

## GENBOLT GB217H-4G

# GENBOLT 3G/4G LTE Cellular Solar Security Camera Instruction Manual

Model: GB217H-4G

## 1. PRODUCT OVERVIEW

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The GENBOLT 3G/4G LTE Cellular Solar Security Camera is a wire-free surveillance solution designed for outdoor use in locations without Wi-Fi access. It features dual lenses for comprehensive coverage, solar charging, and a large capacity battery for extended operation.



Figure 1.1: Overview of the GENBOLT 3G/4G LTE Cellular Solar Security Camera.

## 1.1 Components

The product package includes the following items:

- GENBOLT Dual Lens 4G Cellular Solar Security Camera
- 8W Solar Panel (with 2-meter Type-C cable)
- GENBOLT 4G SIM Card (pre-paired APN)
- 0.7 meter USB Cable
- 1 meter Extension Cable
- Mounting Screws
- User Manual

# 8W Solar Panel

Built-in **12000mAh**

High-capacity rechargeable batteries



Figure 1.2: Included components and their labels.

## 1.2 Key Features

- **100% Wire-Free & Weatherproof:** Designed for easy outdoor installation without power or Ethernet cables. IP66 rated for various weather conditions.
- **Integrated 4G SIM Card:** Comes with a pre-paired GENBOLT 4G SIM card for immediate use, offering high-speed, real-time data with 300MB free data for a 30-day trial.
- **8W Solar Charging & 15600mAh Battery:** Low power consumption technology combined with an 8W solar panel and high-capacity battery provides up to 180 days of standby time.
- **Dual Lens & Dual Screen:** Features an upper fixed bullet camera for wide-angle defense and a PT (Pan/Tilt) dome camera (355° pan, 90° tilt) for comprehensive coverage, allowing simultaneous viewing of two different areas.
- **Cloud Storage & SD Card Option:** Supports MicroSD Card storage (Max 128GB, not included) and offers a free 7-day trial of Cloud storage for encrypted event uploads and easy playback.
- **2.5K Color Night Vision:** Provides high-definition color night vision for clear details even in low-light conditions.



- **Enhanced 5dBi Dual Antenna:** Ensures stable connectivity and reduces video buffering and disconnections.
- **Humanoid Detection:** Intelligent algorithm for accurate human target tracking.
- **Two-Way Audio:** Built-in microphone and speaker for communication.

## 2. SETUP GUIDE

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### 2.1 Initial Charging

Before initial use, fully charge the camera's built-in 15600mAh battery using the provided USB cable and a standard 5V/2A USB power adapter (not included). The charging port is a Type-C port located on the camera unit. A full charge typically takes approximately 8 hours via the solar panel or less via USB.



Figure 2.1: The 8W solar panel provides continuous power to the camera.

### 2.2 SIM Card Installation

The camera operates on a 3G/4G LTE cellular network and requires a SIM card. A GENBOLT 4G SIM card is included and pre-paired for convenience. If using your own SIM card, ensure it is a standard Nano-SIM and



supports the appropriate 3G/4G LTE bands in your region. The SIM card slot is located on the camera body, usually protected by a rubber cover. Insert the SIM card with the gold contacts facing down and the notched corner aligned correctly.

**Preferred GENBOLT 4G SIM Card**

**Surveillance dedicated data**  
High speed/real time/no frame drop

**Powerful 4G baseband chip**  
Intelligent algorithm to save 4G data

**SIM card has been paired with APN** No need to setup

**300mb free data**  
30 days trial

**Refill 4G Data Plan in App**

**Remote viewing 200MB/hour,  
standby 10MB/day, about 1GB/month**

Figure 2.2: The GENBOLT 4G SIM card is optimized for surveillance data.

## 2.3 App Installation and Account Creation

Download the official GENBOLT app from your smartphone's app store (iOS or Android). Follow the on-screen instructions to create an account and add your camera. Scan the QR code on the camera or manual to quickly pair the device.

## 2.4 Mounting the Camera

Choose a suitable outdoor location for mounting. Ensure the solar panel receives adequate direct sunlight throughout the day. Use the provided mounting screws and template to securely attach the camera and solar panel to a wall or other stable surface. The camera supports both wall and ceiling installation.



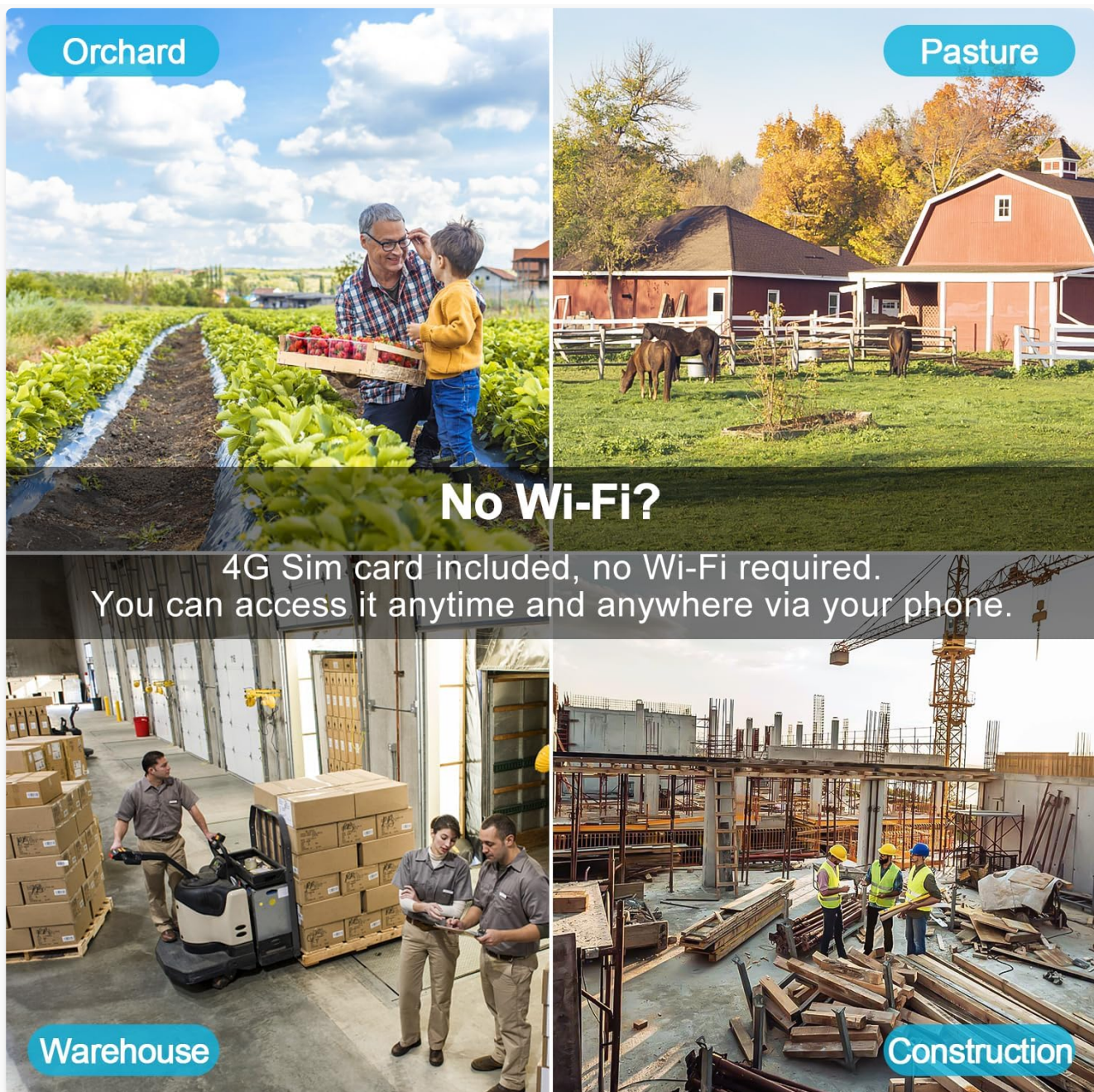


Figure 2.3: The camera is ideal for locations without Wi-Fi, including farms and construction sites.

### 3. OPERATING INSTRUCTIONS

#### 3.1 Dual Lens and Dual View

The camera features two lenses: a fixed wide-angle lens and a pan/tilt lens. This allows you to monitor two different areas simultaneously within the app's dual-screen display. Use the on-screen controls to adjust the pan (355°) and tilt (90°) of the movable lens.



# Dual Lens & Dual View

One camera can monitor two positions

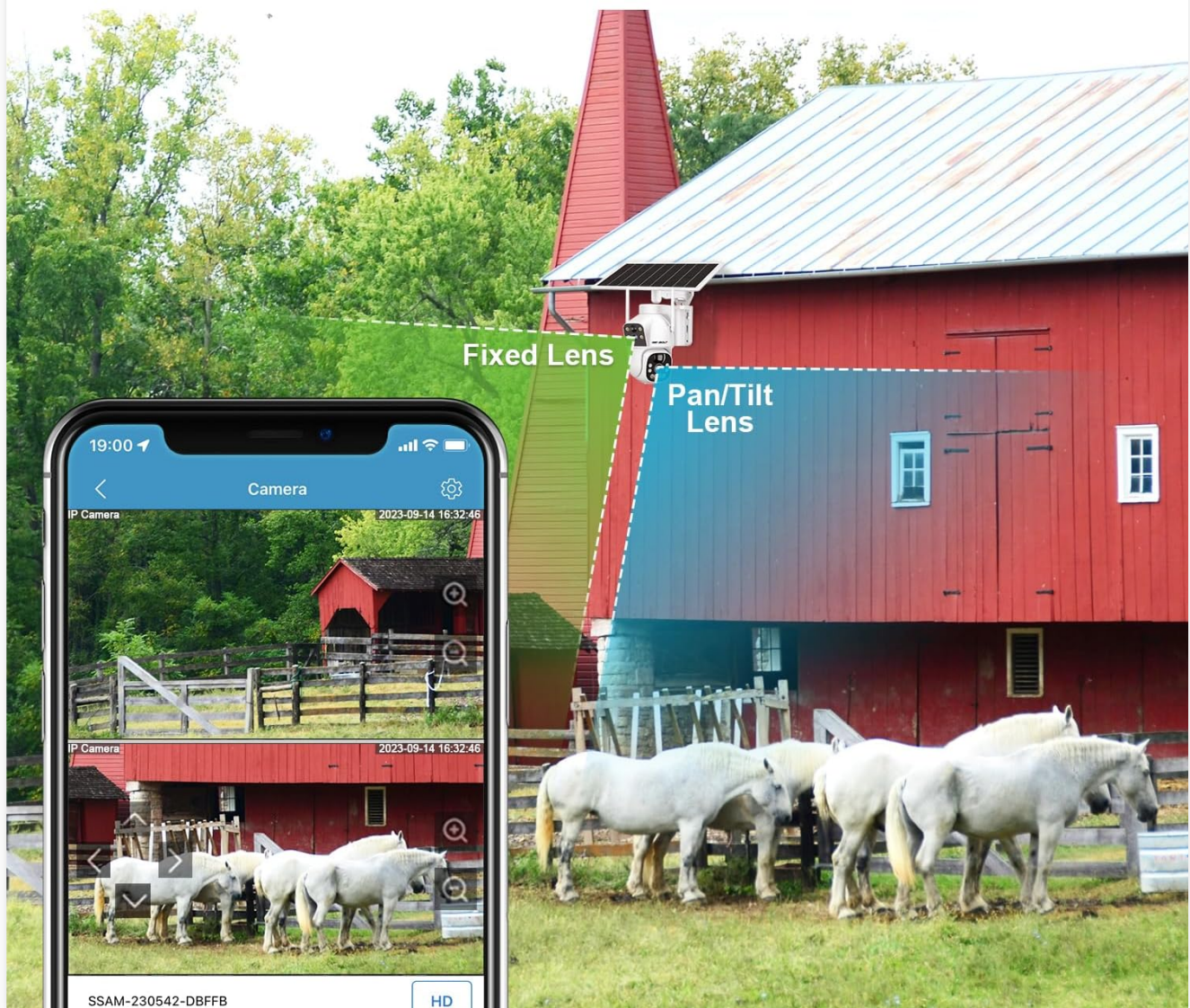


Figure 3.1: Dual lens functionality provides comprehensive coverage.

## 3.2 Night Vision Modes

The camera offers 2.5K color night vision for clear, detailed images in low-light conditions. It also supports infrared (IR) night vision. You can switch between these modes or set it to auto-detect based on ambient light levels within the app settings.

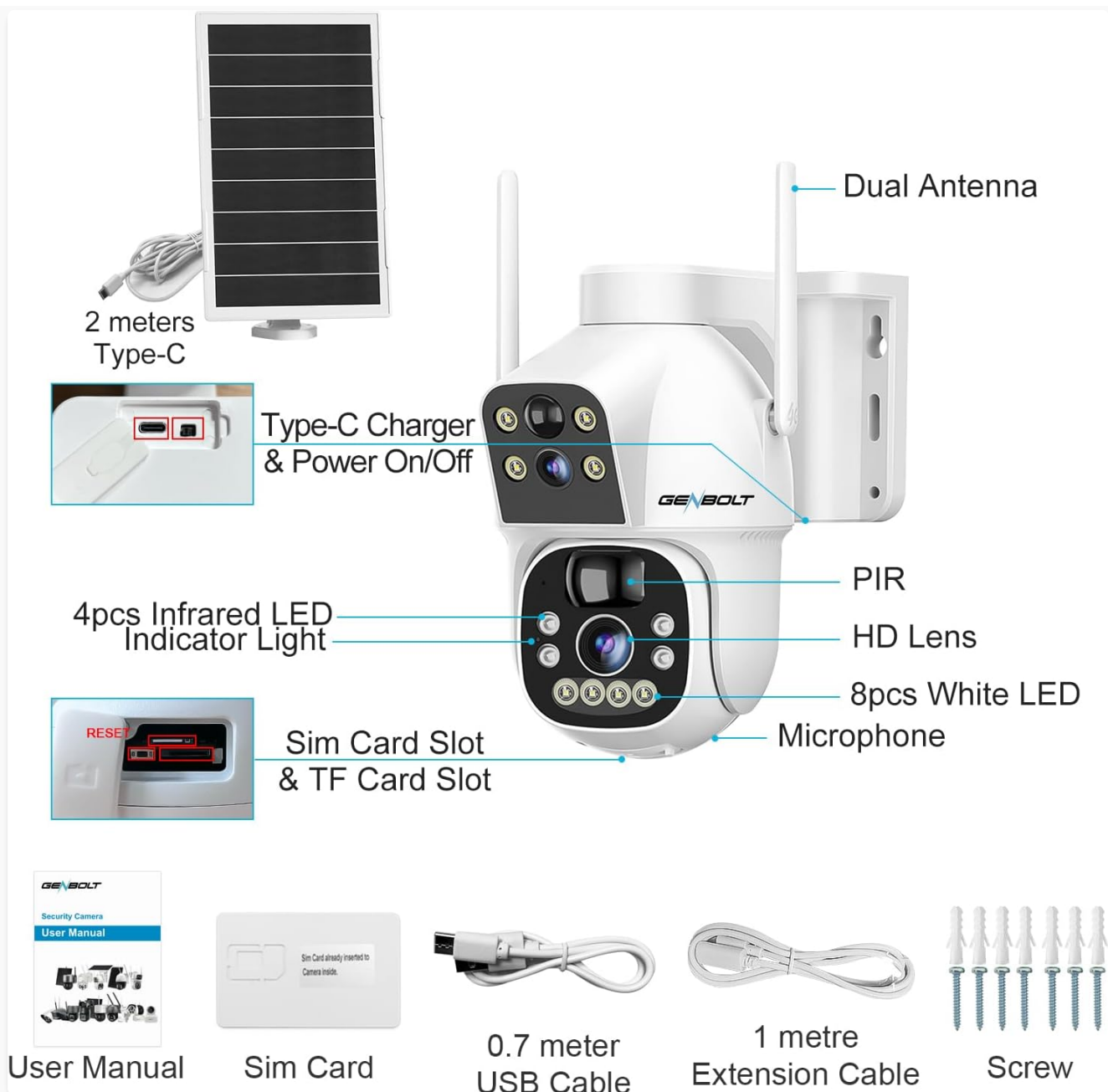


Figure 3.2: The camera provides clear color night vision.

### 3.3 Motion Detection and Humanoid Tracking

The camera is equipped with PIR detection for accurate motion sensing. When motion is detected, the camera can automatically track human targets, ensuring important events are captured. Alerts can be configured through the app.



# Humanoid Intelligent Tracking

Camera will follow human target's path  
when somebody move



Figure 3.3: Humanoid intelligent tracking ensures subjects remain in view.

## 3.4 Two-Way Audio

Utilize the built-in microphone and speaker for two-way communication. This feature allows you to speak to visitors or deter intruders directly through the camera via the app.

## 3.5 Storage Options (Cloud & SD Card)

Recordings can be stored locally on a MicroSD card (up to 128GB, not included) or securely in the cloud. A 7-day free trial of cloud storage is available. Cloud storage provides access to recordings even if the camera is offline or tampered with.

## 3.6 Product Video Demonstration

Your browser does not support the video tag.

Video 3.1: A demonstration of the Dual Lens Solar Camera 4G, showcasing its features and capabilities.

## 4. MAINTENANCE

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### 4.1 Solar Panel Care

To ensure optimal charging efficiency, regularly clean the surface of the solar panel to remove dust, dirt, leaves, or snow. Use a soft, damp cloth. Avoid abrasive cleaners or harsh chemicals that could damage the panel.

### 4.2 Battery Longevity

The camera's built-in battery is designed for long life. To maximize its lifespan, avoid prolonged exposure to extreme temperatures (both hot and cold) when possible. Ensure the solar panel is positioned to receive maximum sunlight to keep the battery sufficiently charged.

## 5. TROUBLESHOOTING

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### 5.1 No Connection/Offline

- Ensure the SIM card is correctly inserted and has an active data plan.
- Check the cellular signal strength in the camera's location via the app.
- Restart the camera by turning it off and on.
- Verify that the camera's battery is charged.

### 5.2 Poor Image Quality

- Clean the camera lenses with a soft, lint-free cloth.
- Ensure there are no obstructions in front of the lenses.
- Check the app settings for video resolution and night vision mode.

### 5.3 Battery Not Charging

- Ensure the solar panel cable is securely connected to the camera.
- Clean the solar panel surface.
- Verify the solar panel's position to ensure it receives direct sunlight for several hours daily.
- Test charging the camera directly via the USB cable.

### 5.4 Motion Detection Issues

- Adjust the motion detection sensitivity in the app.
- Ensure the camera's field of view is clear of excessive movement (e.g., tree branches in strong wind) that could trigger false alerts.
- Verify that humanoid detection is enabled if you only want to detect people.

## 6. SPECIFICATIONS

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Feature	Specification
Model Name	GB217H-4G



Feature	Specification
Indoor/Outdoor Usage	Outdoor
Power Source	Battery Powered (15600mAh), 8W Solar Panel
Connectivity Protocol	3G/4G LTE ONLY (No Wi-Fi)
Video Capture Resolution	1440p (2.5K)
Effective Still Resolution	4 MP
Number of Channels	2 (Dual Lens)
Viewing Angle	355 Degrees (Pan), 90 Degrees (Tilt)
Night Vision Range	25 Meters
Water Resistance Level	IP66 Waterproof
Storage Options	MicroSD Card (Max 128GB), Cloud Storage
Alert Type	PIR Detection
Control Method	App (Android, iOS)
Item Weight	4.53 pounds
Product Dimensions	9 x 13 x 11 inches

## 7. WARRANTY AND SUPPORT


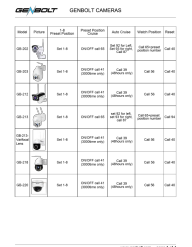


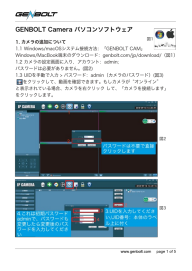

GENBOLT is committed to providing reliable security solutions and excellent customer service.

### 7.1 Warranty Information

- **1-Year Limited Warranty:** Your GENBOLT security camera is covered by a 1-year limited warranty from the date of purchase, covering manufacturing defects.
- **30-Day Money Back Guarantee:** Enjoy a 30-day money-back guarantee and free exchange from the date of purchase.

### 7.2 Technical Support

GENBOLT offers 24/7 lifetime free technical support. If you encounter any issues or have questions regarding your camera, please contact GENBOLT customer service through the contact information provided in the product packaging or on the official GENBOLT website.

	<p><a href="#">GENBOLT -LTE Security Camera System User Manual</a></p> <p>This user manual provides comprehensive instructions for setting up, configuring, and troubleshooting the GENBOLT -LTE Security Camera System, including models GB213-4G and GB203-4G. It covers warranty registration, interface description, app setup, SIM card management, PoE connection, 4G settings, video playback, time settings, camera preview functions, motion and humanoid detection, recording schedules, email alerts, PC software usage, and frequently asked questions.</p>
	<p><a href="#">Genbolt PTZ Camera Model Specifications - GB Series</a></p> <p>Compare features and settings for Genbolt GB-series PTZ cameras, including models GB-202, GB-203, GB-212, GB-213, GB-213-Varifocal Lens, GB-218, and GB-220. This technical specification details preset, cruise, and watch functions.</p>
	<p><a href="#">GENBOLT IP Camera User Manual and Quick Installation Guide</a></p> <p>Comprehensive user manual and quick installation guide for GENBOLT IP Cameras, including models GB209H, GB202, GB203, GB600H1, and GB209. Learn how to set up Wi-Fi, configure motion detection, manage SD card storage, and troubleshoot common issues for optimal security camera performance.</p>
	<p><a href="#">GENBOLT Camera AP Mode Wi-Fi Configuration Guide</a></p> <p>Learn how to configure your GENBOLT camera in AP mode for Wi-Fi connectivity, including steps for phone setup, app integration, and network configuration. This guide covers situations where a LAN port is defective, no network cable is available, or no network port is on the router.</p>
	<p><a href="#">GENBOLT</a></p> <p>GENBOLT                      Wi-Fi                      Windows    macOS</p>
	<p><a href="#">Genbolt Wi-Fi IP Security Camera System User Manual</a></p> <p>This user manual provides comprehensive instructions for setting up and using the Genbolt Wi-Fi IP Security Camera System, including installation, app connection, SD card setup, video playback, and troubleshooting.</p>