.4: Depiction of the AI motion detection feature, showing a detected person and the camera's response with siren and spotlight.

# Two-way Audio

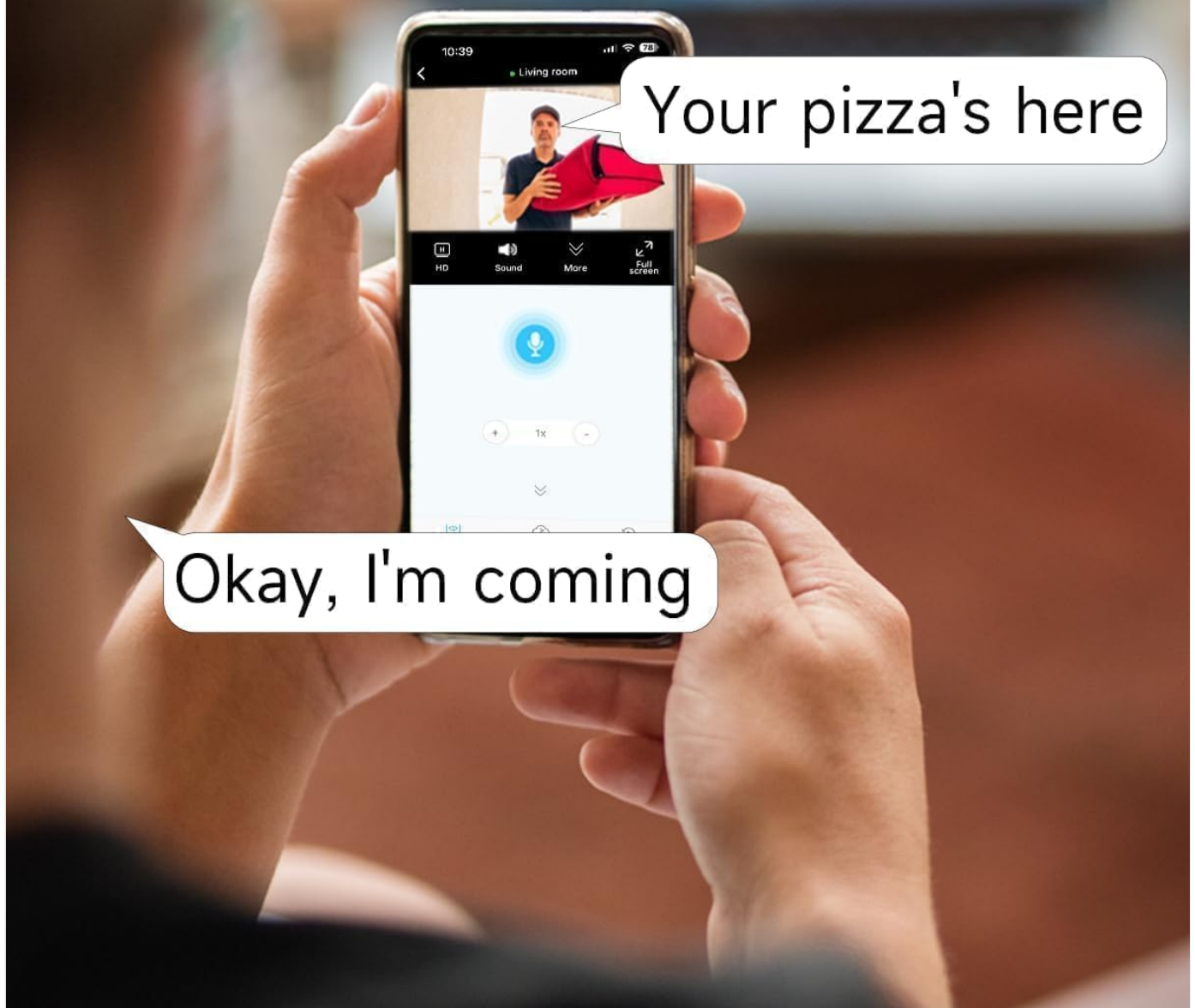


Figure 2.3.5: Illustration of the two-way audio functionality, enabling communication through the camera.

# 2K HD Color Night Vision

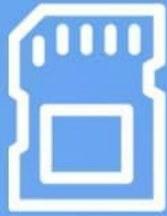


**33ft** Long Distance

Figure 2.3.6: Example of the 2K HD color night vision, showing clear imagery in low-light conditions up to 33 feet.



**Cloud  
Storage**



**Local  
Storage**



**NO Subscription Fee**

Figure 2.3.7: Diagram showing the camera's support for both cloud storage and local SD card storage (up to 256GB).





Figure 2.3.8: Demonstration of the camera's compatibility with Amazon Alexa for voice control and viewing.

## 3. SETUP GUIDE

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### 3.1. Initial Charging

Before initial use, fully charge the camera's built-in 5200mAh battery using the provided USB cable. Connect the USB cable to the camera's charging port and a standard 5V USB power adapter (not included). The charging indicator light will show the charging status.

### 3.2. App Download and Account Registration

1. Scan the QR code in the included user manual or search for the "Raycom" app in your mobile device's app store (iOS or Android).
2. Download and install the app.
3. Open the app and register a new account using your email address. Follow the on-screen prompts to complete registration and log in.

### 3.3. Camera Pairing

1. Ensure your mobile device is connected to a 2.4GHz Wi-Fi network. The camera does not support 5GHz Wi-Fi.
2. In the Rraycom app, tap the "+" icon to add a new device.
3. Select "Wireless Camera" or the appropriate camera model.
4. Power on the camera. If the camera is not in pairing mode (indicated by a flashing blue light), press and hold the reset button for 5 seconds until you hear a prompt.
5. Follow the app's instructions to enter your Wi-Fi password. The app will generate a QR code.
6. Hold your phone with the QR code approximately 6-8 inches (15-20 cm) in front of the camera lens until you hear a confirmation sound.
7. Once connected, the camera's indicator light will turn solid blue. You can then name your camera and complete the setup.

### 3.4. Installation and Placement

The Rraycom BW6B camera is 100% wire-free, offering flexible installation. Choose a location with good Wi-Fi signal and where the solar panel can receive direct sunlight for several hours daily.

1. **Mounting Location:** Identify a suitable outdoor location that provides the desired viewing angle (130° wide view) and is within Wi-Fi range. Consider areas prone to activity for optimal motion detection.
2. **Solar Panel Placement:** Mount the solar panel in an unshaded area that receives maximum direct sunlight throughout the day. Connect the solar panel cable to the camera's charging port.
3. **Secure Mounting:** Use the provided metal mount and screws to securely attach the camera and solar panel to a wall or other stable surface. Adjust the camera angle to cover your desired surveillance area.

## 4. OPERATING INSTRUCTIONS

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### 4.1. Live View and Playback

- Open the Rraycom app and select your camera from the device list to access the live view.
- From the live view interface, you can take screenshots, record video manually, and access two-way audio.
- To view recorded footage, tap on the "Playback" or "History" option within the camera interface. You can browse recordings by date and time.

### 4.2. Motion Detection Settings

- Navigate to the camera settings within the app.
- Locate "Motion Detection" or "PIR Settings".
- Adjust sensitivity levels (Low, Medium, High) to optimize detection and minimize false alarms.
- Enable or disable push notifications for motion events.
- Configure detection zones if available to focus on specific areas.

### 4.3. Two-Way Audio and Siren

- In live view, tap the microphone icon to activate two-way audio. Speak into your phone to communicate through the camera's speaker.
- To activate the siren alarm or spotlight, look for the respective icons in the live view or camera settings. You can also customize siren messages.

### 4.4. Night Vision Modes

The camera supports full-color night vision. This mode automatically activates in low-light conditions to provide clear, colored images up to 33 feet.

### 4.5. Storage Management

- **Micro SD Card:** Insert a Micro SD card (up to 256GB, not included) into the designated slot on the camera. The camera will automatically begin recording motion-triggered events to the card.
- **Cloud Storage:** The Raycom camera offers cloud storage options. Refer to the app for details on free trial periods and available plans.
- You can access and manage both local and cloud recordings through the app's playback section.

### 4.6. Amazon Alexa Integration

The Raycom BW6B camera is compatible with Amazon Alexa. To integrate:

1. Ensure your camera is properly set up in the Raycom app.
2. Open the Amazon Alexa app.
3. Go to "Skills & Games" and search for the "Raycom" skill.
4. Enable the skill and link your Raycom account.
5. Discover devices. You can now use voice commands like "Alexa, show me the [camera name]" on compatible Alexa devices with screens.

## 5. MAINTENANCE

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### 5.1. Cleaning the Camera and Solar Panel

Regular cleaning ensures optimal performance:

- Wipe the camera lens and solar panel surface with a soft, damp cloth to remove dust, dirt, or debris.
- Avoid using harsh chemicals or abrasive materials that could scratch the lens or panel.
- Ensure the solar panel is free from obstructions (e.g., leaves, snow) that could block sunlight.

### 5.2. Battery Care

While the solar panel provides continuous charging, occasional checks are recommended:

- Monitor the battery level via the Raycom app.
- If the camera is installed in an area with limited sunlight, you may need to manually charge the camera using the USB cable periodically.
- Avoid exposing the camera to extreme temperatures for prolonged periods, as this can affect battery life.

### 5.3. Firmware Updates

Raycom may release firmware updates to improve performance or add new features. Check the app regularly for update notifications and follow the instructions to install them. Ensure the camera has sufficient battery life before starting an update.

## 6. TROUBLESHOOTING

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Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Camera not connecting to Wi-Fi.	Incorrect Wi-Fi password, 5GHz network, weak signal, camera too far from router.	Ensure 2.4GHz Wi-Fi. Verify password. Move camera closer to router or use a Wi-Fi extender. Reset camera and try pairing again.
Blurry image or poor video quality.	Protective film on lens, dirty lens, poor lighting, network bandwidth issues.	Remove any protective film. Clean the camera lens with a soft cloth. Ensure adequate lighting. Check your internet speed.
Motion detection not working or too sensitive.	Incorrect sensitivity settings, obstructions, environmental factors (e.g., swaying branches).	Adjust motion detection sensitivity in the app. Ensure camera is positioned correctly to cover the desired area. Minimize environmental factors that could trigger false alarms.
Battery not charging or draining quickly.	Insufficient sunlight on solar panel, faulty solar panel connection, extreme temperatures.	Ensure solar panel is in direct sunlight and free from obstructions. Check solar panel cable connection. Manually charge the camera via USB if needed.
Two-way audio issues (e.g., distorted sound).	Microphone/speaker obstruction, network latency, software glitch.	Ensure nothing is blocking the camera's microphone or speaker. Check network stability. Restart the app or camera.

## 7. SPECIFICATIONS

Feature	Detail
Model Name	BW6
Indoor/Outdoor Usage	Outdoor
Video Capture Resolution	2K QHD
Viewing Angle	130 Degrees
Night Vision Range	33 Feet (Full-Color)
Power Source	Solar Powered, Battery (5200 mAh)
Connectivity Technology	Wireless (Wi-Fi, 2.4GHz)
Compatible Devices	Android & iOS Smartphones, Amazon Alexa
Motion Detection	Advanced AI Motion Detection (PIR Sensor)
Audio	2-Way Audio
Storage Options	Cloud Storage, Micro SD Card (up to 256GB)



Feature	Detail
Water Resistance Level	IP65 Waterproof
Material	ABS Plastic
Frame Rate	15 frames per second
Voltage	5 Volts (DC)
Wattage	17 Watt-hours

## 8. WARRANTY AND CUSTOMER SUPPORT

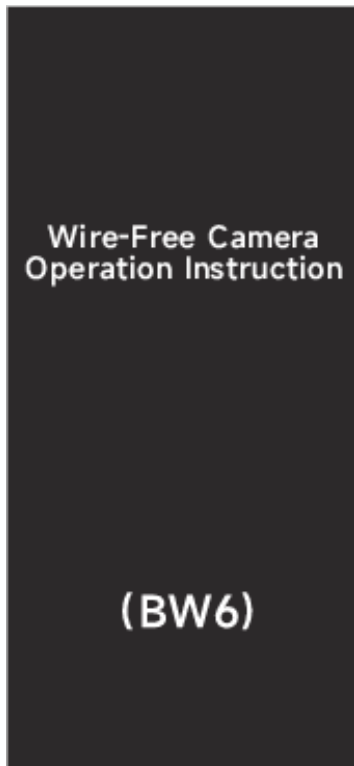
Raycom provides a 1-year warranty for the BW6B Wireless Battery-Powered Security Camera, covering manufacturing defects and malfunctions under normal use. Please retain your proof of purchase for warranty claims. For technical assistance, troubleshooting, or warranty inquiries, please contact Raycom customer support:

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

**Online Support:** Visit the official Raycom website for FAQs and additional resources.



Figure 8.1: Raycom Customer Service contact details.



[\[pdf\]](#) User Manual Guide Warranty

BW6 2 BW6 User manual guide for 2 4G Wire Free Security Camera O KAM Pro Rraycom drive  
google file d 1CG5illpUuJDhALqHZBOgD ynU qbUaKI view usp share link |||

Wire-Free Camera Operation Instruction **BW6** Customer Service Claim 1-year  
warranty for your device Please email us: aftersale rraycom.com Phone: 1  
2027384449 Facebook Sun. - Thur. 8pm - 12pm Rraycomz gmail.com Packing List  
Camera \*1 Bracket \*1 USB Cable \*1 Instruction\*1 Mounting Kit...

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[\[pdf\]](#) Declaration of Conformity Test Report

Ivan Su Test Report 2 4G WiFi5 Shenzhen Jinshoushi Technology CO LTD BW6 Wire Free Camera  
2BA4K 2BA4KBW6 bw6

Shenzhen Toby Technology Co., Ltd. Report No.: TBR-C-202306-0316-3 Page: 1 of  
41 Radio Test Report FCC ID: 2BA4K-**BW6** Report No. : TBR-C-202306-0316-3  
Applicant : Shenzhen Jinshoushi Technology CO., LTD Equipment Under Test EUT  
EUT Name : **BW6** Wire-Free Camera Model No. : **BW6** Series M...

lang:en **score:20** filesize: 2.01 M page\_count: 41 document date: 2023-08-29