

SOVMIKU SFYNVR-P-8

SOVMIKU 4K 8-Channel PoE Network Video Recorder (NVR)

Model: SFYNVR-P-8 | Brand: SOVMIKU

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your SOVMIKU 4K 8-Channel PoE Network Video Recorder (NVR). This NVR is designed to provide reliable and high-quality surveillance recording for your home or business. Please read this manual thoroughly before operating the device.

1.1 Package Contents

Before proceeding with installation, please verify that all items listed below are included in your package. If any items are missing or damaged, please contact SOVMIKU support.

- SOVMIKU 4K 8-Port PoE NVR
- Power Adapter
- USB Mouse
- User Manual
- Mounting Screws for HDD (Hard Disk Drive not included)

Why Digital over Analog?		
	 SOVMIKU NVR System	 DVR System
Compatible Cams	SOVMIKU POE Camera Any Support ONVIF IP Camera	Wired Analog Camera
Maintenance	Fix bug,optimize or add features by upgrading firmware	Replace Only
Transmission Range	270ft via CAMT, 330ft via CAT6, POE switch can extend range	Signal decay over 330ft via BNC
Wiring	A single ethernet cable transmit power, video and audio	Three differenet cables seperately transmit power, video and audio
Resolution	Up to 4K	Up to 4K

Figure 1.1: Package Contents. The image displays the NVR unit, power adapter, USB mouse, user manual, and a set of screws, indicating what is included in the product box.

2. PRODUCT FEATURES

The SOVMIKU 4K 8-Channel PoE NVR offers advanced features for comprehensive surveillance:

- **4K PoE / IP NVR Compatibility:** Supports resolutions up to 4K/2K/8MP/5MP/3MP/1080P with PoE and IP cameras.
- **Innovative Human & Vehicle Detection:** Minimizes false alerts by distinguishing between human and vehicle movement and other environmental factors.
- **Advanced H.265+ Video Format:** Efficient compression saves up to 50% storage space compared to H.265, allowing for longer recording times.
- **Two-Way Talk Support:** When paired with compatible cameras, enables two-way communication via the Guard Viewer App or Client.
- **8 Ports PoE NVR 16CH Expandable:** Built-in 8 PoE ports (4K 8MP) can power 8 PoE cameras directly. Expandable up to 16 channels with an additional PoE switch (not included).
- **Remote Access:** Access your cameras remotely anytime, anywhere using the free "Guard Viewer" APP.
- **24/7 Recording & Playback:** Supports continuous recording and 8-channel synchronous playback.



Figure 2.1: SOVMIKU NVR Front and Rear View. The top image shows the front of the NVR with indicator lights. The bottom image shows the rear panel with 8 PoE ports, USB 2.0 and 3.0 ports, audio out, 4K HDMI port, VGA port, and power input.

4K UltraHD NVR System | 16 Channel

8 Port PoE Network Video Recorder



4K UltraHD Resolution

Observe every detail in stunning 4K UltraHD resolution at 30fps



16 Channels Expandable

Record up to 16 channels



HDMI Input

Connect to an Ultra HDTV and watch what you love, anytime anywhere



POE Networking

Connect and power your camera using POE technology

Figure 2.2: 4K UltraHD NVR System Overview. This diagram highlights key features such as 4K UltraHD Resolution, 16 Channels Expandable, HDMI Input, and PoE Networking capabilities of the NVR.

Human/Vehicle Detection

Compared to motion detection, person/vehicle detection can be more targeted, ignoring trivial moves.

App Notification



Figure 2.3: Human/Vehicle Detection. This image demonstrates how the NVR's advanced detection system can differentiate between

people and vehicles, reducing irrelevant motion alerts.

Motion Detection and APP Alerts

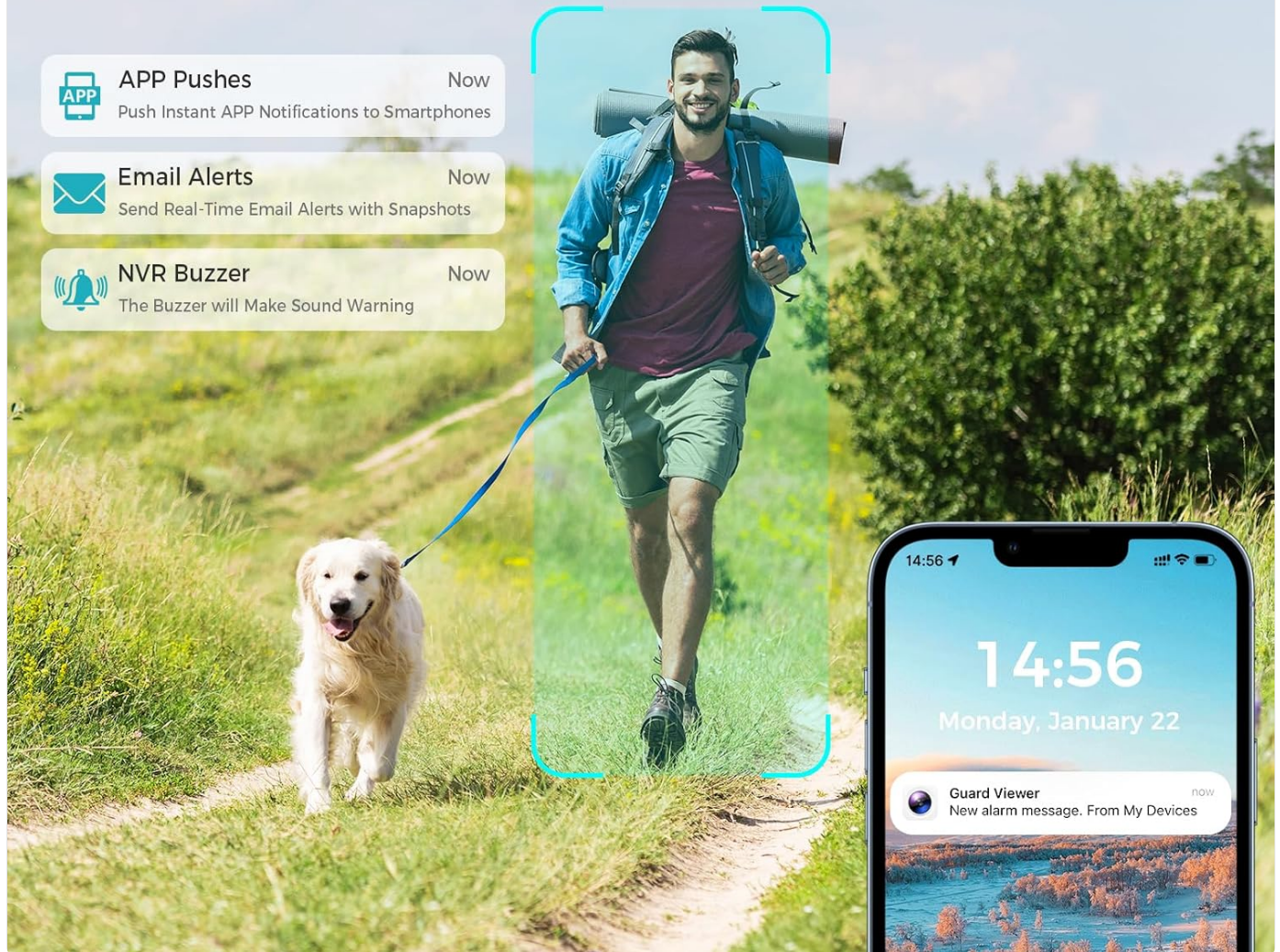


Figure 2.4: Motion Detection and APP Alerts. This image shows how the system provides instant notifications via app pushes, email alerts with snapshots, and an NVR buzzer when motion is detected.

Remote Access Anytime, Anywhere

Download the Free "Guard Viewer" APP and access your cameras remotely from anywhere.



Figure 2.5: Remote Access Anytime, Anywhere. This image illustrates the ability to access and view camera feeds remotely using the "Guard Viewer" app on various devices like smartphones, tablets, and laptops.

Smart 24/7 Recording

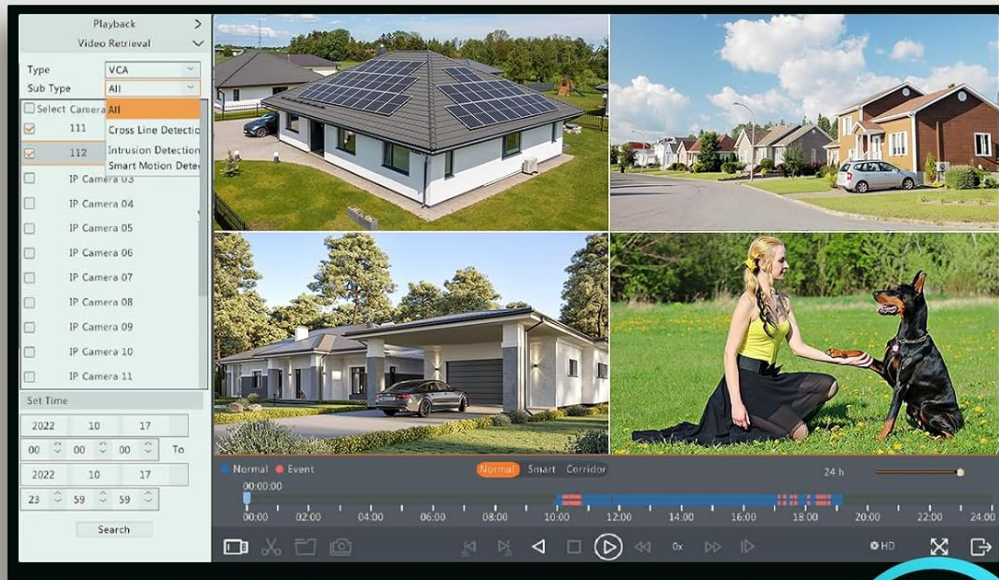
Never Miss a Moment & 8 Channel Synchronous Playback



**No HDD
Included**



Up to
12TB



☒ **Event Type Retrieve**



No HDD Included
(Supports up to 12TB HDD)

H.265+

Figure 2.6: Smart 24/7 Recording. This image highlights the NVR's capability for continuous recording and playback, noting that an HDD is not included but supports up to 12TB, and utilizes H.265+ compression for efficient storage.

3. SETUP GUIDE

3.1 Hard Disk Drive (HDD) Installation

The NVR does not include a pre-installed Hard Disk Drive. An HDD is required for recording and playback. The NVR supports up to 10TB HDD. Follow these steps to install an HDD:

1. Unscrew and remove the top cover of the NVR.
2. Connect the SATA data cable and power cable from the NVR to the corresponding ports on your HDD.
3. Secure the HDD to the NVR chassis using the provided screws.
4. Replace the top cover and secure it with screws.

3.2 Physical Connections

Connect the NVR to your network, display, and cameras as follows:

1. **Connect Cameras:** Plug your PoE cameras into the "PoE Ports" on the back of the NVR using Ethernet cables. For additional cameras beyond the 8 built-in PoE ports, connect them to an external PoE switch (not included) which is then connected to the NVR's LAN port.
2. **Connect to Display:** Connect a monitor to the NVR using either the HDMI or VGA port.
3. **Connect Mouse:** Plug the USB mouse into one of the USB ports on the NVR.
4. **Connect to Network (Optional for Local Use):** For remote viewing and app notifications, connect the NVR's LAN port to your router using an Ethernet cable. The NVR can function for local recording and viewing without an internet connection.
5. **Power On:** Connect the power adapter to the NVR's power input and then plug it into a power outlet.

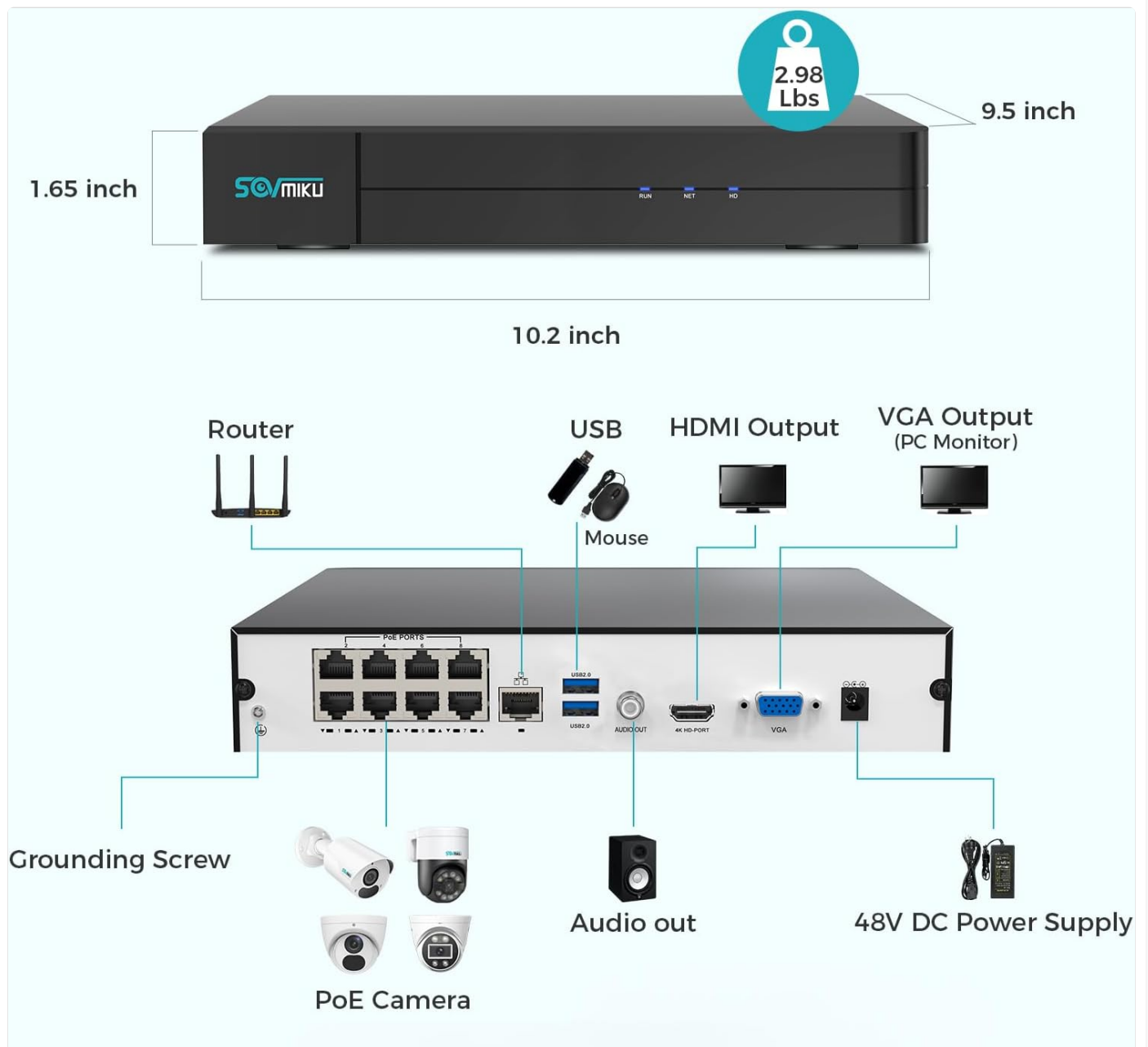


Figure 3.1: NVR Connection Diagram. This image illustrates how to connect the NVR to a router, USB mouse, HDMI display, VGA display, audio output, 48V DC power supply, and PoE cameras.

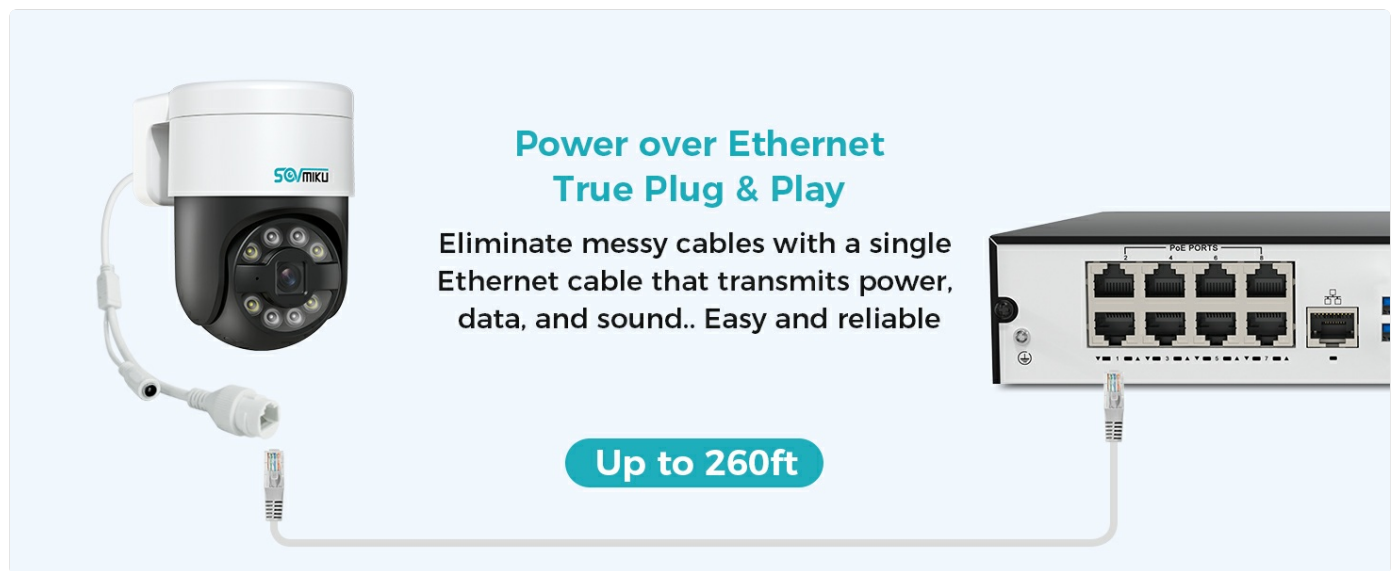


Figure 3.2: Power over Ethernet (PoE) Connection. This image demonstrates the simplicity of connecting a PoE camera to the NVR using a single Ethernet cable for both power and data, supporting distances up to 260ft.



Figure 3.3: Works With/Without Internet. This image clarifies that the PoE NVR can be used for local recording and live viewing without an internet connection, but an internet connection is required for remote viewing and push notifications.

4. OPERATING INSTRUCTIONS

4.1 Initial Setup and Configuration

Upon first boot-up, the NVR will guide you through an initial setup wizard. This typically includes setting up a password, date/time, network settings, and formatting the installed HDD.

4.2 Recording Modes

The NVR supports various recording modes:

- **Continuous Recording:** Records 24/7.
- **Motion Detection Recording:** Records only when motion is detected.
- **Scheduled Recording:** Records during specific time periods.

You can configure these settings for each camera through the NVR's interface.

4.3 Playback

To view recorded footage:

1. Access the NVR's main menu using the connected mouse.
2. Navigate to the "Playback" or "Search" section.
3. Select the desired camera(s), date, and time range.
4. The NVR supports synchronous playback of multiple channels.

4.4 Motion Detection and AI Features

The NVR features advanced AI-based detection for people and vehicles. To configure:

1. From the main menu, go to "Alarm" or "Event" settings.
2. Select "Motion Detection" or "Smart Detection."
3. Enable human and vehicle detection for specific channels.
4. Customize motion detection zones to define specific areas for monitoring and to exclude irrelevant areas.
5. Configure alert actions such as app push notifications, email alerts with screenshots, or NVR buzzer warnings.



Figure 4.1: Customizable Motion Detection Zones. This image illustrates how users can define specific areas (zones) within the camera's view for motion detection, allowing for more targeted monitoring.

4.5 Privacy Area Masking

To protect privacy, you can mask specific areas within the camera's view so they are not recorded or displayed:

1. Access the camera settings for the desired channel.
2. Look for "Privacy Mask" or "Privacy Area" options.
3. Draw or select the areas you wish to mask.

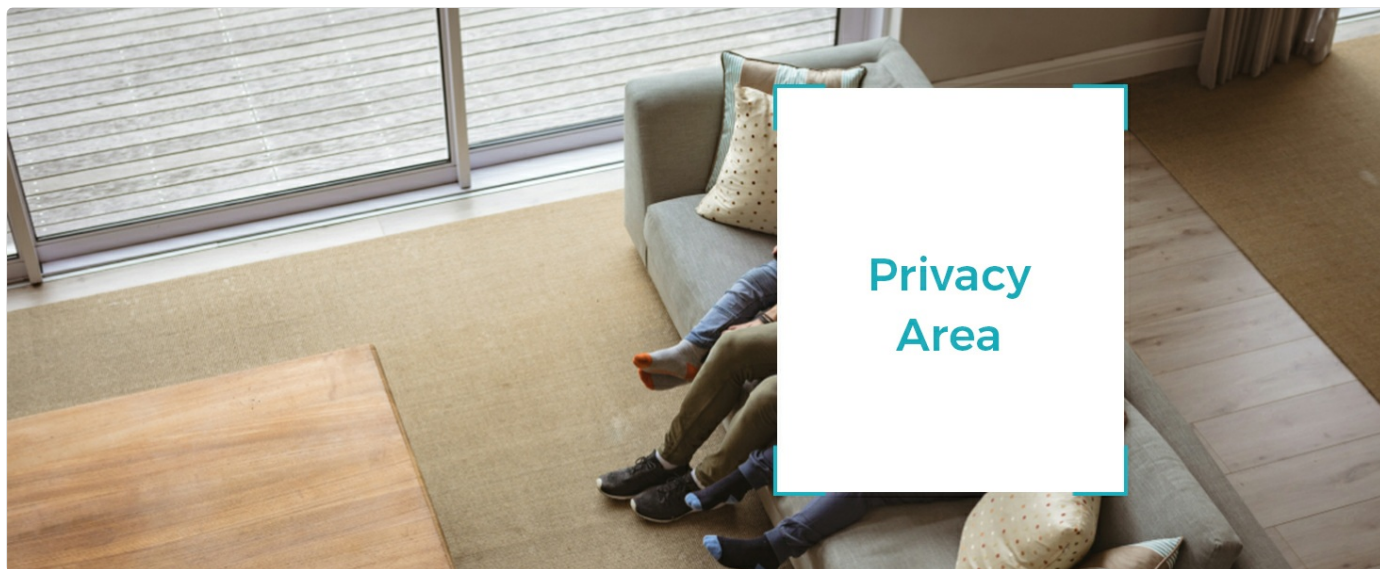


Figure 4.2: Privacy Area Masking. This image shows how specific regions within the camera's field of view can be obscured to protect privacy.

5. MAINTENANCE

5.1 Hard Disk Drive Management

The NVR will automatically overwrite the oldest recordings when the HDD is full. You can configure this behavior in the storage settings. Regularly check the HDD status in the system information to ensure proper functioning.

5.2 Firmware Updates

Periodically check the SOVMIKU official website for firmware updates. Upgrading firmware can fix bugs, optimize performance, and add new features. Follow the instructions provided with the firmware update package carefully to avoid damaging the device.

5.3 General Care

- Keep the NVR in a well-ventilated area to prevent overheating.
- Avoid exposing the NVR to direct sunlight, moisture, or extreme temperatures.
- Clean the exterior of the NVR with a soft, dry cloth. Do not use liquid cleaners or aerosols.

6. TROUBLESHOOTING

This section addresses common issues you might encounter with your SOVMIKU NVR.

6.1 NVR Not Finding Cameras / Cameras Offline

- **Check Physical Connections:** Ensure all Ethernet cables are securely connected to both the NVR's PoE ports and the cameras.
- **Power to Cameras:** Verify that the NVR is powered on and providing power to the PoE cameras.
- **IP Address Issues:** If cameras are connected via an external switch, ensure they have valid IP addresses within the NVR's network segment. Try manually adding the camera's IP address through the NVR interface.

- **Compatibility:** Ensure your cameras are compatible PoE or ONVIF IP cameras.
- **Factory Reset (Caution):** If password issues or configuration errors persist, a factory reset might be necessary. Consult the NVR's on-screen menu for this option. Be aware this will erase all settings.

6.2 NVR Reboots Frequently

- **Overheating:** Ensure the NVR is in a well-ventilated area and not obstructed. Unplug the NVR and allow it to cool down.
- **Power Supply:** Verify the power adapter is the original one provided and is functioning correctly. An unstable power supply can cause reboots.
- **HDD Issues:** A faulty or improperly installed HDD can cause system instability. Try disconnecting the HDD temporarily to see if the reboots stop.
- **Firmware:** Ensure the NVR has the latest stable firmware version.

6.3 "No Network Present" Error

- **Ethernet Cable:** Check the Ethernet cable connecting the NVR to your router. Try a different cable.
- **Router/Network:** Ensure your router is functioning and providing network access. Test network connectivity with another device.
- **NVR Network Settings:** Verify the NVR's IP address, subnet mask, gateway, and DNS settings are correct (DHCP is usually recommended for simplicity).

6.4 Excessive False Motion Alerts

- **Adjust Sensitivity:** Lower the motion detection sensitivity in the NVR settings.
- **Refine Detection Zones:** Adjust the motion detection zones to exclude areas with frequent irrelevant movement (e.g., trees swaying, busy roads, pets).
- **Enable Human/Vehicle Detection:** Ensure the AI-based human and vehicle detection is enabled for relevant channels to filter out non-human/vehicle movements.



Figure 6.1: Reducing False Positives. This image illustrates how advanced detection helps reduce false alerts caused by environmental factors like trees, clouds, or rain.

7. SPECIFICATIONS

Feature	Specification
Model Number	SFYNVR-P-8
Product Dimensions	10.2 x 9.5 x 1.65 inches (10.2"L x 9.5"W x 1.65"H)
Item Weight	4.16 pounds
Connectivity Technology	HDMI, VGA
Compatible Devices	PoE Camera, IP Camera (up to 4K/2K/8MP/5MP/3MP/1080P)
Memory Storage Capacity	Supports up to 10TB Hard Drive (not included)
PoE Ports	8 Ports (4K 8MP)
Expandability	Up to 16 Channels with external PoE switch
Video Compression	H.265+
Manufacturer	SOVMIKU
Date First Available	December 7, 2023

What's in the box?

Plz notice this NVR can't record/playback the video without a Hard disk drive



4K 8-port PoE NVR



Power Adapter



Mouse



User Manual



Screws

Figure 7.1: Digital (NVR) vs. Analog (DVR) Comparison. This table highlights the advantages of the SOVMIKU NVR system over traditional DVR systems, including camera compatibility, maintenance, transmission range, wiring, and resolution.

8. WARRANTY AND SUPPORT

SOVMIKU is committed to providing high-quality security products. For specific warranty terms and conditions, please refer to the documentation included with your product or visit the official SOVMIKU website. For technical support, troubleshooting assistance, or inquiries, please contact SOVMIKU customer service through their official channels. SOVMIKU's purpose is to create a safe and reassuring world, built on values of safety, trust, innovation, excellence, responsibility, and cooperation.

Visit the official SOVMIKU Store for more information:[SOVMIKU Store](#)

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Question

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

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

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