Aoluvy CBL03F-4G

Aoluvy CBL03F-4G 4G LTE Solar Powered Outdoor Security Camera User Manual

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your Aoluvy CBL03F-4G 4G LTE Solar Powered Outdoor Security Camera. Please read this manual thoroughly before using the product to ensure proper functionality and safety. Keep this manual for future reference.

2. Product Overview

2.1 Package Contents

Please check the package contents upon unboxing:

- Aoluvy CBL03F-4G 4G LTE Solar Powered Outdoor Security Camera
- Solar Panel
- Mounting Bracket and Screws
- User Manual (this document)
- Nano SIM card (user must provide)

2.2 Key Features

- **4G LTE Connectivity:** Operates independently without Wi-Fi, ideal for remote locations. Requires a Nano SIM card with a cellular data plan.
- **Solar Powered:** Equipped with a solar panel for continuous power, reducing the need for manual recharging.
- **1080p Full HD Video:** Captures clear video footage.
- **IP67 Waterproof:** Designed for outdoor use, resistant to dust and water ingress.
- **Two-Way Audio:** Built-in microphone and speaker for real-time communication.
- **PIR Motion Detection:** Detects human body movement to trigger recording and send alerts.
- **Color Night Vision:** Provides full-color video even in low-light conditions using integrated spotlights.
- **Flexible Storage:** Supports cloud storage (30-day free trial) and local SD card storage (up to 128GB, not included).

2.3 Product Diagram

Refer to the image below for a visual representation of the camera components.



Figure 2.3.1: Front view of the Aoluvy CBL03F-4G camera, showing the lens, PIR sensor, spotlights, and integrated solar panel on top, mounted on a wall bracket.

3. Setup

3.1 SIM Card and SD Card Installation

1. Locate the SIM card slot and SD card slot on the camera. These are typically protected by a rubber seal.
2. Carefully open the protective cover.
3. Insert a Nano SIM card (with an active 4G data plan) into the SIM card slot. Ensure correct orientation.
4. Insert a compatible Micro SD card (up to 128GB, Class 10 or higher recommended) into the SD card slot for local storage.
5. Close the protective cover firmly to maintain the IP67 waterproof rating.

3.2 App Installation and Account Creation

1. Download the designated mobile application from your smartphone's app store (e.g., Google Play Store for Android, Apple App Store for iOS). The app name is usually provided in the quick start guide or on the product packaging.
2. Install the app and create a new user account following the on-screen instructions.

3. Log in to your newly created account.

3.3 Camera Pairing

1. Power on the camera. The camera will enter pairing mode, indicated by a specific LED light pattern (refer to the quick start guide for details).
2. In the mobile app, select "Add Device" or a similar option.
3. Follow the in-app instructions to scan the QR code on the camera or manually enter the device ID.
4. Once successfully paired, the camera's live feed should appear in the app.

3.4 Mounting the Camera

Choose a location that provides optimal sunlight exposure for the solar panel and a clear view of the area you wish to monitor. Ensure the 4G signal is strong at the chosen location.

1. Mark the drilling points on the wall using the mounting bracket as a template.
2. Drill holes and insert wall plugs if necessary.
3. Secure the mounting bracket to the wall with the provided screws.
4. Attach the camera to the mounting bracket and adjust the angle for optimal coverage and solar panel exposure.

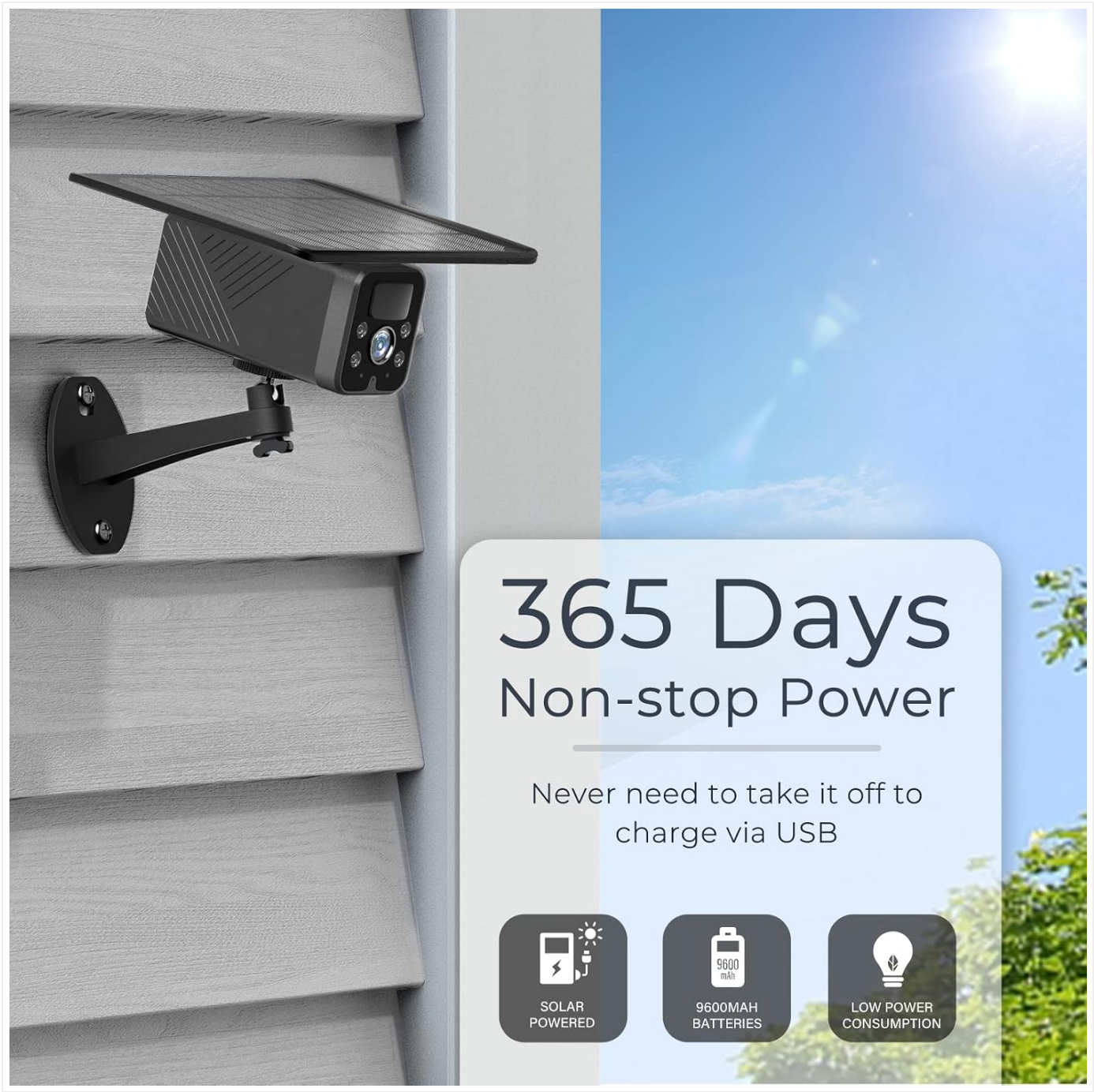


Figure 3.4.1: The Aoluvy CBL03F-4G camera mounted outdoors, showcasing its solar panel for continuous power, eliminating the need for frequent USB charging.

4. Operation

4.1 Live View

Open the mobile app and select your camera from the device list to access the live video feed. You can view real-time footage from your camera at any time.

4.2 Two-Way Audio

While in live view, tap the microphone icon in the app to enable two-way audio. You can speak through your phone, and your voice will be broadcast through the camera's speaker. Similarly, you can hear audio from the camera's surroundings.



Figure 4.2.1: Illustration of the camera's two-way audio function, allowing users to communicate remotely with individuals near the camera via a smartphone app.

4.3 PIR Motion Detection and Alerts

The camera utilizes a Passive Infrared (PIR) sensor to detect human body movement. When motion is detected, the camera will:

- Begin recording video.
- Send a push notification to your paired mobile device.
- Activate spotlights for color night vision (if enabled).

You can adjust the sensitivity of the PIR sensor and notification settings within the mobile application.



Figure 4.3.1: A smartphone screen showing a "Front door Activity detected" notification, demonstrating the camera's smart human motion detection and instant alerts.

4.4 Recording and Storage

The camera records video only when motion is detected. It does not support 24/7 continuous recording.

- **SD Card Storage:** Insert a Micro SD card (not included) for local storage. The camera will automatically overwrite older footage when the card is full.
- **Cloud Storage:** The camera supports cloud storage for recorded events. A 30-day free trial is typically offered. Cloud storage provides an encrypted backup of your footage.

4.5 Night Vision

The camera features two night vision modes:

- **Infrared Night Vision:** Standard black and white night vision.
- **Color Night Vision:** Utilizes integrated spotlights to provide full-color video in low-light conditions. This mode can be

toggled within the mobile app.



Figure 4.5.1: A visual comparison demonstrating the clarity and detail of the camera's 1080p color night vision, enabled by four smart spotlights, versus standard night vision.

5. Maintenance

5.1 Cleaning

- Regularly wipe the camera lens and solar panel with a soft, damp cloth to remove dust and dirt.
- Do not use harsh chemicals or abrasive cleaners, as these can damage the camera's finish or lens.

5.2 Battery and Solar Panel Care

- Ensure the solar panel receives adequate direct sunlight for several hours each day to maintain battery charge.
- In prolonged periods of low sunlight, the camera's battery may deplete. If this occurs, you may need to manually charge the camera via its USB port (if available) or relocate it to a sunnier spot.

- The camera is designed for outdoor use and is IP67 waterproof.



Figure 5.2.1: The Aoluvy CBL03F-4G camera operating effectively during rainfall, demonstrating its IP67 waterproof design for reliable outdoor performance.

6. Troubleshooting

Problem	Possible Cause	Solution
Camera not powering on.	Low battery; solar panel not receiving enough sunlight.	Ensure solar panel is in direct sunlight. If possible, manually charge the camera via USB.
No 4G signal or connectivity issues.	SIM card not inserted correctly; no active data plan; poor network coverage.	Check SIM card insertion and ensure it has an active data plan. Relocate the camera to an area with better 4G coverage. Restart the camera.

Problem	Possible Cause	Solution
Motion detection alerts are not received or are too frequent.	Incorrect PIR sensitivity settings; app notification settings disabled.	Adjust PIR sensitivity in the app. Check your phone's notification settings for the camera app.
Video recording issues (e.g., no recording, corrupted files).	SD card full or faulty; cloud storage subscription expired; camera not detecting motion.	Check SD card status, format if necessary, or replace. Verify cloud storage subscription. Ensure PIR motion detection is enabled and sensitivity is appropriate.
Two-way audio not working.	Microphone/speaker blocked; app permissions not granted.	Ensure no obstructions. Check app permissions for microphone access on your smartphone.

7. Specifications

Feature	Detail
Model Number	CBL03F-4G
Connectivity	4G LTE (Nano SIM required)
Video Resolution	1080p Full HD
Power Source	Solar Powered, Rechargeable Battery (2 CR2032 batteries required, likely internal)
Waterproof Rating	IP67
Audio	Two-Way Audio (Built-in microphone and speaker)
Motion Detection	PIR (Passive Infrared) Sensor
Night Vision	Color Night Vision, Infrared Night Vision
Storage Options	Cloud Storage, Micro SD Card (up to 128GB, not included)
Installation Type	Wall-Mounted
Material	Plastic
Dimensions	16.99 x 13.49 x 7.49 cm (6.69 x 5.31 x 2.95 inches)
Weight	454 g (1 lb)
Compatible Devices	Smartphone (Android, iPhone)

8. Warranty and Support

For warranty information or technical support, please refer to the contact details provided with your product packaging or visit the official Aoluvy website. Please have your model number (CBL03F-4G) and purchase information ready when contacting support.

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