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› GENBOLT 2K Solar WiFi Security Camera User Manual

GENBOLT GB216K

GENBOLT 2K Solar WiFi Security Camera User Manual

Model: GB216K | Brand: GENBOLT

1. INTRODUCTION

Thank you for choosing the GENBOLT 2K Solar WiFi Security Camera. This manual provides comprehensive instructions for the installation, operation, maintenance, and troubleshooting of your new security camera system. Please read this manual carefully before use to ensure proper functionality and to maximize the lifespan of your device. Keep this manual for future reference.

2. PRODUCT OVERVIEW

The GENBOLT 2K Solar WiFi Security Camera is an advanced outdoor surveillance solution designed for ease of use and reliable performance. Featuring 2K (4MP) resolution, a solar charging panel, and a high-capacity battery, it offers wireless operation and continuous monitoring. Key features include PIR human detection, color night vision, two-way audio, and pan/tilt capabilities for comprehensive coverage.



Figure 2.1: GENBOLT 2K Solar WiFi Security Camera and Solar Panel.

2.1 Package Contents

- GENBOLT 2K Solar WiFi Security Camera
- Solar Charging Panel (6W)
- Mounting Bracket
- Mounting Screws and Wall Plugs
- USB Type-C Charging Cable (3 meters)
- User Manual



Figure 2.2: Camera Components and Dimensions. Includes HD Lens, Indicator Light, PIR, IR Sensor, 4pcs White LED, TF Card Slot & RESET Button, Dual Antenna, Type-C Charger & Power On/Off, and overall dimensions.

3. SETUP

3.1 Initial Charging

Before initial use, fully charge the camera's built-in 15000mAh battery using the provided USB Type-C cable and a 5V power adapter (not included). A full charge ensures optimal performance and battery life, especially during periods of low sunlight.

3.2 App Installation

Download the official GENBOLT Cam app from your smartphone's app store (iOS App Store or Android Google Play Store). Search for "GENBOLT Cam".

1. Scan the QR code provided in the quick start guide or on the product packaging to directly download the app.
2. Install the app and create an account.

3.3 Camera Connection (Wi-Fi Setup)

1. Open the GENBOLT Cam app and tap "Add Device" or the "+" icon.
2. Follow the on-screen prompts to select your camera model.
3. Power on the camera. The indicator light will flash, indicating it's ready for pairing.
4. Connect your smartphone to a 2.4GHz Wi-Fi network. (5GHz networks are not supported).
5. Enter your Wi-Fi password in the app. The app will generate a QR code.
6. Hold your phone with the QR code approximately 15-20 cm (6-8 inches) in front of the camera lens until you hear a confirmation sound from the camera.
7. Once connected, name your camera and set a password.

3.4 Mounting the Camera and Solar Panel

Choose a mounting location that provides a clear view of the area you wish to monitor and receives ample direct sunlight for the solar panel. Ensure the location is within your Wi-Fi signal range.



Figure 3.1: Free Split Installation with 10FT Extension Cord. The solar panel can be installed separately from the camera for optimal

sunlight exposure.

1. **Camera Placement:** Mount the camera at a height of 2-3 meters (7-10 feet) for optimal detection range and field of view.
2. **Solar Panel Placement:** Position the solar panel in an area that receives at least 4-6 hours of direct sunlight daily. The included 10-foot extension cable allows for flexible placement of the solar panel away from the camera if needed.
3. **Drilling:** Use the mounting bracket as a template to mark drill holes. Drill holes and insert wall plugs if mounting on masonry.
4. **Secure Mounting:** Attach the mounting bracket to the surface using the provided screws. Secure the camera and solar panel to their respective brackets.
5. **Connect Solar Panel:** Connect the solar panel's Type-C cable to the camera's charging port.



Figure 3.2: 6W Solar Charging Panel. The panel charges the built-in 15000mAh high-capacity rechargeable batteries.

4. OPERATION

4.1 Live View

Open the GENBOLT Cam app and select your camera from the device list to access the live video feed. You can view real-time footage from anywhere with an internet connection.

4.2 Pan and Tilt Control

The camera supports 355° horizontal pan and 90° vertical tilt. Use the directional controls within the app's live view interface to adjust the camera's viewing angle remotely. This allows you to cover a wider area without blind spots.



Figure 4.1: 355° Pan 90° Tilt. The 4MP camera covers every corner, eliminating blind spots.

4.3 PIR Human Detection and Alerts

The camera features an advanced Passive Infrared (PIR) sensor that detects human body heat (37°C), minimizing false alarms caused by pets or environmental factors like sunlight. When motion is detected, the camera will:

- Send instant push notifications to your smartphone.

- Automatically record video footage of the event.
- Activate the built-in floodlights (if enabled for Active Lighting Defense).

Adjust PIR sensitivity settings in the app to optimize detection for your environment.



Figure 4.2: Enhanced PIR Detection. The camera wakes up within 1.5 seconds and reduces false alarms caused by sunlight.

Active Lighting Defense

In White Light mode, once alarm triggered at night, floodlights will turn on automatically



Preventing Crime in Advance

Figure 4.3: Active Lighting Defense. When an alarm is triggered at night, floodlights automatically turn on to deter intruders.

4.4 Color Night Vision

The camera provides clear, full-color video even in low-light conditions, thanks to its integrated white LEDs. This feature enhances visibility and detail compared to traditional black-and-white infrared night vision.

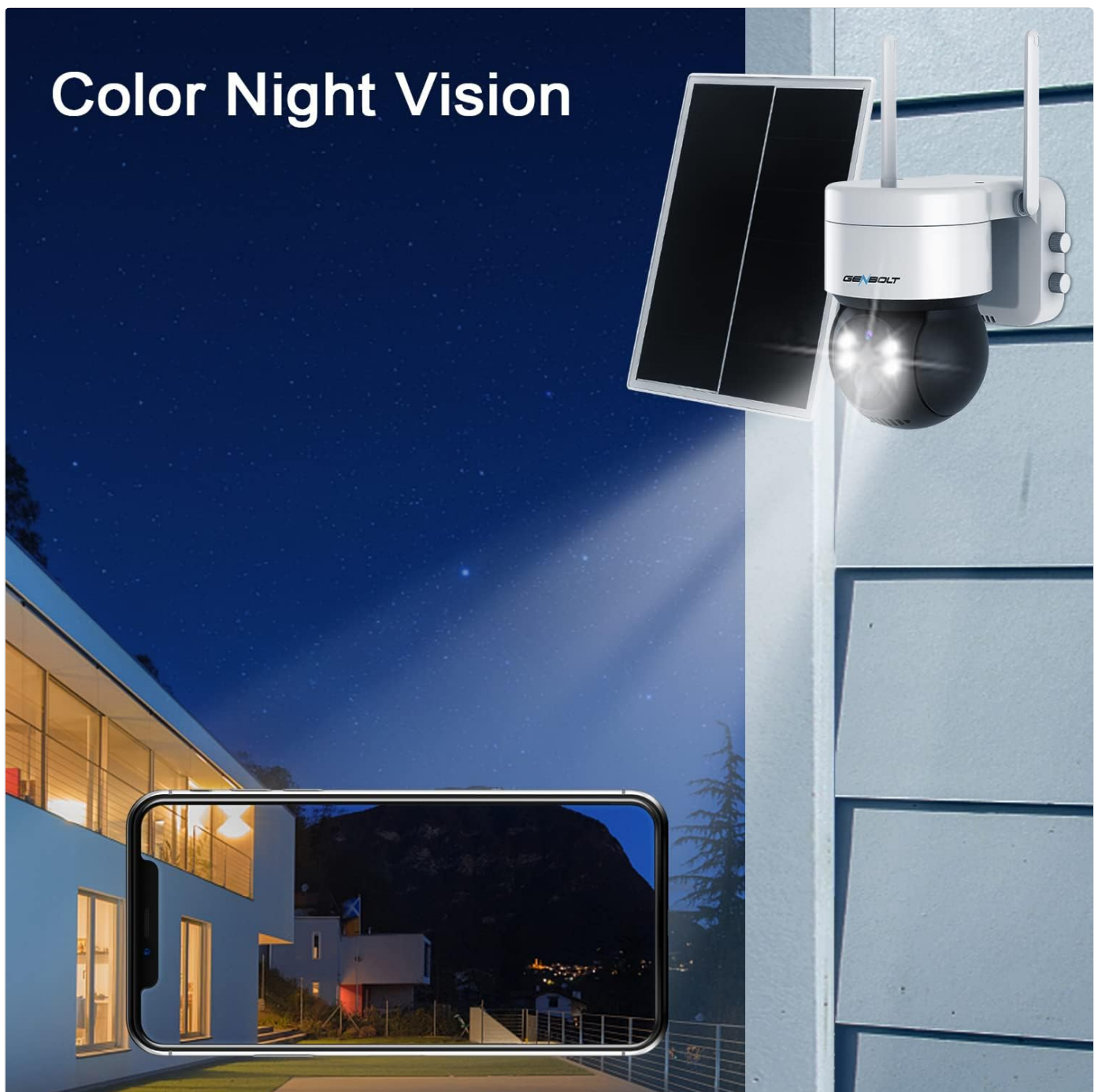


Figure 4.4: Color Night Vision in action.

4.5 Two-Way Audio

Communicate with visitors or deter unwanted guests using the built-in microphone and speaker. Access the two-way audio function through the app's live view interface.



Figure 4.5: Two-Way Audio. Hear and be heard in real-time.

4.6 Recording and Playback

The camera supports local storage via a TF (microSD) card (not included) for continuous or event-triggered recording. It also offers cloud storage options, typically with a free trial period.

- **Local Storage:** Insert a TF card (up to 128GB, Class 10 or higher recommended) into the designated slot on the camera. Recordings will be saved directly to the card.
- **Cloud Storage:** Subscribe to a cloud storage plan via the app for secure, off-site storage of your recordings.

Access recorded footage through the "Playback" section in the GENBOLT Cam app, where you can filter by date and time.



Figure 4.6: App Interface for Playback. Easily review recorded events by date and time.

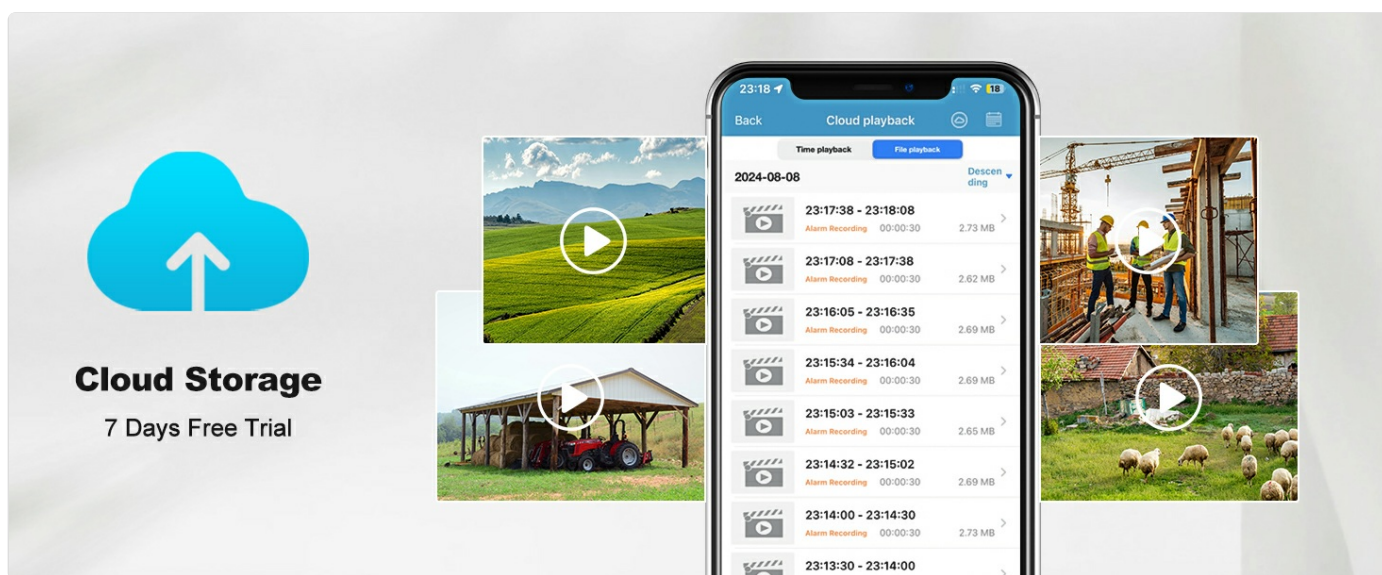


Figure 4.7: Cloud Storage Option. Offers a 7-day free trial for secure video backup.

4.7 Sharing Device Access

You can share access to your camera with family members or trusted individuals through the GENBOLT Cam app. This allows multiple users to view the live feed and receive alerts.

1. In the app, navigate to the camera settings and find the "Share Device" option.
2. Generate a QR code or send an invitation link to the desired user.
3. The invited user must have the GENBOLT Cam app installed and an account created to accept the invitation.



Figure 4.8: Sharing QR Code for Multi-User Access.

4.8 Power Modes (Sleep Mode / 24/7 Mode)

The camera offers different power modes to optimize battery life based on your surveillance needs.

- **Sleep Mode:** The camera remains in a low-power state and only activates upon motion detection or when accessed for live view. This mode conserves battery power.
- **24/7 Mode:** The camera remains continuously active, providing constant monitoring. This mode consumes more power and is best suited for locations with consistent solar charging or where continuous recording is critical.

Select your preferred power mode in the camera settings within the app.

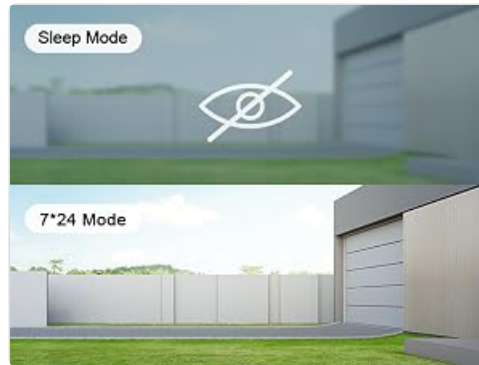


Figure 4.9: Sleep Mode vs. 24/7 Mode.

5. MAINTENANCE

5.1 Cleaning

- Regularly wipe the camera lens and solar panel with a soft, damp cloth to remove dust, dirt, and debris. This ensures clear image quality and efficient solar charging.
- Do not use harsh chemicals or abrasive cleaners.

5.2 Battery Care

- Ensure the solar panel receives adequate sunlight to keep the battery charged.
- In prolonged periods of low sunlight or heavy usage, you may need to manually charge the camera via the Type-C port.
- The camera is designed to operate within a temperature range of 0°C to 45°C. Extreme temperatures can affect battery performance.



Figure 5.1: Weather Resistance. The camera is designed for outdoor use within 0°C to 45°C.

5.3 Firmware Updates

Periodically check the GENBOLT Cam app for available firmware updates. Keeping your camera's firmware up-to-date ensures optimal performance, new features, and security enhancements.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Camera not connecting to Wi-Fi	Incorrect Wi-Fi password; Camera too far from router; 5GHz Wi-Fi network used.	Ensure correct 2.4GHz Wi-Fi password; Move camera closer to router; Ensure router is broadcasting 2.4GHz.
Battery not charging	Insufficient sunlight on solar panel; Dirty solar panel; Faulty cable.	Relocate solar panel to receive more direct sunlight; Clean solar panel; Check cable connection or try manual charging.
No motion detection alerts	PIR sensitivity too low; Detection zone not set correctly; Obstructions.	Increase PIR sensitivity in app; Adjust detection zone; Clear any obstructions in the camera's view.
Poor image quality	Dirty lens; Low light conditions; Weak Wi-Fi signal.	Clean the camera lens; Ensure adequate lighting for color night vision; Improve Wi-Fi signal strength.
Two-way audio not working	Microphone/speaker muted in app; Network issues.	Check audio settings in the app; Ensure stable internet connection.

6.1 Resetting the Camera

If you encounter persistent issues, you may need to reset the camera to its factory settings. Locate the RESET button (refer to Figure 2.2) and press and hold it for approximately 5-10 seconds until you hear a voice prompt indicating the reset is complete. After resetting, you will need to re-add the camera to the app.

7. SPECIFICATIONS

Feature	Detail
Model Number	GB216K
Dimensions (L x W x H)	9 x 13 x 13 cm
Weight	500 g
Video Resolution	4 MP (2K)
Pan/Tilt Range	Horizontal: 355°, Vertical: 90°
Night Vision	Color Night Vision, 10 Feet Range
Power Source	6W Solar Panel, 15000mAh Rechargeable Lithium Metal Battery
Voltage	5 Volts
Connectivity	2.4GHz Wi-Fi
Storage	TF Card (up to 128GB), Cloud Storage

Feature	Detail
Weather Resistance	IP66 Rated, Operating Temperature: 0°C to 45°C

8. WARRANTY AND SUPPORT

GENBOLT is committed to providing high-quality products and excellent customer service.

- **30-Day Money Back Guarantee and Free Exchange:** If you are not satisfied with your purchase, you may be eligible for a refund or exchange within 30 days.
- **1-Year Limited Warranty:** Your GENBOLT camera is covered by a 1-year limited warranty from the date of purchase, protecting against manufacturing defects.
- **24/7 Lifetime Free Technical Support:** For any technical assistance or inquiries, please contact GENBOLT customer support.

For further information or support, please visit the official GENBOLT store or contact their customer service directly.
GENBOLT Store: <https://www.amazon.ca/stores/GENBOLTYourHomeSecurityReliablePartner/page/5D31FC24-1152-4C34-91A0-F3B4FDA7C60F>

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Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

Answered questions about this manual

How do I perform a password reset on my GENBOLT GB216K Solar Wi-Fi Security Camera after a power outage?

If your GENBOLT GB216K camera is rejecting your passwords after a power outage, the most effective solution is to perform a hardware factory reset and set the camera up as new. This will clear...

[Read full answer](#)

Where can I find the battery life status for the GENBOLT GB216K camera, and how do I change the power settings and security light options?

To manage your GENBOLT GB216K camera settings, you must use the GENBOLT Cam app. Here is how to find the information you requested: Battery Life: The battery status is typically displayed as a percentage or...

[Read full answer](#)