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GENBOLT GB213H-4G

GENBOLT 4G LTE Security Camera User Manual

Model: GB213H-4G
Brand: GENBOLT

1. Introduction

This manual provides comprehensive instructions for the installation, operation, and maintenance of your GENBOLT 4G LTE Security Camera. Designed for robust outdoor surveillance, this camera offers advanced features such as 4G LTE connectivity, Power over Ethernet (PoE) support, humanoid detection, auto-tracking, and active siren defense, ensuring reliable security even in locations without Wi-Fi access.

Figure 1.1: GENBOLT 4G LTE Security Camera Overview

2. Product Features

2.1. 3G/4G-LTE Connection & Network Cable

The GENBOLT 4G LTE Security Camera offers flexible connectivity options, supporting both 3G/4G LTE cellular networks and traditional network cable connections. This eliminates the need for Wi-Fi, making it ideal for remote locations such as farms, orchards, warehouses, and construction sites where Wi-Fi access may be unavailable. A SIM card is included for immediate cellular connectivity.

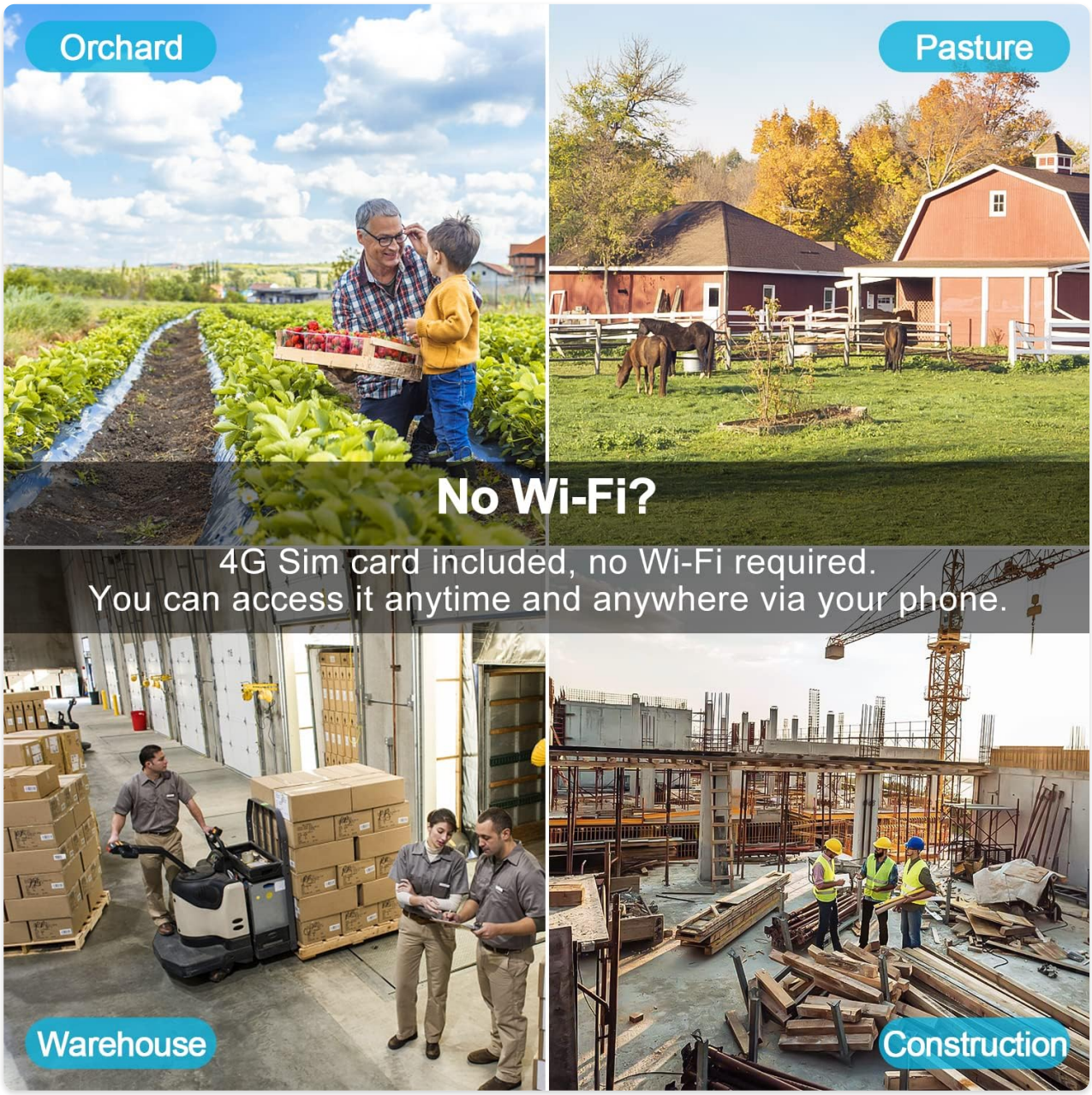

Figure 2.1: Camera operation in areas without Wi-Fi, such as orchards, pastures, warehouses, and construction sites.

2.2. Preferred GENBOLT 4G SIM Card

This camera comes with a GENBOLT 4G SIM card, pre-paired with APN settings for ease of use. Users can manage and refill their 4G data plan directly through the companion app. A 300MB free data trial is included for 30 days, valid for use within the US. The camera utilizes a powerful 4G baseband chip and intelligent algorithms to optimize data usage for surveillance.

Figure 2.2: Features of the Preferred GENBOLT 4G SIM Card, including dedicated data, powerful chip, and app-based data refill.

2.3. Auto Cruise & PoE Installation

The camera supports Power over Ethernet (PoE) technology, allowing both power and data transmission over a single network cable, simplifying installation. It also features an auto-cruise function, enabling users to set multiple preset positions within the app. The camera will automatically cycle through these positions, ensuring comprehensive coverage of desired areas. This feature, combined with 355° horizontal pan and 90° vertical tilt, eliminates blind spots.

Figure 2.3: Benefits of PoE installation, including safety, worry-free setup, and stable network connection.

Figure 2.4: Illustrates the 355° pan and 90° tilt capabilities for comprehensive area coverage.

2.4. Active Siren & Light Defense

For enhanced security, the GENBOLT camera includes an active siren and light defense system. Users can preset customized siren sounds, such as a dog barking, which will activate upon motion detection. Simultaneously, a bright night light will illuminate the area, deterring intruders. An alert is sent to your smartphone, allowing remote access to the camera and real-time monitoring.

Figure 2.5: Depicts the active lighting defense feature, where the camera illuminates and warns potential intruders.

2.5. Humanoid Detection & Auto Tracking

Advanced humanoid motion detection allows for precise monitoring, reducing false alarms. Users can define 1-4 specific detection zones. When a human figure enters the surveillance area, the camera's auto-tracking feature will follow their path, providing detailed footage. The camera offers 4X digital zoom to capture finer details.

Figure 2.6: Shows the camera's ability to detect and automatically track human movement within its field of view.

3. Setup Guide

3.1. Unboxing and Initial Check

Before starting the installation, please verify that all components are present in the package:

- GENBOLT 4G LTE Security Camera
- Power Adapter
- Mounting Screws and Anchors
- GENBOLT 4G SIM Card (pre-installed or separate)
- User Manual (this document)

3.2. SIM Card Installation

If the SIM card is not pre-installed, follow these steps:

1. Locate the SIM card slot on the camera (refer to Figure 3.1).
2. Carefully insert the provided GENBOLT 4G SIM card into the slot until it clicks into place. Ensure the correct orientation.
3. Close the protective cover to ensure water resistance.

3.3. Powering On and Network Connection

Your camera supports two power options: standard DC power or Power over Ethernet (PoE).

- **DC Power:** Connect the provided power adapter to the camera's power port and plug it into a suitable power outlet.
- **PoE (Power over Ethernet):** If using a PoE switch or NVR, connect an Ethernet cable from the PoE device to the camera's Ethernet port. This will provide both power and data connectivity.

Once powered, the camera will initiate its startup sequence. For cellular connection, ensure the SIM card is active and has a data plan. For wired connection, ensure the Ethernet cable is securely connected to a network with internet access.

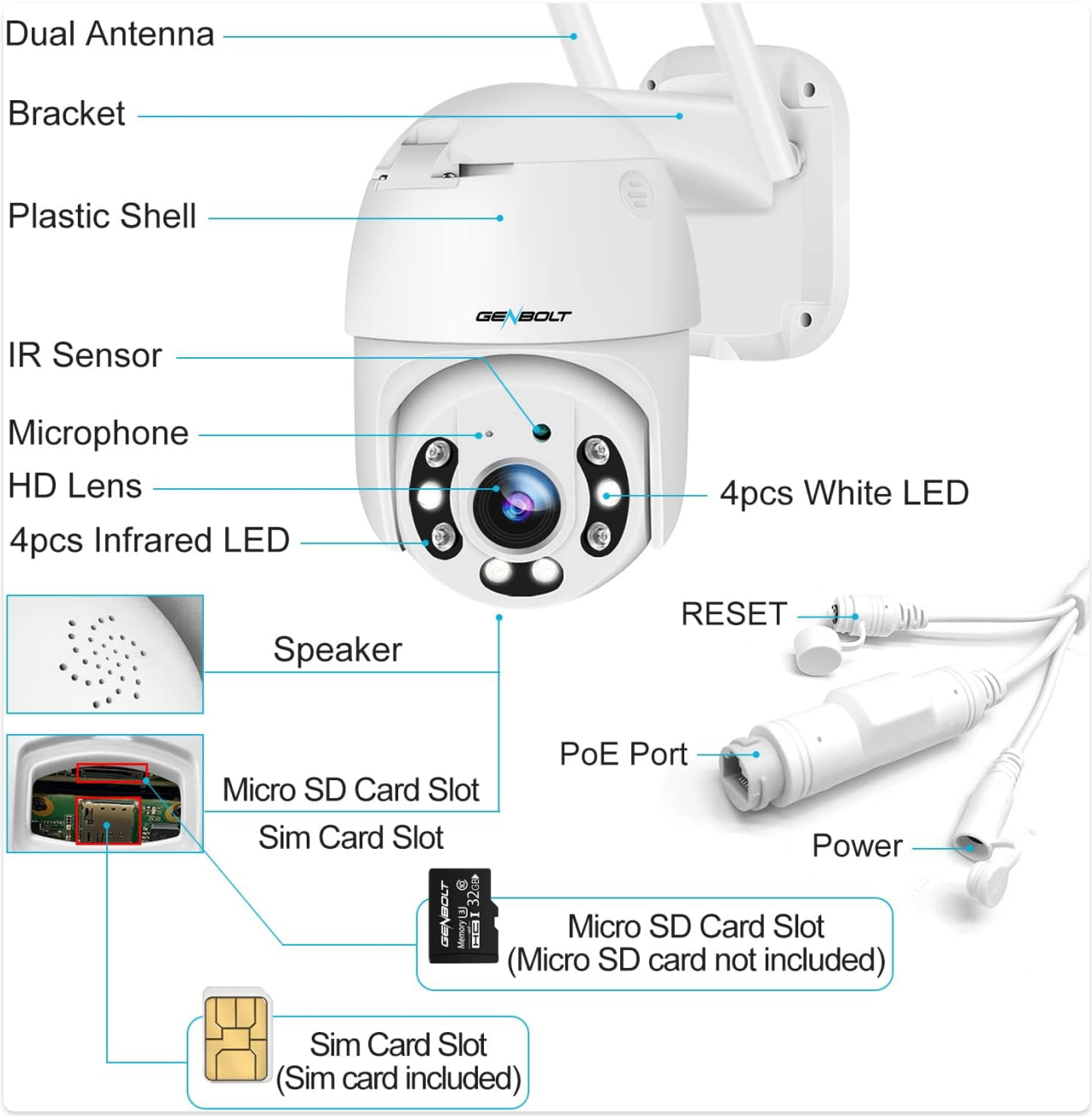

Figure 3.1: Detailed diagram of camera components, including SIM card slot, Micro SD card slot, and PoE port.

Figure 3.2: Detailed diagram of camera components, highlighting the power port and Ethernet cable port.

3.4. App Download and Pairing

To access and control your camera, download the "GENBOLT CAM" app from your smartphone's app store (available for iOS and Android). Follow the in-app instructions to add your camera by scanning the QR code on the device or manually entering its ID. Ensure your phone has an active internet connection during the pairing process.

4. Operating Instructions

4.1. Pan, Tilt, and Zoom Control

From the "GENBOLT CAM" app, you can remotely control the camera's movement. Use the on-screen directional controls to pan (355° horizontally) and tilt (90° vertically) the camera. The 4X digital zoom function

allows you to magnify specific areas of interest for closer inspection.

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Video 4.1: Demonstrates the pan, tilt, and zoom capabilities of the GENBOLT 4G LTE Camera, showcasing its wide coverage and detailed viewing.

4.2. Motion Detection & Alerts

Configure motion detection settings within the app. You can define specific detection zones to minimize false alarms. When motion is detected, the camera can trigger an active siren, illuminate the area with its bright night light, and send instant alerts to your smartphone.

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Video 4.2: Illustrates the motion detection and alert features, including the active siren and light defense system, providing proactive security.

4.3. Two-Way Audio

The camera features a built-in microphone and speaker, enabling two-way audio communication. Use this function through the app to listen in on the camera's surroundings or speak directly through the camera to deter intruders or communicate with visitors.

4.4. Night Vision Modes

The camera supports multiple night vision modes for clear surveillance in low-light conditions:

- **Infrared Night Vision:** Provides clear black and white images in complete darkness up to 20 meters.
- **Color Night Vision:** Utilizes built-in white LEDs to illuminate the area, providing full-color video even at night.
- **Auto Mode:** The camera intelligently switches between infrared and color night vision based on ambient light conditions.

4.5. Recording and Storage

The camera supports local storage via a Micro SD card (up to 128GB, not included). Recordings can be triggered by motion detection or set for continuous recording. You can also access and manage recordings through the "GENBOLT CAM" app.

5. Maintenance

Regular maintenance ensures optimal performance and longevity of your GENBOLT camera:

- **Cleaning:** Gently wipe the camera lens and body with a soft, damp cloth. Avoid using harsh chemicals or abrasive materials that could scratch the surface.
- **Firmware Updates:** Periodically check the "GENBOLT CAM" app for available firmware updates. Keeping your camera's firmware up-to-date ensures access to the latest features and security enhancements.
- **Connection Check:** Regularly inspect all cable connections (power, Ethernet) to ensure they are secure and free from damage.
- **Environmental Protection:** While the camera is IP66 water-resistant, ensure it is installed in a location that minimizes direct exposure to extreme weather conditions where possible, to prolong its lifespan.

6. Troubleshooting

Problem	Possible Cause	Solution
Camera not connecting to 4G.	SIM card not active, no data plan, incorrect APN settings, weak signal.	Ensure SIM card is properly inserted and active. Check data plan status. Verify APN settings in the app. Relocate camera to an area with better cellular signal.
Poor image quality.	Dirty lens, low light conditions, network bandwidth issues.	Clean the camera lens. Ensure adequate lighting for color night vision. Check network connection stability and bandwidth.
Frequent false alarms.	Overly sensitive motion detection, large detection zone, environmental factors (e.g., moving branches).	Adjust motion detection sensitivity in the app. Define specific detection zones to exclude irrelevant areas.
No two-way audio.	Microphone/speaker disabled in app, volume too low, network issues.	Ensure audio functions are enabled and volume is adjusted in the app. Check network connection.

If you encounter issues not listed here or require further assistance, please contact GENBOLT customer support.

7. Specifications

Feature	Detail
Model Name	GB213H-4G
Indoor/Outdoor Usage	Outdoor
Connectivity Protocol	3G/4G LTE & LAN
Power Source	Corded Electric
Video Capture Resolution	1080p
Effective Video Resolution	1080 Pixels
Viewing Angle	355 Degrees (Pan) / 90 Degrees (Tilt)
Night Vision Range	20 Meters
Digital Zoom	4X

Feature	Detail
Material	Plastic Case with Metal Ball
International Protection Rating	IP66 (Water Resistant)
Flash Memory Supported Size Maximum	128 GB (Micro SD Card)
Item Dimensions L x W x H	4.13 x 3.15 x 6.3 inches
Item Weight	2.27 pounds

8. Warranty and Support

GENBOLT is committed to providing high-quality products and excellent customer service. Your GENBOLT 4G LTE Security Camera comes with the following:

- **1-Year Limited Warranty:** Covers manufacturing defects and malfunctions under normal use.
- **30-Day Money Back Guarantee and Free Exchange:** For peace of mind with your purchase.
- **24/7 Lifetime Free Technical Support:** Our dedicated support team is available around the clock to assist you with any questions or issues.

For support, please visit the official GENBOLT store or contact our customer service team directly. Keep your purchase receipt for warranty claims.

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