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COOAU AR-W630

COOAU 2K 3MP Solar Wireless Outdoor Security Camera User Manual

Model: AR-W630

Introduction | Safety Information | Package Contents | Product Overview | Setup | Operation | Maintenance | Troubleshooting | Specifications | Warranty & Support

1. Introduction

Thank you for choosing the COOAU 2K 3MP Solar Wireless Outdoor Security Camera. This manual provides detailed instructions for setting up, operating, and maintaining your camera to ensure optimal performance and security for your home or property. This camera features high-resolution video, AI human detection, two-way audio, and is powered by a solar panel for continuous operation.

2. Safety Information

- Ensure the camera is installed securely to prevent falling.
- Do not expose the camera to extreme temperatures outside its operating range (-10°C to 50°C).
- Keep the camera and solar panel away from fire or heat sources.
- Do not attempt to disassemble or modify the camera. This will void the warranty.
- Use only the provided accessories and power sources.
- Keep out of reach of children.

3. Package Contents

Please check the package for the following items:

- 1 x Camera
- 1 x Solar Panel
- 1 x Outdoor Stand
- 1 x USB Cable

- 1 x Reset Pin
- 6 x Rubber Plugs, Screws
- 1 x Japanese Instruction Manual (Please refer to this English manual for detailed instructions)

4. Product Overview

The COOAU AR-W630 camera system consists of a compact wireless camera and a solar panel for continuous power. The camera features a high-resolution lens, motion sensor, microphone, and speaker for two-way communication.



Figure 4.1: COOAU AR-W630 Camera and Solar Panel. The image shows the white security camera with a black front panel, featuring a lens and a light, connected to a separate solar panel via a cable. Both are mounted on white bases.



Figure 4.2: Comparison of 2K vs. 1080P resolution. This image illustrates the superior clarity of 2K (2048x1536P) resolution compared to 1080P, showing a split view of a garden with children, where the 2K side is noticeably sharper.

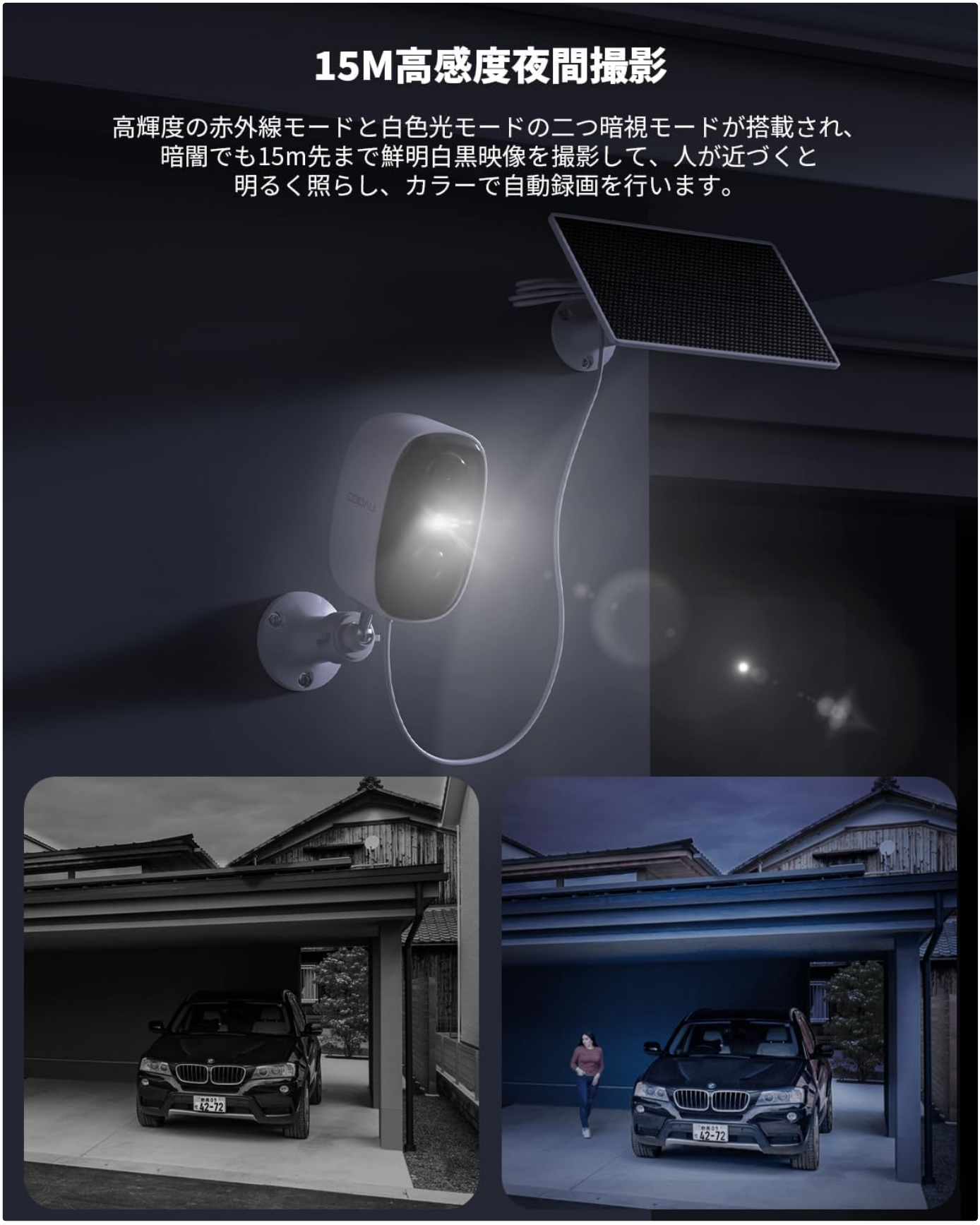


Figure 4.3: Night vision capabilities. This image demonstrates the camera's ability to capture clear footage up to 15 meters in low light, showing both infrared black and white mode and color night vision when a person is detected and the spotlight activates.

5. Setup

5.1 Initial Setup and App Connection

The camera is designed for easy setup. Simply download the dedicated app and scan the QR code on the camera to

identify it. Follow the in-app instructions to complete the initial configuration.

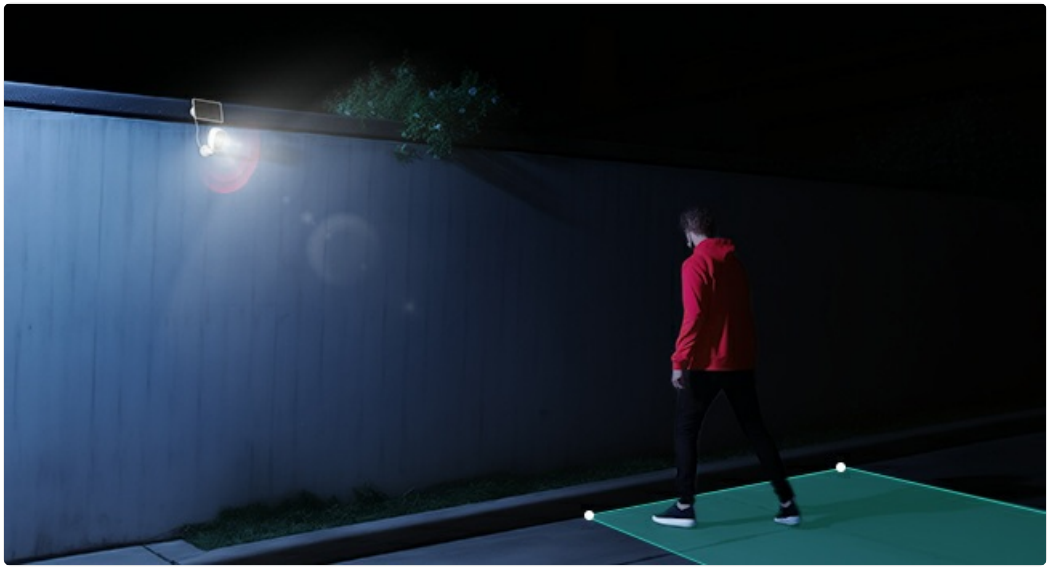


Figure 5.1: Simple setup process. This image shows a smartphone with the camera app, the camera itself, and a WiFi signal icon, illustrating the three steps: download app, add camera by scanning QR code, and start WiFi connection. The camera is shown on a desk next to a potted plant.

5.2 Installation

The camera comes with a wall mount for flexible placement. No external power source or wiring work is required due to its battery and solar panel design. You can check the WiFi signal strength in the app to ensure stable communication at your chosen installation location.



Figure 5.2: Flexible installation. A person is shown installing the camera on a wall, demonstrating its compact and lightweight design that allows for easy placement without wiring constraints.

5.3 Solar Charging

Connect the included solar panel to the camera. The high-capacity rechargeable battery combined with the solar panel ensures long-term operation without frequent manual charging, providing 365-day continuous monitoring.



Figure 5.3: Solar power for continuous monitoring. The image shows the camera and solar panel mounted on a building, with sunlight illuminating the solar panel, indicating its charging capability for uninterrupted surveillance.

6. Operation

6.1 High-Resolution Video and Night Vision

The camera records in 2K (2048x1536P) resolution, providing clear and vibrant images. It features two types of LEDs:

infrared and sensor lights. In low light, it automatically switches to black and white infrared mode. When human motion is detected, the spotlight illuminates, allowing for color video recording even at night. This is ideal for monitoring entrances, corridors, garages, offices, or warehouses.

6.2 AI Human Detection and Smart Alerts

Equipped with a PIR thermal sensor, the camera detects human bodies and animals with temperature differences, sending instant alarm notifications to your smartphone with recorded video. AI human detection minimizes false alarms caused by light changes or insect movements by focusing only on human motion. Advanced AI image analysis (paid feature) can differentiate between pets, packages, cars, and humans, streamlining your search for specific events. You can also set specific detection areas to avoid unnecessary alerts from public pathways.



Figure 6.1: AI Human Detection. This image shows the camera detecting human movement and sending an alert to a smartphone, while ignoring other movements outside the detection zone. It highlights the camera's ability to distinguish between humans, pets, packages, and vehicles.



Figure 6.2: Smart Sound and Light Alarm. The image depicts a person entering a detection area at night, triggering the camera's spotlight and an alarm message on a smartphone, deterring potential intruders with light and sound.

6.3 Two-Way Audio and Wide-Angle Viewing

The camera has a built-in high-sensitivity microphone and speaker, allowing for real-time two-way communication. This feature is useful for speaking with visitors at your door or checking on children playing in the yard. The 130° ultra-wide-angle lens covers large areas like entrances, gardens, or parking lots, providing comprehensive surveillance.



Figure 6.3: Two-Way Audio. This image shows a split screen: one side depicts a person speaking into a smartphone, and the other side shows a child at a gate, illustrating the two-way communication feature of the camera.

6.4 Recording and Playback

Recordings can be saved to a Micro SD card (up to 128GB) or to the cloud. The camera supports automatic overwriting, so you don't have to worry about storage limits. Free cloud storage is available for 6-second clips for one week. Important moments, such as evidence of car mischief or children returning home, can be recorded and played back. You can select from 4 playback speeds to efficiently review footage.



Figure 6.4: Recording and Playback. This image highlights the camera's ability to record to a Micro SD card (up to 128GB) or free 6-second cloud storage. It also shows a smartphone interface with playback speed options (0.5x, 1x, 2x, 4x), demonstrating efficient review of recorded events.

6.5 Smart Home Integration and Family Sharing

The camera is compatible with Alexa. You can simply ask Alexa to display the camera's real-time feed, allowing you to check on your outdoor environment while busy with other tasks. The sharing function allows multiple smartphones to view the camera feed simultaneously, enabling family members to share important moments and monitor the property together,

regardless of distance.



Figure 6.5: Alexa Compatibility and Family Sharing. This image shows a person exercising while viewing the camera feed on a smart display via Alexa voice command. It also illustrates multiple family members viewing the same camera feed on their smartphones, emphasizing the sharing feature.

7. Maintenance

The COOAU security camera is designed with IP65 waterproof and dustproof rating, ensuring reliable operation in various weather conditions, including strong sunlight and heavy rain. This allows for year-round, worry-free outdoor use.

- Regularly wipe the camera lens and solar panel with a soft, damp cloth to ensure clear vision and efficient charging.
- Do not use harsh chemicals or abrasive cleaners.
- Ensure the solar panel is free from obstructions (e.g., leaves, snow) to maximize sunlight exposure.



Figure 7.1: IP65 Waterproof Rating. This image shows the camera and solar panel mounted outdoors, with water droplets on them, indicating their resistance to water and dust. It also displays a temperature range from -10°C to 50°C, highlighting its durability in various climates.

8. Troubleshooting

Problem	Possible Cause	Solution
Camera not connecting to Wi-Fi.	Weak Wi-Fi signal; incorrect password; camera too far from router.	Ensure camera is within Wi-Fi range. Check Wi-Fi password. Restart router and camera.
No recording or missing events.	SD card full/corrupted; motion detection sensitivity too low; solar panel not charging.	Format or replace SD card. Adjust motion detection sensitivity in app. Ensure solar panel is clean and receiving direct sunlight.
Poor image quality.	Dirty lens; low light conditions; network bandwidth issues.	Clean the lens. Ensure sufficient lighting for color night vision. Check network speed.
Two-way audio not working.	Microphone/speaker blocked; app permissions; volume settings.	Ensure nothing is obstructing the microphone or speaker. Check app permissions for microphone access. Adjust volume settings in the app.

If you encounter issues not listed here, please refer to the Warranty & Support section for contact information.

9. Specifications

Feature	Detail
Model Name	AR-W630
Brand	COOAU
Video Capture Resolution	3MP (2048x1536P)
Color	White
Number of Items	1
Wireless Communication Technology	Wi-Fi
Field of View	130 degrees
Mounting Type	Wall Mount
Night Vision Range	15 meters
Material	Plastic
Voltage	5 Volts (DC)
Product Dimensions (LxWxH)	5.5 x 5 x 10.5 cm
Water Resistance Level	Waterproof (IP65)
Product Weight	215 g
Light Source	LED
Battery Included	Yes
Battery Type	Lithium Ion
Recommended Uses For Product	Outdoor Security
Connectivity Technology	Wireless
Compatible Devices	Tablet, Smartphone
Power Source	Battery Powered
Controller Type	APP

10. Warranty & Support

COOAU offers a 12-month quality guarantee for this product. We are committed to providing not only continuous product improvement but also the best possible support with sincerity. Our products have obtained technical and PSE certifications.
For support, please contact us via:

- Your order history: Go to your order history and contact the seller.

- Our official email address (details typically found on product packaging or official website).

We are dedicated to ensuring your satisfaction and providing assistance for any questions or issues you may have.

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