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VORGUT K8510-BK26

VORGUT K8510-BK26 Solar Home Security Camera System - User Manual

Model: K8510-BK26

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your VORGUT K8510-BK26 Solar Home Security Camera System. This system features a 10-inch LCD monitor NVR, 4MP wireless outdoor cameras, and a pre-installed 500GB HDD, designed for comprehensive home security monitoring. Please read this manual thoroughly before using the product to ensure proper functionality and safety.



Figure 1: VORGUT K8510-BK26 System Components

This image displays the complete VORGUT K8510-BK26 system, including four white bullet-style cameras, four solar panels, a 10-inch white monitor NVR, and a 500GB hard drive.

2. What's in the Box

- 1x Monitor NVR (with pre-installed 500GB HDD)
- 4x Wireless Outdoor Cameras
- 4x Solar Panels
- 1x User Manual
- Power Adapters for NVR and Cameras
- Mounting Screws and Tools

3. Product Overview and Features

The VORGUT K8510-BK26 system is designed for ease of use and reliable surveillance. Key features include:

- **All-In-One 10" Monitor NVR:** Integrated 10-inch LCD monitor with a 10-channel Network Video Recorder (NVR) and a pre-installed 500GB hard drive. Supports up to 10 cameras.
- **Solar Powered & 100% Wire-free Cameras:** Each outdoor camera is equipped with a high-capacity built-in battery and an efficient solar panel for continuous power, eliminating the need for power cables.
- **4MP Ultra HD Video:** Cameras provide enhanced 4MP (2560 x 1440P) resolution for clear images, offering twice the detail of 1080p cameras.
- **Color Night Vision:** Advanced white light and IR LEDs provide clear night vision up to 10 meters, including color night vision capabilities.
- **Human Motion Detection (PIR):** Utilizes a sensitive PIR sensor to intelligently detect human movement, reducing false alarms from environmental factors.
- **Smart Alarm & APP Push:** When motion is detected, the camera records, triggers an alarm, and sends push notifications to your mobile application.
- **Multiple Recording Modes:** Supports 24/7 continuous recording (when battery level is above 80% or connected to power adapter) and motion detection recording.
- **Smart Playback:** Remotely access and review recorded footage via the app with intelligent event filtering.
- **Real-Time Two-Way Talk:** Communicate with visitors or deter intruders using the built-in microphone and speaker.
- **IP66 Waterproof:** Cameras are designed for outdoor use and can withstand various weather conditions.
- **Easy Installation:** Wireless design simplifies setup, requiring no drilling for cables.



Figure 2: Plug & Play WiFi Camera System Overview

This image illustrates the wireless connectivity of the system, showing a camera powered by a solar panel and wirelessly communicating with the 10-inch monitor NVR. It highlights the 2.4G/5GHz WiFi support and 8500mAh battery capacity.

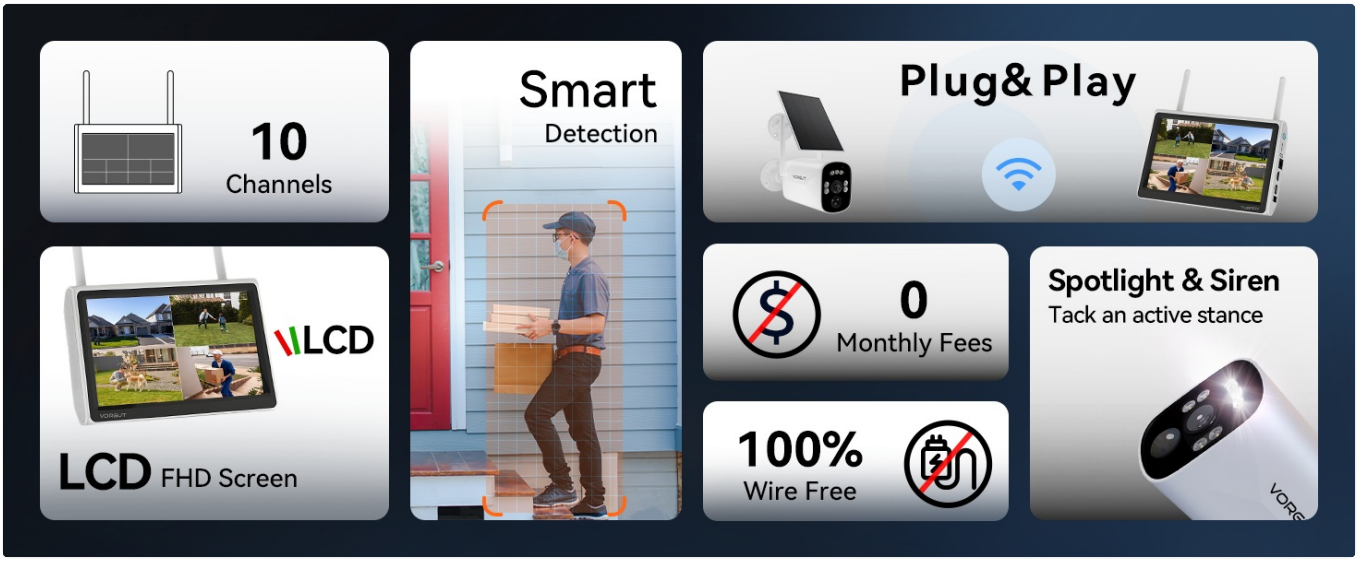


Figure 3: System Feature Summary

This infographic summarizes key features such as 10-channel support, smart detection, plug-and-play functionality, spotlight and siren, 100% wire-free operation, no monthly fees, LCD FHD screen, and a pre-installed 500GB HDD.

4. Setup Guide

4.1 Initial NVR Setup

1. **Power On NVR:** Connect the NVR to a power outlet using the provided power adapter. The NVR will boot up and display the system interface on the integrated 10-inch monitor.
2. **Network Connection:** Ensure your NVR is connected to a 2.4G Wi-Fi network for remote access and app functionality.
3. **Camera Pairing:** The solar cameras and NVR are pre-paired at the factory. Once the NVR is powered on, the cameras should automatically connect and display video feeds.

4.2 Camera and Solar Panel Installation

The cameras are 100% wire-free for power, relying on their built-in batteries and solar panels.

1. **Choose Location:** Select a location for each camera that provides the desired viewing angle and ensures the solar panel receives adequate direct sunlight throughout the day.
2. **Mount Camera:** Use the provided mounting screws to securely attach the camera to a wall or other stable surface.
3. **Mount Solar Panel:** Mount the solar panel in a position where it can capture maximum sunlight. The solar panel comes with a 3-meter cable and is 360° adjustable for optimal positioning.
4. **Connect Solar Panel:** Connect the solar panel cable to the charging port on the camera. Ensure the connection is secure.
5. **Activate Camera:** Locate the On/Off button near the charging port on the camera and turn it ON.



Figure 4: Solar Powered Camera Installation

This image shows a VORGUT camera installed outdoors, connected to its solar panel, emphasizing its ability to be powered by solar energy year-round.



Figure 5: Easy Setup and System Expansion

This diagram illustrates the simple plug-and-play setup, showing the NVR connected to power and 2.4G WiFi, and a camera connected to its solar panel. It also demonstrates the system's expandability to connect up to 10 cameras.



Figure 6: True Wireless Solar Power

This image highlights the true wireless nature of the solar-powered camera, featuring a 3-meter solar cable and a 360° adjustable solar panel for flexible installation.

5. Operating Instructions

5.1 Viewing Live Feed

Once the NVR and cameras are set up, the live video feeds from all connected cameras will be displayed on the 10-inch monitor. You can also view the live feed remotely via the mobile application.

5.2 Mobile Application Access

Download the official VORGUT mobile application from your device's app store. Follow the in-app instructions to add your NVR system. This allows you to:

- View live camera feeds from anywhere.
- Receive instant alarm notifications.
- Review recorded footage.
- Utilize two-way talk functionality.
- Adjust camera settings and privacy zones.



Figure 7: Remote Live View on Mobile

This image shows a smartphone displaying a live video feed from a VORGUT camera, demonstrating remote monitoring capabilities.



Figure 8: Multi-User Access

This image illustrates that multiple users can access and monitor the camera feeds simultaneously through their mobile devices.

6. Recording Modes and Playback

6.1 Recording Modes

The system offers flexible recording options to suit your needs:

- **Motion Detection Recording:** Records only when human motion is detected, conserving storage space and battery life. This is the recommended mode for solar-powered cameras.
- **24/7 Continuous Recording:** Provides uninterrupted recording. For this mode, it is recommended that the camera's battery level stays above 80% or the camera is connected to a continuous power adapter.



Figure 9: Ample Storage and Recording Modes

This image highlights the pre-installed 500GB HDD and illustrates the recommended recording modes: motion detection for solar cameras and 24/7 recording for cameras with constant power.



Figure 10: 24/7 Continuous Recording Requirement

This image displays the NVR interface, indicating that 24/7 continuous recording is only active if the camera's battery level remains above 80% or if a power adapter is used.

6.2 Smart Playback

The mobile application allows for smart playback of recorded footage. You can easily locate important events using intelligent filtering and a user-friendly timeline.

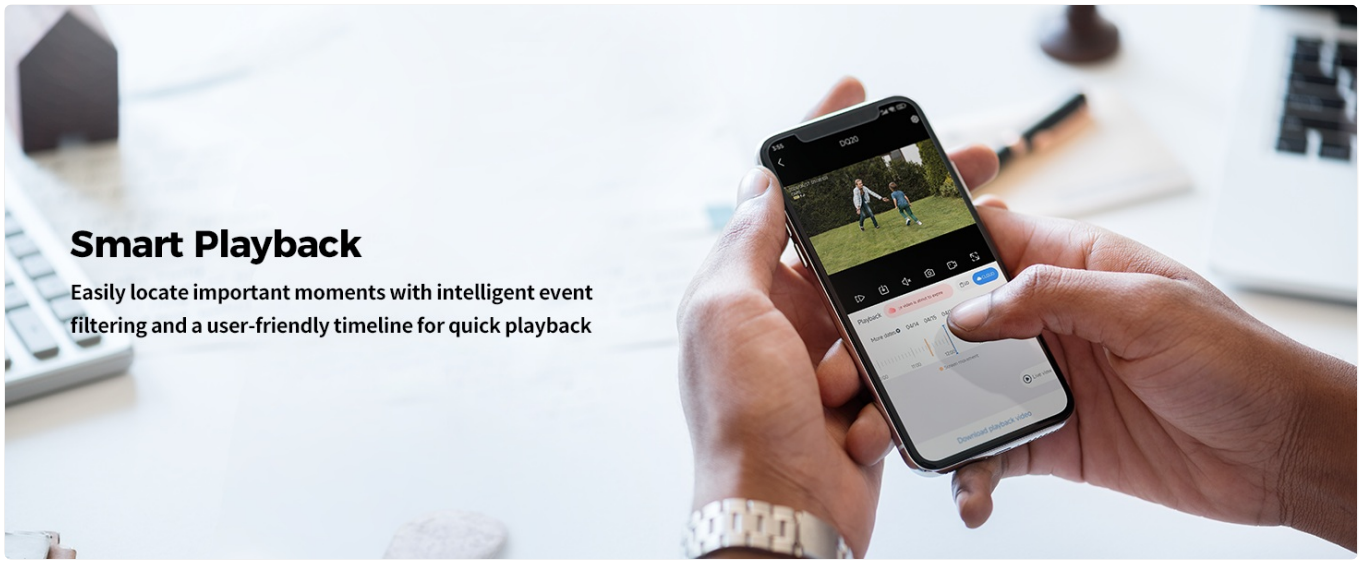


Figure 11: Smart Playback Interface

This image shows a user interacting with the mobile app's playback feature, demonstrating how to navigate and review recorded events efficiently.

6.3 Storage Options

Your system comes with a pre-installed 500GB HDD. Additional storage options include:

- **NVR HDD Playback:** Supports up to 6 TB (2.5 inches) for extended local storage.
- **SD Card Storage:** Cameras support local storage via SD card (up to 128GB, not included).
- **Cloud Storage:** Optional cloud storage is available via subscription for off-site backup.



Figure 12: Multiple Storage Methods

This image illustrates the various storage methods available: NVR HDD (up to 6TB), SD card (up to 128GB), and optional cloud storage.

7. Motion Detection and Alarms

The VORGUT system employs advanced PIR (Passive Infrared) human motion detection to accurately identify human shapes and minimize false alarms.

- **Smart Detection:** The system differentiates between human movement and other environmental factors like flying insects or falling leaves.
- **Instant Alerts:** Upon detection, the camera initiates recording and sends immediate push notifications to your mobile application.
- **Spotlight & Siren:** The cameras are equipped with a spotlight and siren to actively deter intruders when suspicious activity is detected.

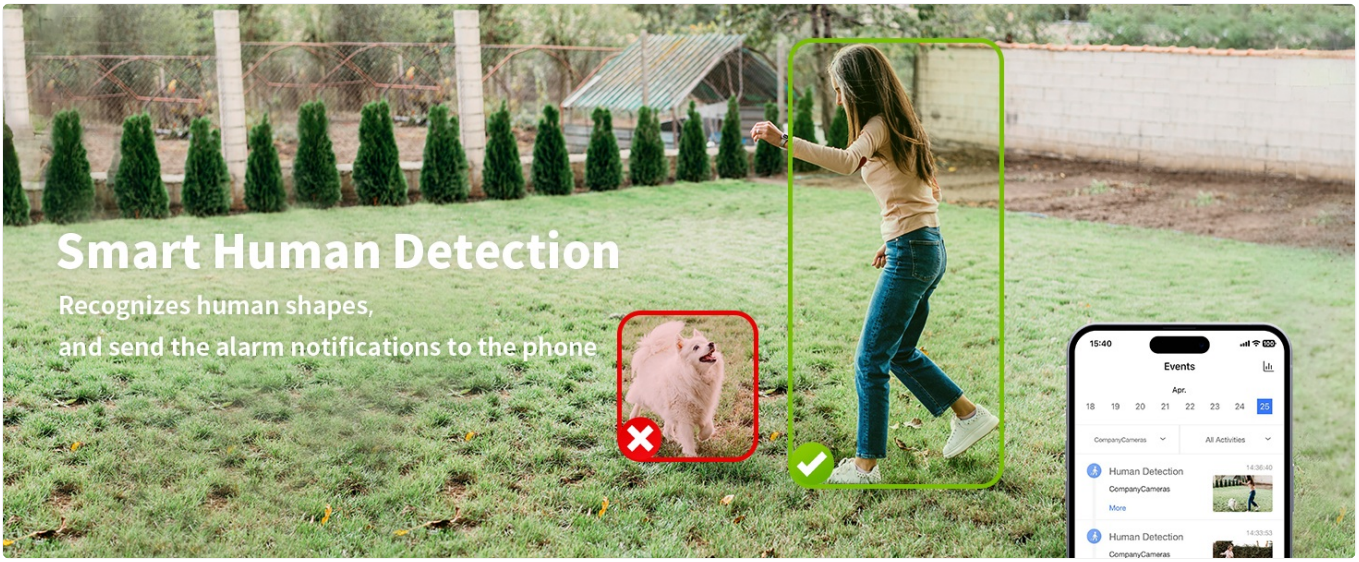


Figure 13: Smart Human Detection

This image demonstrates the system's ability to recognize human shapes, sending alerts for people while ignoring non-human movements like pets.

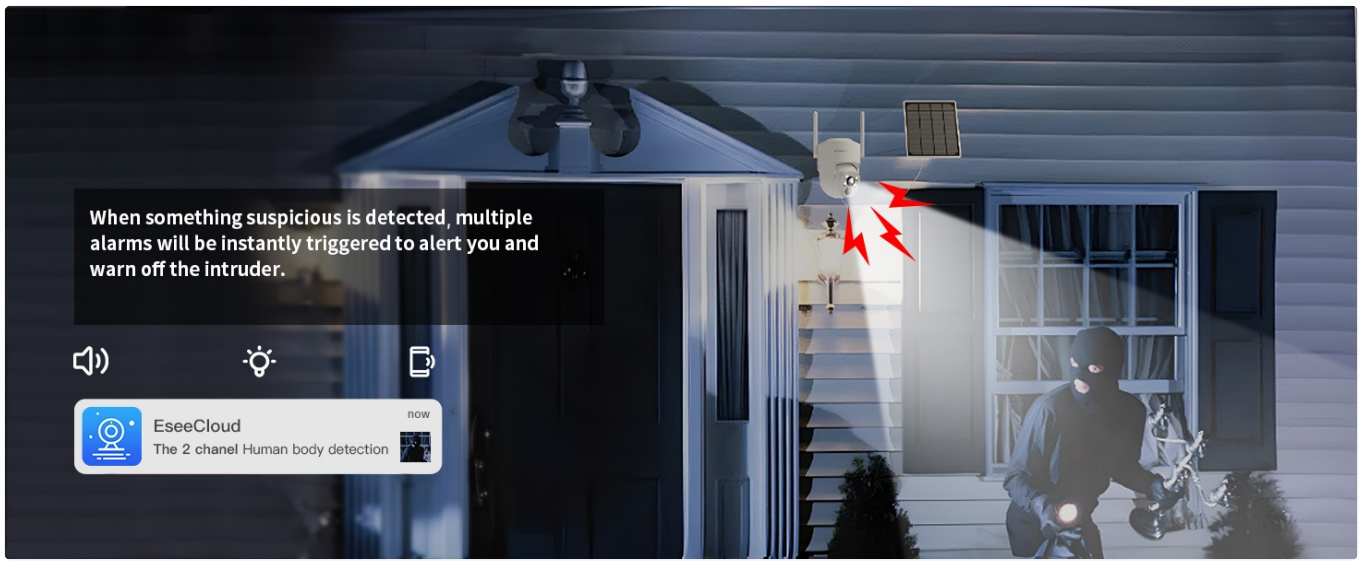


Figure 14: Active Deterrence with Spotlight and Siren

This image depicts the camera's spotlight and siren activating to alert and warn off an intruder when suspicious activity is detected.

7.1 Customizing Surveillance Areas

You can customize your surveillance by focusing on priority areas and setting privacy zones.

- **Priority Areas:** Select specific areas within the camera's view for heightened attention and monitoring.
- **Privacy Zones:** Adjust up to 4 privacy zones to mask specific areas you do not wish to monitor or record.

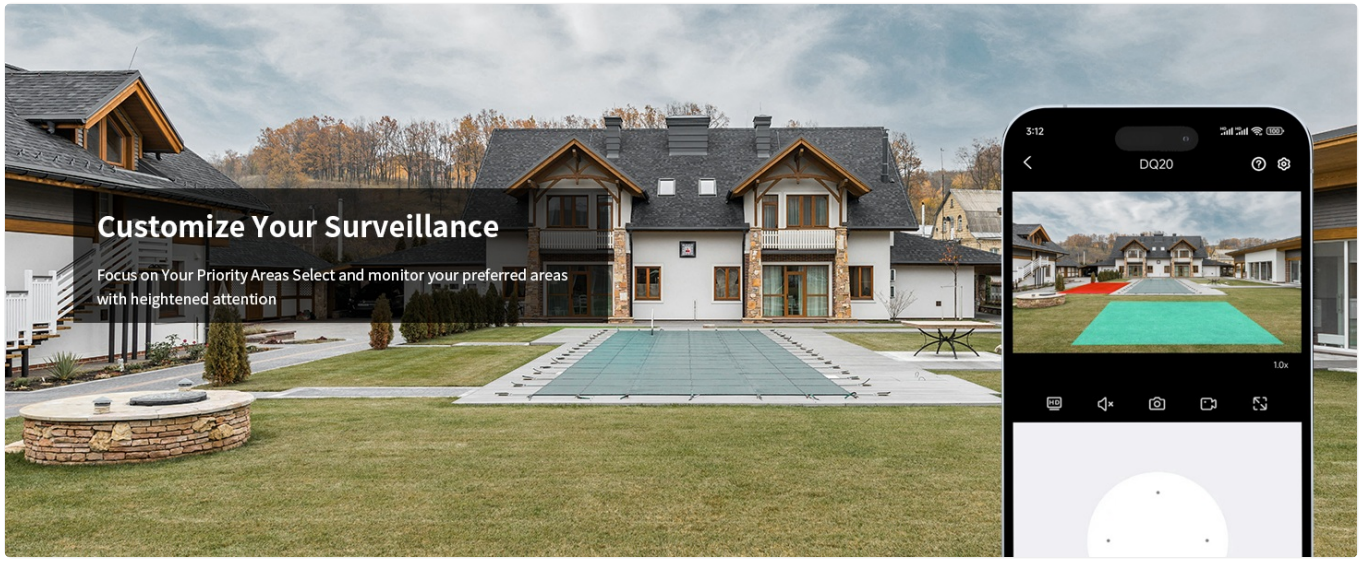


Figure 15: Customize Surveillance Areas

This image shows the mobile application interface allowing users to define and monitor specific priority areas within the camera's field of view.

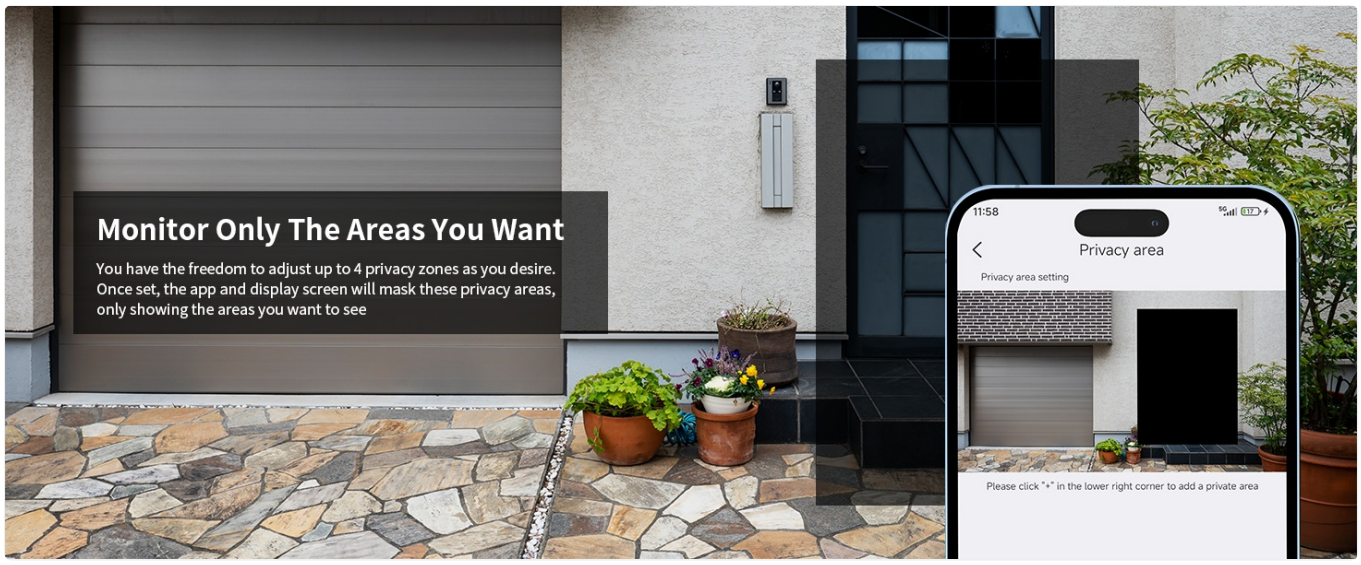


Figure 16: Privacy Zone Configuration

This image illustrates the mobile app's privacy area setting, allowing users to define up to four zones that will be masked from monitoring.

8. Two-Way Talk

Each camera is equipped with a microphone and speaker, enabling real-time two-way audio communication. This feature allows you to:

- Speak to visitors at your door.
- Communicate with delivery personnel.
- Warn off suspicious individuals.



Figure 17: Real-Time Two-Way Talk

This image shows a delivery person at a door, with speech bubbles illustrating the two-way communication feature of the VORGUT camera system.

9. Waterproof Rating

The VORGUT outdoor cameras are rated IP66 waterproof, ensuring reliable operation in various weather conditions, including rain, snow, and dust.



Figure 18: IP66 Waterproof Design

This image shows a VORGUT camera enduring water spray, highlighting its IP66 waterproof rating for reliable outdoor use in harsh weather.

10. Maintenance

- **Clean Lenses:** Regularly clean camera lenses with a soft, damp cloth to ensure clear image quality.
- **Solar Panel Cleaning:** Keep solar panels free of dust, dirt, and debris to maximize charging efficiency.
- **Battery Monitoring:** Monitor camera battery levels via the app, especially during prolonged periods of low sunlight.
- **Firmware Updates:** Check for and install any available firmware updates for the NVR and cameras through the mobile application to ensure optimal performance and security.
- **HDD Health:** Periodically check the health of the 500GB HDD through the NVR settings to prevent data loss.

11. Troubleshooting

Problem	Possible Cause	Solution
No video feed on NVR monitor.	Camera not powered on, out of range, or not paired.	Ensure camera is ON and solar panel is charging. Check camera's proximity to NVR. Re-pair camera if necessary (refer to app instructions).
Poor image quality.	Dirty lens, low light, or network interference.	Clean camera lens. Ensure adequate lighting. Check Wi-Fi signal strength.
Camera battery drains quickly.	Insufficient sunlight for solar panel, excessive motion events, or continuous recording enabled without sufficient charge.	Relocate solar panel for more direct sunlight. Reduce motion detection sensitivity. Use motion detection recording mode. Ensure 24/7 recording is only used with consistent power.
No mobile app notifications.	App permissions, NVR network issue, or notification settings.	Check app notification permissions on your phone. Ensure NVR is connected to 2.4G Wi-Fi. Verify notification settings within the VORGUT app.
Two-way talk audio is low.	Volume settings or environmental noise.	Adjust volume settings in the app. Ensure microphone and speaker are not obstructed.

12. Specifications

Feature	Detail
Brand	VORGUT
Model Number	K8510-BK26
Connectivity Technology	Wireless (2.4G/5GHz WiFi)
Video Capture Resolution	4MP (2560 x 1440P)
NVR Monitor Size	10 inches
Number of Channels	10
Pre-installed Storage	500 GB HDD
Max NVR Storage Capacity	Up to 6 TB (2.5 inches)
Camera SD Card Support	Up to 128GB (not included)
Power Source	Battery Powered / Corded Electric / Solar Powered
Motion Detection	PIR Human Motion Detection
Night Vision	Color Night Vision, IR LED (up to 10 meters)
Waterproof Rating	IP66
Recording Modes	Motion Detection, 24/7 Continuous
Item Dimensions (L x W x H)	12 x 10 x 9 inches

Feature	Detail
Item Weight	8.73 pounds

13. Warranty and Support

The VORGUT K8510-BK26 Solar Home Security Camera System comes with a 5-year warranty, as indicated in the product title. VORGUT is committed to customer satisfaction and provides:

- **After-Sale Support:** Dedicated assistance for any issues or questions you may have.
- **Fast Response:** Prompt replies to customer inquiries.
- **Needs-Based Approach:** Solutions tailored to your specific requirements.
- **Lifetime Tech Assistance:** Ongoing technical support for the lifespan of your product.

For support, please refer to the contact information provided with your product packaging or visit the official VORGUT website.

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