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BEENOCAM QW5-DS2

BEENOCAM QW5-DS2 4K Dual Lens Solar Security Camera User Manual

Model: QW5-DS2

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your BEENOCAM QW5-DS2 4K Dual Lens Solar Security Camera. Please read this manual thoroughly before using the product to ensure proper functionality and safety. This camera system is designed for outdoor surveillance, featuring dual lenses for comprehensive coverage, solar power for continuous operation, and advanced detection capabilities.

2. WHAT'S IN THE BOX

- BEENOCAM QW5-DS2 Dual Lens Solar Security Camera (2 units for 2-pack)
- Solar Panel
- Charging Cable
- Mounting Hardware (screws, anchors)
- User Manual

3. PRODUCT OVERVIEW

The BEENOCAM QW5-DS2 camera integrates advanced features for robust outdoor security. Key components and functionalities are outlined below.



Image 3.1: Overview of the BEENOCAM QW5-DS2 Dual Lens Solar Security Camera system, including the camera unit and solar panel.

3.1 Dual Lens & Dual Screen Functionality

The camera features a dual-lens design. One lens provides a wide-angle panoramic view, while the other is a telephoto PTZ (Pan-Tilt-Zoom) lens for detailed observation. The associated application allows for simultaneous viewing of both feeds, enabling users to click on the panoramic screen to automatically direct the PTZ lens to a specific area.



Image 3.2: Illustration of the dual lens system, showing how one device functions as two cameras with a wide-angle view and a controllable PTZ view.

3.2 Solar Powered & 100% Wire-Free

Equipped with a solar panel, the camera utilizes solar energy to recharge its built-in high-capacity battery, ensuring continuous operation without external power wiring. A charging cable is also included for alternative charging methods if required.



Image 3.3: Diagram showing the solar panel connected to the camera, illustrating the uninterruptible power supply mechanism.

3.3 4K 8MP HD & Color Night Vision

The camera delivers 4K (8MP) high-definition video. It offers three night vision modes: infrared, full-color, and intelligent night vision, allowing for clear visibility in low-light conditions.

Color Night Vision



Image 3.4: Comparison of color night vision (with spotlights) and infrared night vision (monochrome) capabilities of the camera.

3.4 PIR Human Detection & Auto Tracking

Utilizing Passive Infrared (PIR) technology and artificial intelligence algorithms, the camera accurately detects human figures, minimizing false alarms. When a human is detected, the auto-tracking function activates, allowing the PTZ lens to follow the subject's movement.



Image 3.5: Depiction of PIR human detection and auto-tracking in action, highlighting detected individuals and the camera's ability to follow movement.

3.5 2-Way Audio & Intelligent Storage

The integrated microphone and speaker enable two-way communication. Video recordings can be stored locally on a Micro SD card (up to 256GB, not included) or via optional cloud storage services.

SD Card & Cloud Storage



SD Card
(Up to 256GB)



Cloud
Storage



Image 3.6: Visual representation of the camera's storage options, including Micro SD card (up to 256GB) and cloud storage.

3.6 IP66 Weatherproof Rating

The camera is rated IP66, indicating resistance to dust and water ingress, making it suitable for various outdoor weather conditions. It is designed to operate within a temperature range of 14°F to 131°F (-10°C to 55°C).



Image 3.7: Diagram illustrating the IP66 weatherproof rating, highlighting sunproof, waterproof, dustproof, and cold resistance features.

3.7 2.4/5GHz WiFi Connectivity

The camera supports both 2.4GHz and 5GHz Wi-Fi networks, offering flexible connectivity options for stable data transmission.

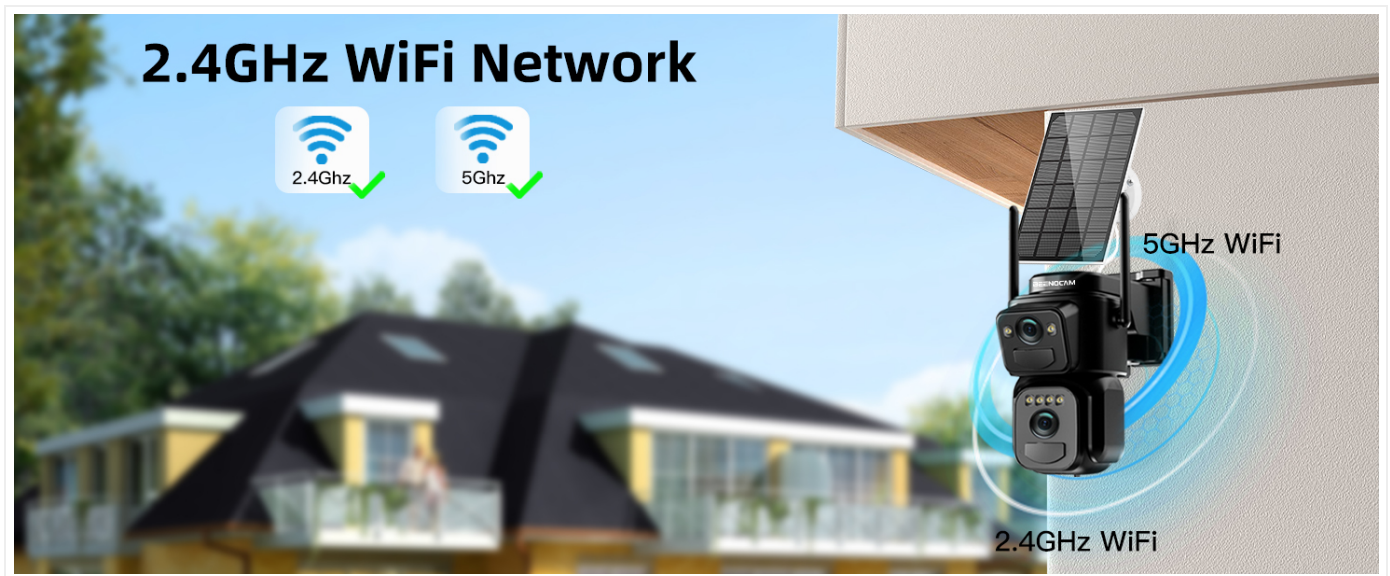


Image 3.8: Visual indicating support for both 2.4GHz and 5GHz Wi-Fi networks for camera connectivity.

4. SETUP

4.1 App Installation

1. Download the recommended application (e.g., O-KAM Pro or Eye4) from your smartphone's app store (iOS or Android).
2. Register for an account and log in.

4.2 Camera Mounting

1. Select a suitable outdoor location for the camera and solar panel, ensuring optimal sunlight exposure for the panel.
2. Use the provided mounting hardware to securely attach the camera and solar panel to a wall or other stable surface.
3. Connect the solar panel to the camera using the provided cable.

4.3 Network Connection

1. Power on the camera.
2. Open the installed application and follow the on-screen instructions to add a new device.
3. Scan the QR code on the camera or manually enter the device ID.
4. Select your Wi-Fi network (2.4GHz or 5GHz) and enter the password. Ensure the camera is within range of your Wi-Fi router.
5. Once connected, the camera will appear in your device list within the app.

5. OPERATION

5.1 Live View & Dual Screen Functionality

- Access the live feed through the application. The dual-screen interface displays both the wide-angle and PTZ views.
- Tap on the panoramic view to direct the PTZ camera to a specific area of interest.

5.2 PTZ Control

- Use the directional controls within the app to pan (355° horizontally) and tilt (90° vertically) the PTZ lens.

- Utilize the zoom function to magnify specific details.

5.3 Night Vision Modes

- **Infrared Night Vision:** Provides clear black and white video in complete darkness using infrared LEDs.
- **Color Night Vision:** Activates built-in spotlights to provide full-color video in low-light conditions.
- **Intelligent Night Vision:** Automatically switches between infrared and color night vision based on detected motion or ambient light.
- Adjust these settings within the camera's configuration menu in the app.

5.4 Motion Detection & Auto Tracking

- Enable PIR Human Detection in the app settings to receive alerts only for human-shaped objects.
- Activate Auto Tracking to allow the PTZ camera to follow detected human movement.
- Configure custom detection zones to focus on specific areas and reduce unwanted alerts.



Image 5.1: Example of customized detection zones set up within the camera's field of view to optimize motion alerts.

5.5 Two-Way Audio

- Tap the microphone icon in the live view interface to speak through the camera's speaker.
- Listen to audio from the camera's vicinity through your smartphone.

5.6 Alerts & Alarms

- Configure push notifications in the app to receive real-time alerts on your smartphone when motion or human detection occurs.
- Enable the spotlight and siren alarm functions to deter intruders. These can be set to activate automatically upon detection.

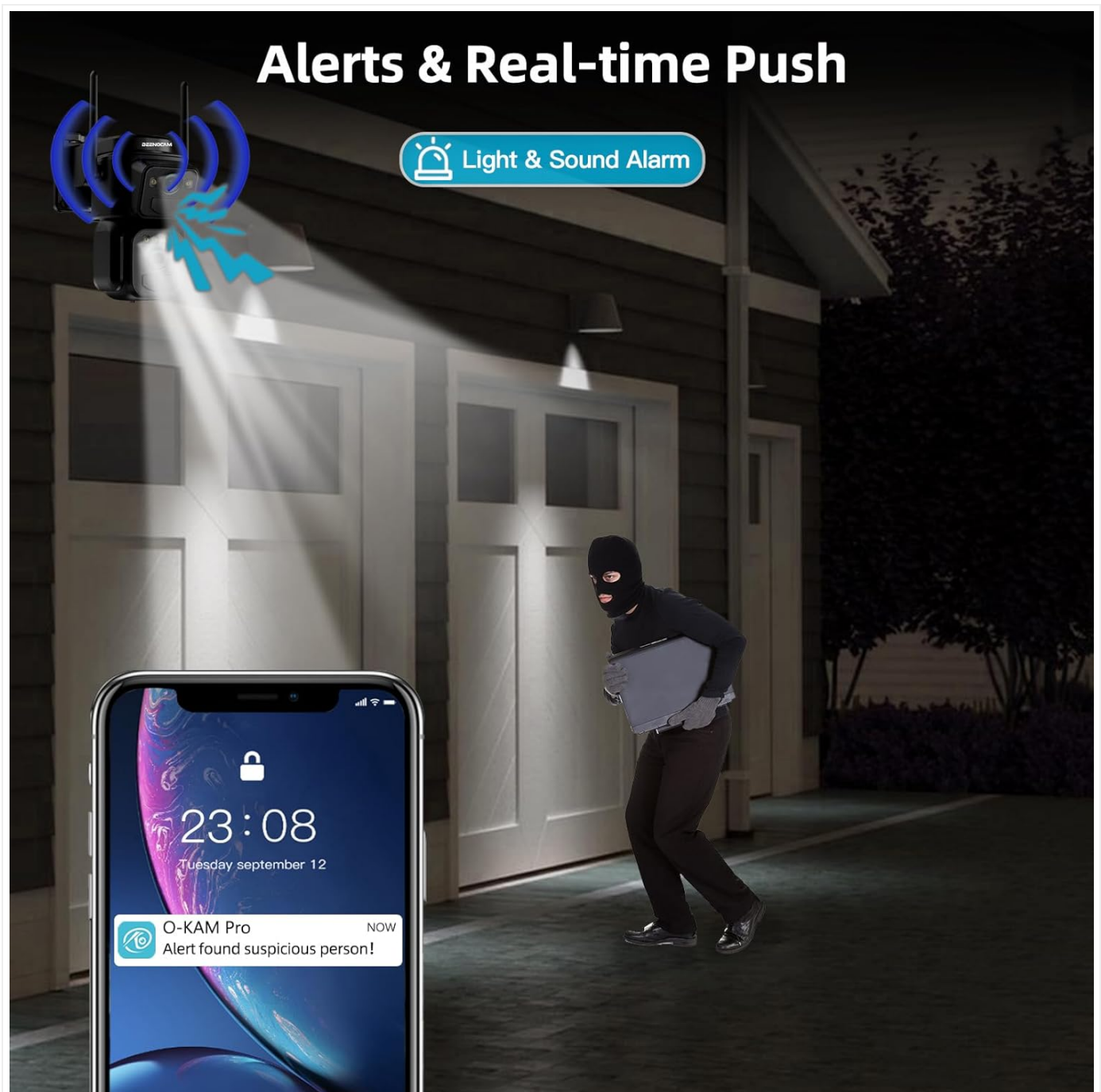


Image 5.2: Illustration of real-time push notifications and the camera's light and sound alarm system activating upon detection.

5.7 Storage Management

- **Micro SD Card:** Insert a Micro SD card (up to 256GB) into the designated slot on the camera for local video storage. Ensure the card is formatted correctly via the app.
- **Cloud Storage:** Explore optional cloud storage plans offered within the application for remote and secure video backup.

5.8 Multi-User Sharing

- The application supports sharing camera access with multiple users. Generate a QR code or use other sharing options within the app to grant access to family members or trusted individuals.

6. MAINTENANCE

6.1 Solar Panel Cleaning

- Regularly clean the surface of the solar panel to ensure maximum sunlight absorption and charging efficiency. Use a soft, damp cloth to remove dust, dirt, or debris.

6.2 Battery Management

- The camera's battery is primarily charged by the solar panel. In periods of prolonged low sunlight, or if the battery level drops significantly, you may use the provided charging cable to manually recharge the camera.
- Monitor the battery status through the application.

6.3 Environmental Considerations

- While the camera is IP66 weatherproof, extreme weather conditions outside its operating temperature range (14°F to 131°F / -10°C to 55°C) may affect performance. Consider temporary relocation or additional protection in such cases.

7. TROUBLESHOOTING

• **Camera Not Connecting to Wi-Fi:**

- Ensure your Wi-Fi network is 2.4GHz or 5GHz. The camera supports both.
- Verify the Wi-Fi password is correct.
- Move the camera closer to the Wi-Fi router to improve signal strength.
- Restart your router and the camera.

• **Frequent False Alarms:**

- Adjust the motion detection sensitivity settings in the app.
- Configure specific detection zones to exclude areas with frequent irrelevant movement (e.g., trees swaying).
- Ensure PIR Human Detection is enabled to filter out non-human motion.

• **Poor Night Vision Quality:**

- Ensure the camera lens is clean and free from obstructions.
- Check if the night vision mode is set appropriately (Infrared, Color, or Intelligent).
- Verify that the built-in spotlights (for color night vision) are not obstructed.

• **SD Card Not Recording:**

- Ensure the Micro SD card is inserted correctly.
- Format the SD card through the camera settings in the app.
- Check if the SD card has sufficient storage space or if it's faulty.

• **Battery Draining Quickly:**

- Ensure the solar panel is receiving adequate direct sunlight.
- Clean the solar panel regularly.
- Reduce the frequency of motion detection events or live view access if not critical, as these consume battery power.

• **App Performance Issues (Lag, Ads):**

- Ensure your app is updated to the latest version.
- Check your internet connection speed.
- Some apps may display advertisements; consider optional cloud storage subscriptions if available to remove ads, as noted by some users.

• **Alexa/Smart Home Integration Issues:**

- Ensure the correct skill (e.g., O-Kam skill) is enabled and linked in your Alexa app.
- Verify that your camera is properly connected to the internet and the associated app.

- Try disabling and re-enabling the skill in your Alexa app.

8. SPECIFICATIONS

Model Name	QW5-DS2
Brand	BEENOCAM
Indoor/Outdoor Usage	Outdoor
Video Capture Resolution	4K (8MP)
Connectivity Technology	Wireless (Wi-Fi)
Connectivity Protocol	Wi-Fi (2.4GHz / 5GHz)
Power Source	Battery/Solar Powered
Batteries	3 Lithium Ion batteries (included)
Special Features	Dual Lens, 2-Way Audio, Local Recording, Motion Sensor, Night Vision, PTZ Technology, Auto Tracking, Spotlight/Siren Alarm
Storage Options	Micro SD Card (up to 256GB), Cloud Storage (optional)
Controller Type	APP (Smartphone)
Mounting Type	Wall Mount
IP Rating	IP66 Weatherproof
Operating Temperature	14°F to 131°F (-10°C to 55°C)
Product Dimensions	9 x 5 x 6 inches
Item Weight	4.44 pounds

9. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please refer to the contact details provided with your product packaging or visit the official BEENOCAM website. Protection plans may be available for extended coverage.

