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COOAU Q02

COOAU Solar Outdoor Security Camera User Manual

Model: Q02 / AR-W608

Product Overview

The COOAU Solar Outdoor Security Camera (Model Q02 / AR-W608) is a 2K PTZ (Pan-Tilt-Zoom) wireless WiFi IP camera designed for comprehensive outdoor surveillance. It features smart motion detection, enhanced night vision capabilities, and two-way audio communication. Powered by a solar panel, it offers flexible installation without the need for frequent manual charging. The camera is constructed from durable, fire-retardant materials and boasts an IP66 waterproof rating, making it suitable for various outdoor environments and weather conditions.



Image: The COOAU Solar Outdoor Security Camera, showing the main camera unit connected to a solar panel for continuous power. The camera is black with two antennas and a lens with integrated LEDs.

Key Features

- **2K Resolution:** Provides clear and detailed video footage for effective monitoring.
- **PTZ Functionality:** Offers 355° horizontal pan and 90° vertical tilt capabilities for comprehensive area coverage.
- **Solar Powered:** Equipped with a dedicated solar panel for continuous power, significantly reducing the need for manual charging.
- **Smart Motion Detection:** Combines intelligent humanoid detection with PIR temperature sensing to accurately identify movement and minimize false alarms.

- **Enhanced Night Vision:** Features 4 white LEDs and 4 infrared LEDs, providing clear night vision, including a color night vision mode.
- **Two-Way Audio:** Enables real-time communication with individuals near the camera through the integrated microphone and speaker.
- **IP66 Waterproof:** Designed to withstand various outdoor weather conditions, ensuring reliable operation.
- **Wireless Connectivity:** Connects via 2.4 GHz Wi-Fi, allowing for flexible placement without extensive wiring.

Package Contents

Please check the package contents upon unboxing to ensure all components are present and undamaged.

- COOAU Solar Outdoor Security Camera (Model Q02 / AR-W608)
- Solar Panel
- Mounting Bracket
- Mounting Screws and Wall Plugs
- USB Charging Cable
- User Manual

Setup Guide

1. Charging the Camera

Before initial use, it is recommended to fully charge the camera's internal battery using the provided USB cable. Connect the USB cable to the camera's charging port and a 5V USB power adapter (not included). The charging indicator light will show the charging status.

2. App Installation and Account Creation

Download the official COOAU security camera application from your smartphone's app store (iOS App Store or Google Play Store). Follow the on-screen instructions within the app to create an account and log in.

3. Camera Pairing

1. Open the COOAU app and tap "Add Device" or the "+" icon to begin the pairing process.
2. Select "Wireless Camera" or the appropriate camera model from the list.
3. Ensure the camera is powered on and your smartphone is connected to a 2.4GHz Wi-Fi network.
4. Follow the app's instructions to scan the QR code located on the camera or enter the device ID manually.
5. Once successfully connected, you can name your camera and configure initial settings such as time zone and recording preferences.

4. Mounting the Camera and Solar Panel

Choose a mounting location that provides a clear, unobstructed view of the area you wish to monitor and ensures the solar panel receives ample direct sunlight throughout the day. The camera and solar panel are designed for flexible installation.

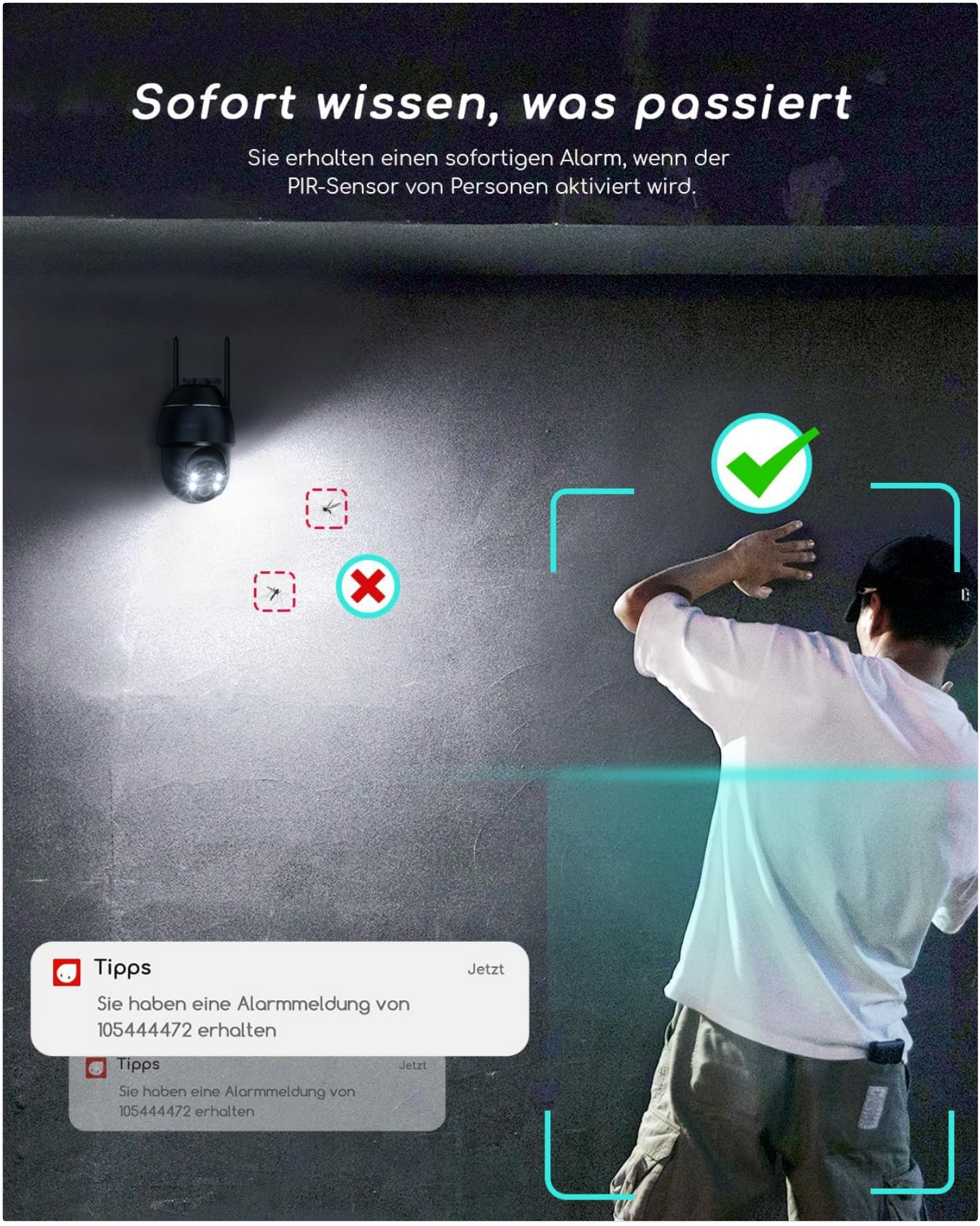

Image: Two COOAU security cameras, each connected to a solar panel, mounted on the exterior of a building. This illustrates typical outdoor installation with solar power, emphasizing cable-free operation.

1. Mark the drilling points for the mounting bracket on the desired surface.
2. Drill holes and insert wall plugs if necessary, ensuring a secure anchor.
3. Secure the mounting bracket using the provided screws.
4. Attach the camera to the mounting bracket. The unique design allows for quick and secure attachment.
5. Mount the solar panel in a location that maximizes sun exposure and connect its cable to the camera's charging port. Ensure the connection is secure and waterproof.

Operating Instructions

Live View and Playback

Open the COOAU app and select your camera from the device list to access the live view feed. You can pan and tilt the camera remotely using the directional controls within the app to adjust the viewing angle. Recorded footage can be accessed and reviewed through the playback function, typically found in the camera's interface within the app, allowing you to review past events.



Image: A diagram illustrating the camera's extensive 355-degree horizontal pan and 90-degree vertical tilt capabilities, providing a wide

and flexible field of view.

Motion Detection and Alerts

The camera utilizes intelligent humanoid detection and PIR temperature sensing to accurately detect motion. When motion is detected, the camera will automatically record an event and send an instant alert notification to your smartphone. You can customize detection sensitivity, define specific detection zones, and set alert schedules within the app settings to effectively reduce false alarms and focus on relevant events.



Image: A visual representation of the camera's motion detection feature, showing a person triggering an alert and a smartphone displaying an immediate notification, indicating real-time awareness.

Night Vision Modes

The camera supports both traditional infrared night vision and enhanced color night vision. In low-light conditions, the camera automatically switches to night vision mode. The integrated spotlights can be activated by motion or manually to provide full-color night vision, significantly enhancing visibility and detail in the dark.



Image: A side-by-side comparison demonstrating the difference between color night vision (with spotlights activated) and infrared night vision, highlighting improved detail and color in the former.

Two-Way Audio

Utilize the two-way audio feature to communicate with individuals near the camera. This function is useful for deterring unwanted visitors, speaking with delivery personnel, or interacting with family members. Access this feature through the microphone icon in the live view interface of the app.



Image: A scene showing a child and a chicken, with thought bubbles indicating remote communication, illustrating the two-way audio feature of the camera for interactive monitoring.

Maintenance

Cleaning

Regularly clean the camera lens and solar panel surface to ensure optimal performance. Use a soft, damp cloth to gently wipe away dust, dirt, and debris. Avoid using harsh chemicals, abrasive materials, or excessive force that could scratch the surfaces or damage the components.

Battery Management

The solar panel is designed to keep the camera's internal battery charged under normal sunlight conditions. In periods of prolonged low sunlight, heavy cloud cover, or exceptionally high usage, the camera's battery level may drop. Monitor the battery status within the COOAU app and, if necessary, manually charge the camera using the provided USB cable to ensure continuous operation.

Firmware Updates

Periodically check the COOAU app for available firmware updates. Keeping your camera's firmware updated ensures optimal performance, enhances security features, and provides access to new functionalities. Follow the in-app instructions carefully when performing firmware updates.

Troubleshooting

- **Camera Not Connecting to Wi-Fi:**
  - Ensure your Wi-Fi network is 2.4GHz. The camera does not support 5GHz Wi-Fi.
  - Check the Wi-Fi signal strength at the camera's installation location. Move the camera closer to the router if the signal is weak.
  - Restart your Wi-Fi router and the camera.
  - Verify that the Wi-Fi password entered in the app is correct.
- **Poor Video Quality:**
  - Clean the camera lens to remove any smudges or dirt.
  - Ensure there is adequate lighting in the monitored area, especially for night vision performance.
  - Check your internet connection speed. A slow connection can affect live view and recording quality.
- **Frequent False Alarms:**
  - Adjust the motion detection sensitivity settings within the app to a lower level.
  - Define specific detection zones to exclude areas with irrelevant movement, such as swaying tree branches or busy public roads.
  - Ensure the camera is not pointing directly at reflective surfaces or areas with constant, non-human motion.
- **Battery Not Charging with Solar Panel:**
  - Ensure the solar panel is receiving direct sunlight for several hours a day, free from obstructions.
  - Clean the solar panel surface to remove any dust, dirt, or debris that might hinder charging efficiency.
  - Check the connection cable between the solar panel and the camera to ensure it is securely plugged in and undamaged.
  - Consider manual charging via USB if sunlight is consistently insufficient due to weather or location.

Specifications

Feature	Detail

Model Number	Q02 / AR-W608
Resolution	3MP (2K)
Pan/Tilt Angle	355° Pan, 90° Tilt
Connectivity	2.4GHz Wi-Fi
Power Source	Solar Powered (with internal Lithium-ion battery)
Battery Capacity	37 Watt-hours
Night Vision Range	Up to 15 meters
Waterproof Rating	IP66
Audio	Two-Way Audio
Dimensions (L x W x H)	16 x 15 x 10 cm
Weight	800 grams
Operating Voltage	5 Volts
Frame Rate	20 frames per second

Warranty and Support

COOAU provides a two-year warranty period for this security camera, ensuring product quality and reliability. For any inquiries, technical support, or product replacement requests, please contact COOAU customer service. Information regarding warranty extension plans for special circumstances may also be available.
For the most up-to-date support contact information, please refer to the documentation included with your product packaging or visit the official COOAU website.

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