

## Defender NS8B6A-1T

# Defender Sentinel 4K 8CH PoE Security Camera System

Model: NS8B6A-1T

Brand: Defender

## INTRODUCTION

This manual provides essential instructions for the installation, operation, and maintenance of your Defender Sentinel 4K 8CH PoE Security Camera System. This system includes a Network Video Recorder (NVR) and 6 metal outdoor surveillance cameras, designed for robust security monitoring. Key features include 4K Ultra HD resolution, AI-powered human detection, color night vision, and active deterrence with blue/red flashing lights. The system operates with the Defender Empower App for remote access and control.

## WHAT'S IN THE BOX

Your Defender Sentinel Security Camera System package includes:

- Full Kit (NVR, 6 Cameras, Cables, Power Adapter, Mouse, Mounting Hardware)

## SETUP

The Defender Sentinel system is designed for a DIY setup. Follow these steps for initial installation:

1. **NVR Placement:** Position the NVR in a secure, dry location near your internet router and a power outlet.
2. **Camera Mounting:** Mount the IP66-rated cameras in desired outdoor locations. Ensure a clear line of sight and optimal coverage. The cameras are designed to withstand extreme weather conditions.
3. **PoE Connection:** Connect each camera to the NVR using the provided Ethernet cables. Power over Ethernet (PoE) technology simplifies installation by providing both power and video signal through a single cable.
4. **NVR to Display:** Connect the NVR to a monitor or TV using an HDMI or VGA cable to view the live feed and configure settings.
5. **Network Connection:** Connect the NVR to your router via an Ethernet cable for internet access,

enabling remote viewing via the Empower App.

6. **Empower App Setup:** Download the Defender Empower App on your smartphone (iOS/Android). Follow the in-app instructions to add your NVR system.

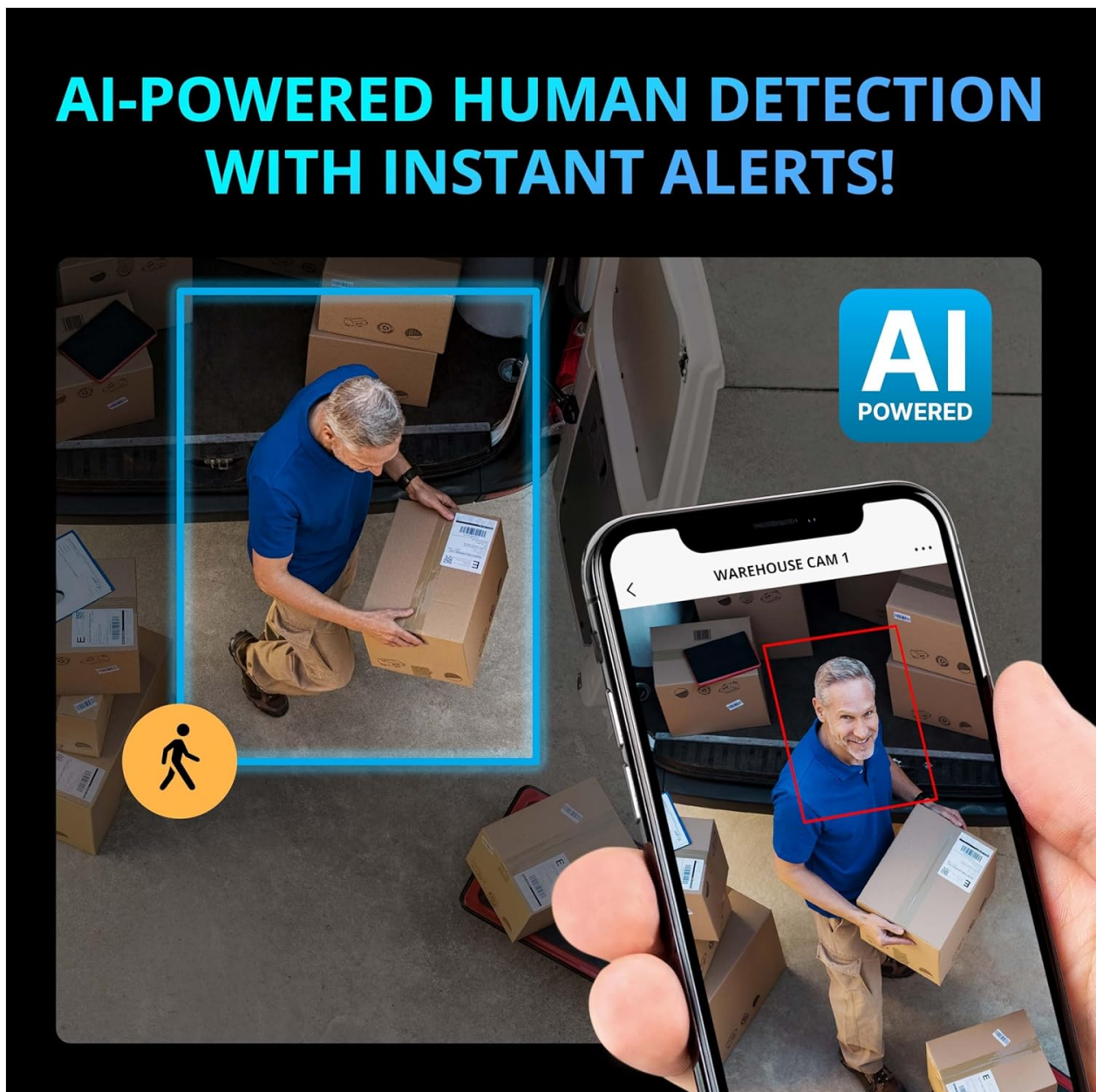


Image: Overview of the Defender Sentinel NVR and security cameras, illustrating the system components.



Image: The Defender Sentinel NVR unit displayed with six connected cameras, ready for installation.

## OPERATING INSTRUCTIONS

### AI-Powered Smart Human Detection

The system's advanced AI identifies human movement, reducing false alarms. When human motion is detected, the system sends immediate alerts to your preferred notification method (e.g., via the Empower App).

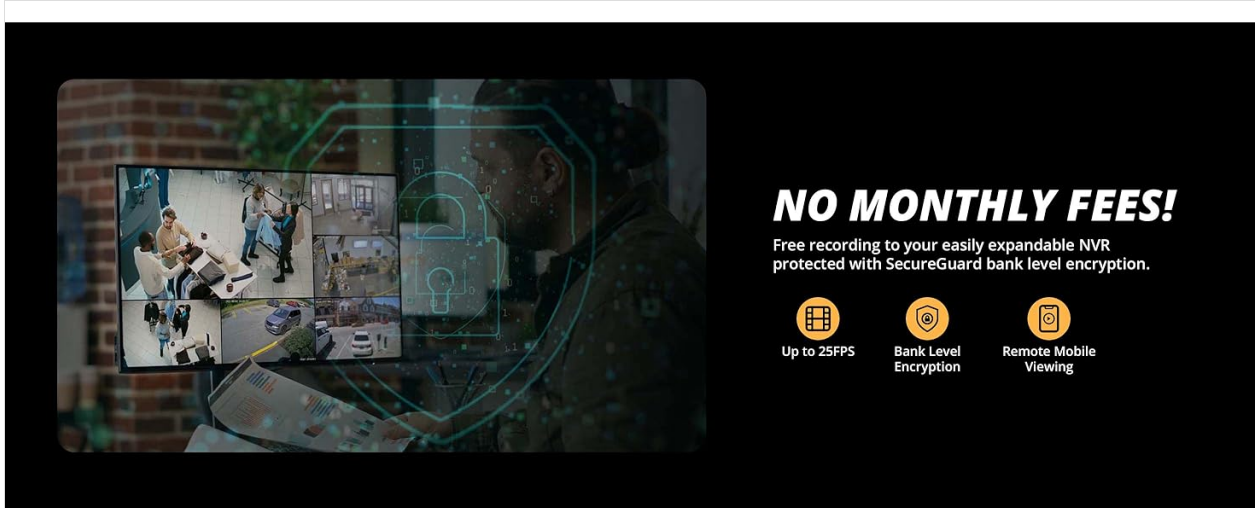


Image: A person handling packages, with the AI detection system highlighting human presence on a smartphone screen, demonstrating instant alerts.

### Flashing Blue-Red Light Deterrence

Upon motion detection, the cameras activate high-intensity blue and red flashing lights. This visual deterrent is designed to discourage potential intruders and serves as an active security measure.



Image: A security camera with active blue and red flashing lights, deterring an individual in a dark outdoor setting.

### 4K ClearVu with Color Night Vision

The system provides 4K Ultra HD resolution for clear and detailed footage. Equipped with color night vision, it captures high-quality video up to 100 feet in low-light conditions, enhanced by a built-in LED spotlight.





Image: A split view demonstrating the superior clarity of 4K Ultra HD video compared to 1080p, showing a person in a warehouse setting.

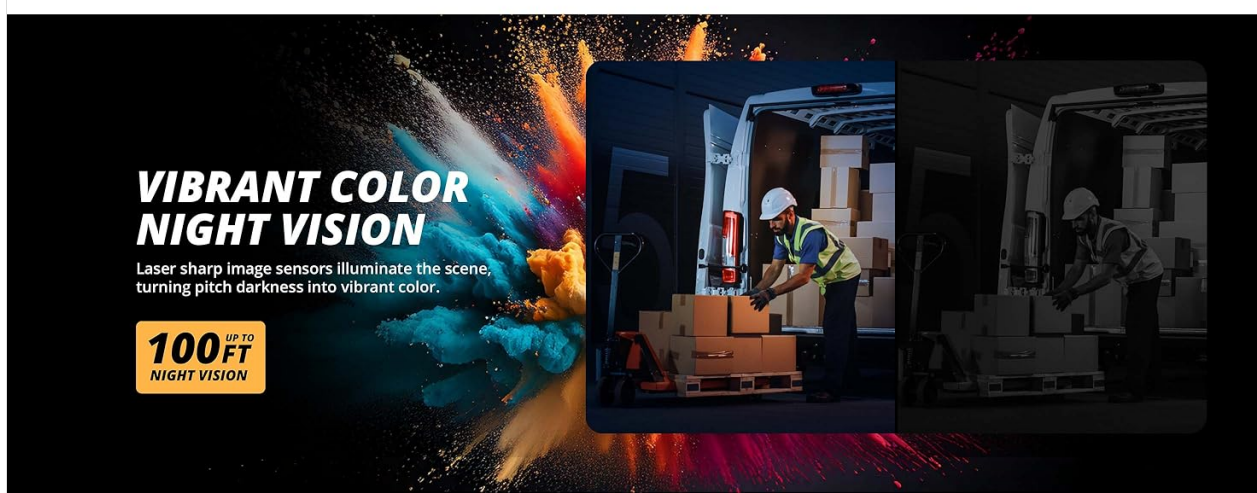


Image: A comparison of daytime and color night vision footage, showing a person loading boxes into a van, highlighting the system's ability to capture vibrant colors in low light.

## Mobile & Web-Based Viewing (Empower App)

Access live camera feeds, receive notifications, and review recorded footage from anywhere using the Defender Empower App on your smartphone or through a web browser. The system offers free recording to the NVR with bank-level encryption.

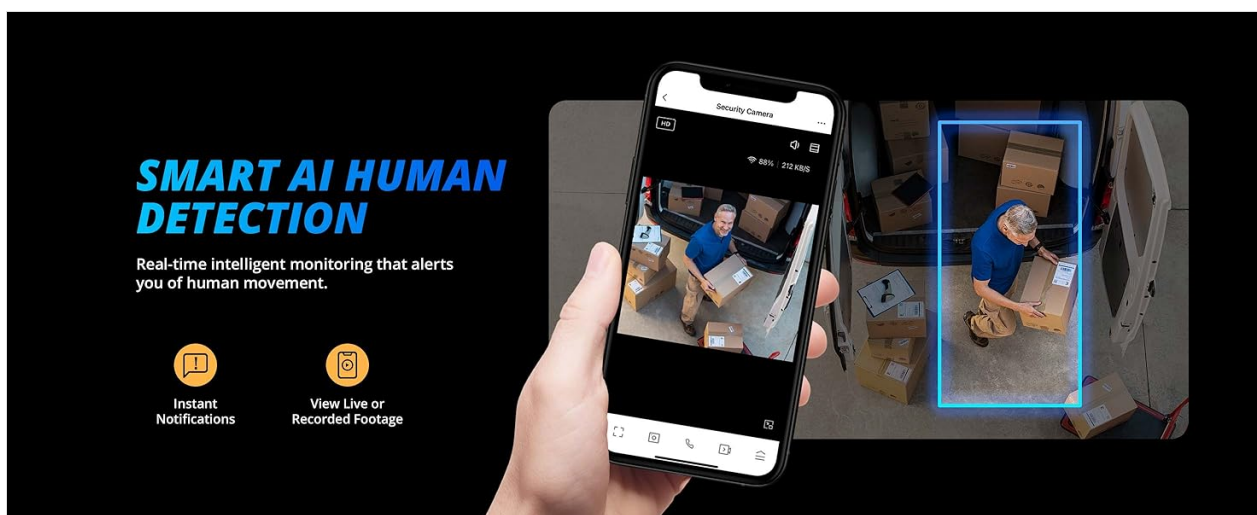


Image: A display showing multiple camera feeds, alongside a smartphone screen demonstrating the Empower App's live view,

notifications, and playback features.

## Sharp Audio Recording

The cameras are equipped with ultra-high-sensitivity microphones to capture audio with minimal delay, providing an additional layer of surveillance detail.

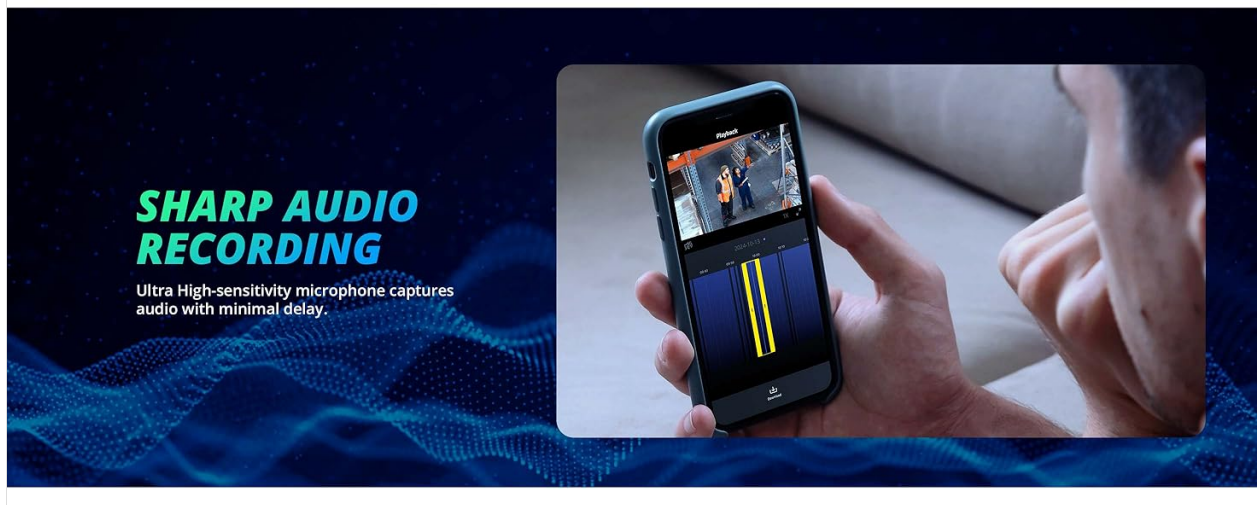


Image: A person viewing a security camera playback on a smartphone, with an audio waveform visible, indicating the system's audio recording capability.

## AI Smart Encoding

Intelligent storage optimization reduces file sizes without compromising image quality, maximizing the 1TB HDD storage capacity.



Image: The NVR unit with various surveillance scenes floating above it, representing the intelligent storage optimization provided by AI Smart Encoding.

## MAINTENANCE

- **Camera Cleaning:** Regularly clean camera lenses with a soft, damp cloth to ensure clear image quality. Avoid abrasive cleaners.
- **Connection Check:** Periodically inspect all cable connections for wear or damage, especially for outdoor cameras, to ensure continuous operation.
- **Hard Drive Management:** The 1TB HDD provides ample storage. The system typically overwrites the oldest footage when full. You can configure recording settings (e.g., continuous, motion-activated) via

the NVR interface or Empower App.

- **Firmware Updates:** Check the Defender website or Empower App for available firmware updates to ensure optimal performance and security.

## TROUBLESHOOTING

### No Video Display

- Ensure the NVR is powered on and connected to a display.
- Verify all camera PoE connections to the NVR are secure.
- Check the power adapter for the NVR.

### No Remote Viewing via Empower App

- Confirm the NVR is connected to your internet router.
- Ensure your smartphone has an active internet connection.
- Verify the NVR is properly added and online within the Empower App.

### False Motion Detections

- Adjust the AI human detection sensitivity settings in the NVR or Empower App.
- Ensure cameras are not pointed at areas with constant, non-human motion (e.g., swaying trees, busy roads).

### Poor Night Vision Quality

- Clean the camera lens to remove dirt or obstructions.
- Ensure there are no reflective surfaces close to the camera that could cause IR glare.

## SPECIFICATIONS

Brand	Defender
Model Number	NS8B6A-1T
Connectivity Technology	Ethernet Cable (PoE)
Video Capture Resolution	4K (3840 × 2160)
Special Features	AI-Powered, Audio & Video Streaming, Night Vision, In-App & Phone Alerts
Number of Channels	8
Memory Storage Capacity	1 TB
Color	White
Power Source	Power over Ethernet
Item Dimensions (L x W x H)	16.14 x 8.86 x 11.42 inches

Operating System Compatibility	IOS/Android
Compatible Devices	Smartphones, Tablets, Laptops, Computers
Low Light Technology	IR and Color Night Vision
Night Vision Range	100 Feet
Frame Rate	25FPS
Total USB Ports	2
Lens Type	Wide Angle
Video Input	RJ45
Viewing Angle	109 Degrees
Item Weight	2.43 pounds
UPC	842751007149

## WARRANTY INFORMATION

This Defender product is covered by a limited manufacturer's warranty. Please refer to the official Defender website or your purchase documentation for specific warranty terms, conditions, and registration details. Keep your proof of purchase for warranty claims.

## SUPPORT

For further assistance, technical support, or to access additional resources, please visit the official Defender support website. You may find FAQs, video tutorials, and contact information for customer service there.