

Swann NVR8-8580

Swann 4K Ultra HD NVR Security Camera System User Manual

Brand: Swann | **Model:** NVR8-8580

1. INTRODUCTION AND SYSTEM OVERVIEW

The Swann 4K Ultra HD NVR Security Camera System provides advanced surveillance for your home or business. This comprehensive package includes an 8-channel Network Video Recorder (NVR) with a 2TB Hard Disk Drive (HDD) and six 5MP bullet IP cameras, upscaled to 4K resolution. Designed for both indoor and outdoor use, the system features Power over Ethernet (PoE) for simplified installation, Color Night Vision, True Detect heat and motion sensing, and smart integration with voice assistants.

This manual provides detailed instructions for setting up, operating, and maintaining your security system to ensure optimal performance and peace of mind.



Figure 1: Overview of the Swann 4K Ultra HD NVR Security Camera System components.

2. SETUP AND INSTALLATION

2.1 Unboxing and Component Check

Before beginning installation, carefully unbox all components and verify that all items listed in the "What's in the Box?" section are present. This system includes all necessary cables and mounting hardware.

What's in the Box?



Figure 2: Contents of the Swann 4K NVR Security System box.

2.2 NVR Placement

Place the NVR in a secure, dry location away from direct sunlight and extreme temperatures. Ensure adequate ventilation around the unit. Avoid placing heavy objects directly on the NVR to prevent damage.

2.3 Camera Installation

The 5MP bullet IP cameras are designed for both indoor and outdoor use, featuring IP66 weatherproof housing. Select

strategic locations that provide optimal viewing angles and coverage. Use the provided mounting screws and plugs to securely attach the cameras. The PoE (Power over Ethernet) design simplifies wiring, as a single Cat5e Ethernet cable provides both power and video transmission.

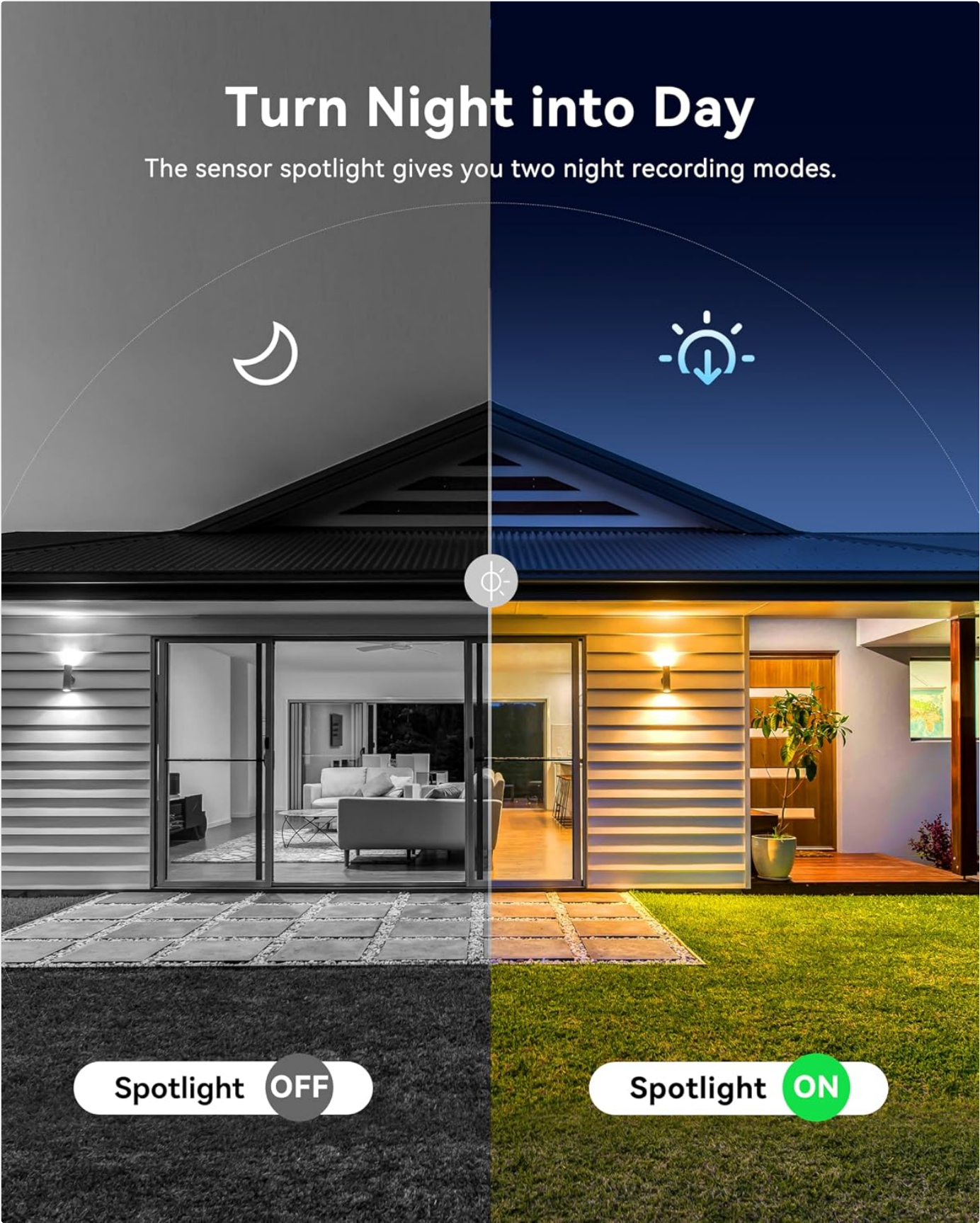


Figure 3: Detailed view of the Swann bullet camera features.

IP66 Weatherproof Housing



-22°F | -30°C

131°F | 55°C



Figure 4: Swann camera demonstrating IP66 weatherproof housing for outdoor use.

2.4 Connecting the System

1. Connect the cameras to the NVR's PoE ports using the provided Cat5e Ethernet cables.
2. Connect the NVR to your monitor via the HDMI cable for local viewing.
3. Connect the NVR to your network router using an Ethernet cable for remote access.
4. Plug in the NVR power adapter to power on the system.

Warning light illuminated
when triggered

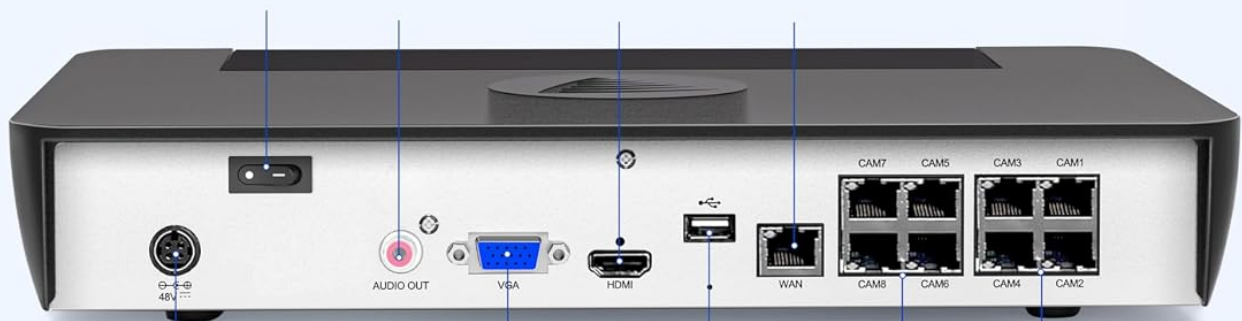
80° Lens wide angle view
Microphone

Color video image sensor

True Detect™ PIR Heat
& Motion Sensor



On/Off Audio Out HDMI Port WAN Port



Power Input

VGA Port

USB Port

Camera PoE Ports

Figure 5: Rear panel of the Swann NVR with port labels.

2.5 Initial Setup and App Configuration

Follow the on-screen prompts on your connected monitor for the initial NVR setup. Download the Swann Security App on your smartphone or tablet. Scan the QR code on the NVR or product packaging to easily add your system to the app for remote viewing and control.

Speak to See

Use your voice to live stream on any Hey Google or Alexa device with a screen.



Figure 6: Swann Security App interface across multiple devices.

3. OPERATING YOUR SYSTEM

3.1 Continuous Monitoring and Storage

The system provides 24/7 continuous monitoring and recording. The NVR comes with a built-in 2TB HDD, expandable up to 6TB, ensuring ample storage for your video footage.

Continuous Monitoring 24/7



Built-in
2TB HDD



Up to
6TB



Figure 7: Continuous monitoring and storage capabilities.

3.2 4K Ultra HD Video Quality

Experience superior clarity with 4K Ultra HD video resolution. The 5MP cameras are upscaled to 4K, capturing intricate details for enhanced surveillance.

Excellent 4K UHD Images



Figure 8: Example of excellent 4K UHD image quality.

3.3 Color Night Vision and True Detect

The cameras feature Color Night Vision, providing clear, full-color footage up to 32ft/10m in low light conditions with sensor light, and up to 130ft/40m in total darkness in black and white. True Detect technology utilizes heat and motion sensing to accurately identify significant activity, such as people and cars, reducing false alarms triggered by minor movements like swaying branches.

PIR Heat & Motion Detection

With Swann's True Detect, warm objects like people & cars can trigger the light, recording.



Figure 9: Demonstration of Color Night Vision with spotlight on/off.



Figure 10: True Detect heat and motion sensing in action.

3.4 Smart Home Integration

The system is compatible with Hey Google and Alexa. Use voice commands to view live footage on compatible smart displays, enhancing convenience and accessibility.

Your browser does not support the video tag.

Video 1: Comparison of 4K vs 1080P security camera system footage, demonstrating clarity differences.

Your browser does not support the video tag.

Video 2: Demonstration of True Detect Heat Sensing Technology and its integration with the Swann Security app.

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Video 3: An overview of the Swann Master-Series NVR Security system, highlighting its features and capabilities.

4. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your Swann security system.

- **Camera Lens Cleaning:** Periodically clean camera lenses with a soft, damp cloth to remove dust, dirt, or water spots that may obscure the view.
- **Connection Check:** Ensure all cable connections (Ethernet, HDMI, power) are secure and free from damage.
- **Software Updates:** Regularly check for and install firmware updates for your NVR and the Swann Security App to benefit from the latest features and security enhancements.
- **NVR Ventilation:** Ensure the NVR has adequate airflow and is not obstructed by objects to prevent overheating.

5. TROUBLESHOOTING

If you encounter issues with your Swann security system, refer to the following common troubleshooting steps:

Problem	Possible Cause / Solution
No video feed from camera	• Check the Ethernet cable connection between the camera and NVR. • Ensure the NVR is powered on and functioning. • Verify the camera is receiving power via PoE.

Problem	Possible Cause / Solution
Poor image quality	• Clean the camera lens. • Ensure the camera is properly focused (if applicable). • Check network bandwidth if streaming remotely.
False motion alerts	• Adjust the sensitivity settings for True Detect. • Configure customizable monitored zones to exclude areas with frequent non-threatening movement (e.g., swaying trees).
No audio recording	• Ensure audio recording is enabled in the NVR settings. • For optimal audio, set the camera frame rate to 20 frames per second (fps) or higher in settings.
App crashes or connectivity issues	• Ensure your Swann Security App is updated to the latest version. • Check your internet connection and NVR's network status. • Restart the app and/or your mobile device.
Power outage concerns	• Consider connecting the NVR to an Uninterruptible Power Supply (UPS) to maintain operation during brief power interruptions and allow for proper shutdown. • Ensure surge protection is used for all power connections.

For further assistance, please refer to the official Swann User Guide (PDF) available online or contact Swann customer support.

6. SPECIFICATIONS

Feature	Detail
Brand	Swann
Connectivity Technology	Wired
Video Capture Resolution	2160p (4K Ultra HD)
Special Feature	Vehicle Detection, Dual Detection Zone, Motion Sensor, Color Night Vision, Sensor Spotlights
Number of Channels	8
Memory Storage Capacity	2 TB (expandable up to 6 TB)
Color	White
Power Source	AC

Feature	Detail
Item Dimensions (L x W x H)	11.02 x 16.93 x 11.61 inches
Compatible Devices	Cameras, Hey Google, Alexa
Signal Format	Digital
Low Light Technology	Night Vision (130ft/40m in total darkness, 32ft/10m in color with sensor light)
Frame Rate	30 fps
Recording Mode	Event, Manual
Optical Sensor Technology	CMOS
Total USB Ports	3
Hardware Interface	Ethernet
Lens Type	Varifocal
Video Input	RJ45
Viewing Angle	80 Degrees
Item Model Number	NVR8-8580
Included Components	Mounting Screws & Plugs, Power Adapter, Mouse, NHD-875WLB Bullet Cameras x 6, Cat5e Ethernet Cable x 7 (60ft/18m x 6 & 3ft/1m x 1), HDMI Cable, NVR-8580 8 Channel NVR with 2TB Hard Drive, Theft Deterrent Stickers, Quick Start Guide

7. WARRANTY AND SUPPORT

Your Swann 4K Ultra HD NVR Security Camera System comes with a**1-Year Limited Warranty**. For detailed warranty terms and conditions, please refer to the official documentation or contact Swann customer support.

For additional support, including comprehensive user guides, FAQs, and contact information, please visit the official Swann website or refer to the [User Guide \(PDF\)](#) and [User Manual \(PDF\)](#) provided by Swann.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question