

GENBOLT GB216E-K-4G

GENBOLT 3G/4G LTE Solar Security Camera

USER MANUAL

1. INTRODUCTION

Welcome to the user manual for your new GENBOLT 3G/4G LTE Solar Security Camera. This guide provides comprehensive instructions for setting up, operating, and maintaining your camera to ensure optimal performance and security. Please read this manual carefully before using the product.

Key Features:

- **100% Wireless and IP66 Waterproof:** No wires needed, easy outdoor installation. Designed to withstand various weather conditions including sun, rain, and dust.
- **Preferred 4G SIM Card:** The 4G LTE camera allows you to recharge and check 4G data anytime via the app. High-speed, real-time monitoring with no frame drops. Includes a powerful 4G base chip and intelligent algorithm for data saving. SIM card is pre-paired with APN, no configuration needed.
- **24/7 Solar Recharging:** Features low power consumption technology with a powerful 6W mini solar panel and a large capacity 12000mAh rechargeable battery, ensuring the camera stays online all day, with up to 180 days of standby time.
- **Smart PIR and Siren Alarm:** Equipped with a PIR sensor that detects objects around 37°C (98.6°F) and a human detection function that triggers alarms only for humans, effectively reducing false alarms from pets. Instant notifications are sent upon PIR events. You can configure barking sounds or any voice as a siren to deter intruders.
- **Compatibility:** Supports 32/64/128 GB TF cards (FAT32) with intelligent loop recording (with audio) to save memory. Supports multi-device connectivity (smartphone/tablet/PC).

2. PRODUCT OVERVIEW

Package Contents:

- GENBOLT 3G/4G LTE Solar Security Camera
- Solar Panel (6W) with 2-meter Type-C cable
- USB Cable
- Mounting Bracket
- Screws and Wall Plugs
- SIM Card (pre-installed or included)
- User Manual

Camera Components:

Familiarize yourself with the different parts of your GENBOLT camera:

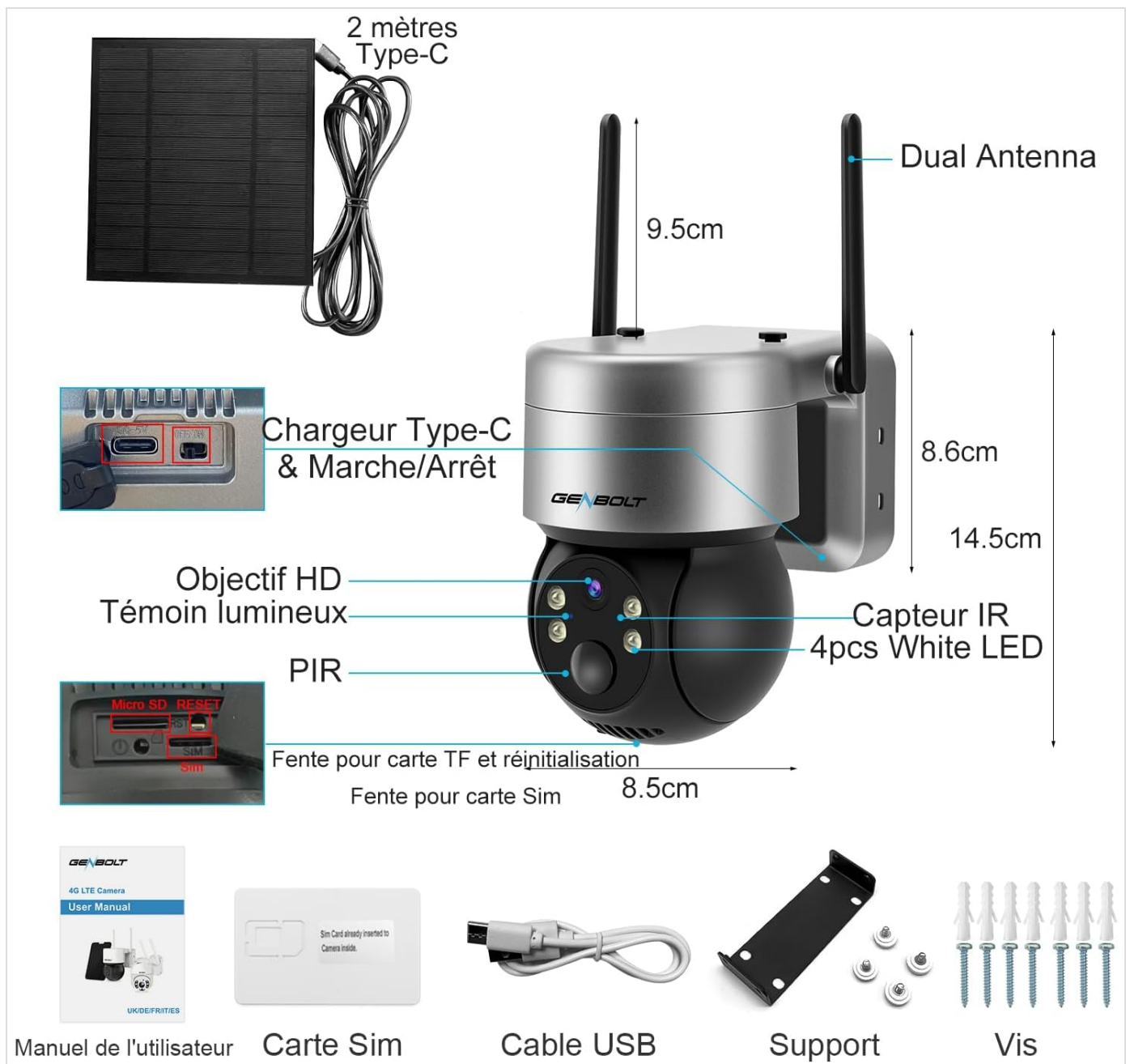


Figure 2.1: Detailed view of the GENBOLT camera and its accessories, including dual antennas, Type-C charging port, HD lens, indicator light, PIR sensor, TF card slot, reset button, SIM card slot, IR sensor, and four white LEDs. Also shown are the USB cable, mounting support, and screws for installation.

- **Dual Antenna:** For stable 3G/4G LTE connectivity.
- **Type-C Charger & On/Off:** Power input and main power switch.
- **HD Lens:** Captures high-definition video.
- **Indicator Light:** Shows camera status.
- **PIR Sensor:** Passive Infrared sensor for motion detection.
- **TF Card Slot & Reset:** For local storage and factory reset.
- **SIM Card Slot:** For inserting the 3G/4G SIM card.
- **IR Sensor & White LEDs:** For infrared and color night vision.

3. SETUP

3.1 Initial Charging

Before first use, fully charge the camera's internal battery using the provided USB cable and a standard 5V/2A power

adapter (not included). Although the solar panel provides continuous charging, an initial full charge ensures the camera is ready for immediate use.



Figure 3.1: The GEBOLT camera connected to its 6W solar panel, illustrating how the solar energy charges the integrated 10500mAh rechargeable battery, ensuring continuous power.

3.2 SIM Card and TF Card Installation

Insert the 3G/4G SIM card into the designated slot. Ensure the camera is powered off before inserting or removing the SIM card. If you plan to use local storage, insert a FAT32 formatted TF (microSD) card (up to 128GB) into the TF card slot.

Carte SIM GENBOLT 4G préférée

-  **Données dédiées à la surveillance**
Haute vitesse/temps réel/aucune perte de trame
-  **Puce de bande de base 4G puissante**
Algorithme intelligent pour sauvegarder les données 4G
-  **La carte SIM a été associée à l'APN**
Pas besoin de configuration
-  **300 Mo de données gratuites**
Essai de 30 jours

Recharger le forfait de données 4G dans l'application

Visualisation à distance 200 Mo/heure, en veille 10 Mo/jour, environ 1 Go/mois

Figure 3.2: Key features of the GENBOLT 4G SIM card, highlighting dedicated data for surveillance, a powerful 4G base chip for data saving, pre-pairing with APN for easy setup, and the ability to recharge 4G data plans directly within the application.

3.3 App Download and Camera Pairing

1. Download the GENBOLT CAM app from your smartphone's app store (iOS or Android).
2. Create an account and log in.
3. Follow the in-app instructions to add your camera. This typically involves scanning a QR code on the camera or manually entering its ID.
4. Ensure your phone is connected to a stable network during the pairing process.

3.4 Mounting the Camera

The camera is designed for wall mounting. Choose a location that provides the desired viewing angle and receives ample sunlight for the solar panel. Ensure the mounting surface is sturdy enough to support the camera.

1. Attach the mounting bracket to the desired location using the provided screws and wall plugs.
2. Secure the camera to the mounting bracket.

3. Adjust the camera's angle to cover the desired area.

4. OPERATING THE CAMERA

4.1 Live View and Pan/Tilt Control

Once connected, open the GENBOLT CAM app to access the live view. You can control the camera's pan (355° horizontal) and tilt (90° vertical) movements directly from the app to monitor a wider area.



Figure 4.1: The GENBOLT camera's 355° pan and 90° tilt functionality, allowing for comprehensive coverage without blind spots. The image also shows a smartphone displaying the live feed, demonstrating remote control capabilities.

4.2 Motion Detection and Alerts

The camera features advanced PIR and human/animal detection to minimize false alarms. When motion is detected, you will receive instant notifications on your smartphone.

Détection PIR améliorée

Comparaison avec une caméra PIR normale, réduction de 95 % des fausses alarmes causées par la lumière du soleil



Figure 4.2: Enhanced PIR detection, demonstrating a 95% reduction in false alarms caused by sunlight compared to normal PIR cameras. The image shows a person within the 120° detection zone, highlighting the camera's ability to accurately identify movement.

4.3 Night Vision Modes

The camera supports both color night vision and infrared night vision. You can switch between modes in the app based on your preference and lighting conditions.

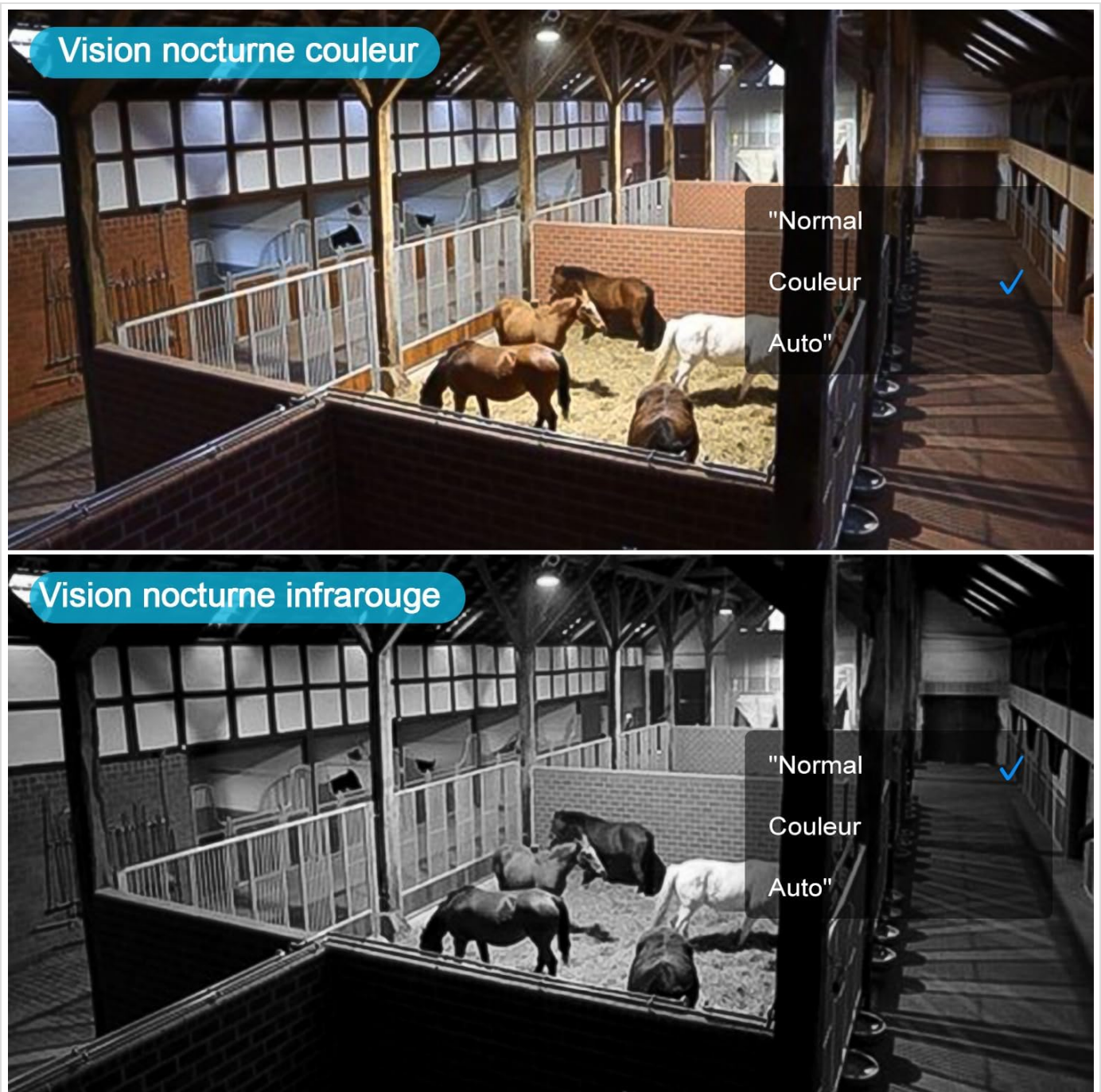


Figure 4.3: A visual comparison between color night vision and infrared night vision, showing how the camera provides clear images in low-light conditions, with the option for full-color detail or traditional black and white infrared.

4.4 Two-Way Audio

Utilize the built-in microphone and speaker for two-way communication. This allows you to speak to visitors or deter unwanted guests remotely.

4.5 Recording and Storage

Recordings are stored on the inserted TF card. The camera supports intelligent loop recording, overwriting the oldest footage when the card is full. You can also access recorded events via the app.

5. MAINTENANCE

5.1 Cleaning

Regularly clean the camera lens and solar panel with a soft, damp cloth to ensure clear images and efficient solar charging. Do not use harsh chemicals or abrasive materials.

5.2 Battery Care

To prolong battery life, ensure the solar panel is positioned to receive maximum sunlight. In prolonged periods of low light or heavy usage, consider manually charging the camera via the Type-C port.

5.3 Firmware Updates

Check the GENBOLT CAM app periodically for firmware updates. Keeping your camera's firmware up-to-date ensures you have the latest features and security enhancements.

6. TROUBLESHOOTING

If you encounter issues with your GENBOLT camera, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Camera not connecting to network	Weak 4G signal; incorrect SIM card installation; SIM card data exhausted.	Check 4G signal strength at installation site. Reinsert SIM card correctly. Recharge SIM card data plan via the app.
Poor image quality	Dirty lens; low light conditions; network bandwidth issues.	Clean the camera lens. Ensure sufficient lighting for optimal image. Check 4G signal strength.
Frequent false alarms	PIR sensitivity too high; environmental factors (e.g., moving branches, strong sunlight).	Adjust PIR sensitivity settings in the app. Enable human detection only. Reposition camera to avoid common false alarm triggers.
Battery not charging	Insufficient sunlight on solar panel; dirty solar panel; faulty solar panel/cable.	Ensure solar panel is in direct sunlight. Clean the solar panel. Contact support if issue persists after manual charging.
No audio or poor audio quality	Microphone/speaker blocked; network issues.	Ensure nothing is obstructing the microphone or speaker. Check network connection.

If the problem persists after trying these solutions, please contact GENBOLT customer support.

7. SPECIFICATIONS

Feature	Specification
Model Name	GB216
Model Number	GB216E-K-4G
Video Recording Resolution	1440p
Effective Video Resolution	3.00 MP
Effective Still Resolution	3 Megapixels
Connectivity Technology	Wireless (3G/4G LTE)

Feature	Specification
Power Source	Solar Powered
Power (Watts)	6 Watts
Battery Composition	Lithium Metal (1 included)
Special Features	Night Vision, Motion Detector
Indoor/Outdoor Use	Outdoor
Mounting Type	Wall Mount
Compatible Devices	Smartphone (iOS, Android)
Dimensions (L x W x H)	22 x 15 x 15 centimeters
Manufacturer	GENBOLT
Country of Origin	China

8. WARRANTY AND SUPPORT

Warranty Information:

Your GENBOLT camera comes with a **one-year manufacturer's warranty**. Additionally, GENBOLT offers a **30-day exchange policy** for free refunds or exchanges.

Customer Support:

For any technical assistance or inquiries, please contact GENBOLT customer support:

- **Email:** eu1@genbolt.com
- **Local Support (US/CA):** +1 (778)807-9710 (Monday to Friday: 7 AM to 10:30 AM PST)

9. PRODUCT VIDEOS

Watch these official product videos for more information on your GENBOLT camera's features and capabilities:

Dutch - LTE 2K Outdoor Security Camera 4G

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This video demonstrates the key features of the GENBOLT 3G/4G LTE Solar Security Camera, including its 355° horizontal and 90° vertical rotation for no dead spots, 6W solar charging with 10500mAh battery, AI human/animal detection, IP66 waterproof rating, automatic light protection, and color night vision up to 60ft. It also highlights suitable locations for installation such as farms, gardens, orchards, construction sites, and warehouses.

GENBOLT 3G/4G Outdoor Surveillance Camera with SIM Card

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This video showcases the GENBOLT 3G/4G LTE Solar Security Camera's main features, including AI data saving, 4X digital zoom, light defense, color night vision, UHD resolution, animal detection, humanoid detection, and two-way audio. It emphasizes the camera's ability to cover all areas without internet, such as farms, gardens, orchards, construction sites, and warehouses, positioning it as a reliable partner for home security.

