

## SECULINK NVR1616PF-4K

# SECULINK 16-Channel 4K/8MP Network Video Recorder (NVR1616PF-4K) Instruction Manual

Brand: SECULINK | Model: NVR1616PF-4K

## 1. INTRODUCTION

The SECULINK 16-Channel 4K/8MP Network Video Recorder (NVR) provides a comprehensive surveillance solution. This NVR supports full 4K (3840x2160P) video viewing and recording across all 16 channels, compatible with 8MP/5MP/4MP/3MP/1080p ONVIF-compliant IP cameras. It features advanced H.265+ compression technology for efficient storage and bandwidth usage, motion detection recording, and Cloud P2P functionality for remote access via smartphone, tablet, or PC.

This manual provides detailed instructions for setting up, operating, and maintaining your NVR system.



Figure 1: Front view of the SECULINK 16-Channel 4K/8MP NVR.

## 2. PACKAGE CONTENTS

Ensure all items listed below are present in your package:

- 1x Seculink 16-Ch Network Video Recorder
- 1x Power Adapter
- 1x USB Mouse

## 3. PHYSICAL OVERVIEW

### 3.1. Rear Panel

The rear panel of the NVR provides various ports for connectivity:

- **VGA Output:** 1x VGA port for connecting to a monitor.
- **HDMI Output:** 1x HDMI port for connecting to a high-definition display.
- **LAN Port:** 1x RJ45 10M/100M Ethernet port for network connection.
- **USB Ports:** 2x USB2.0 ports for mouse, USB flash disk, or USB DVR writer.
- **Audio Output:** 1x RCA port for audio output.
- **DC 12V Power Input:** For connecting the power adapter.



Figure 2: Rear panel connections of the NVR.

## 4. SETUP

### 4.1. Hard Drive Installation

The NVR does not include a pre-installed hard drive. A 3.5" SATA HDD (up to 6TB recommended) is required for recording. Follow these steps to install the hard drive:

1. Unscrew and remove the NVR's top cover.
2. Connect the SATA power and data cables from the NVR to the hard drive.
3. Align the hard drive with the screw holes on the NVR's base and secure it with screws.
4. Replace the NVR's top cover and secure it with screws.

Video 1: Guide on how to install a hard drive in an NVR. (Note: This video is a general guide for an 8-channel DVR and may not perfectly match the NVR1616PF-4K model, but the installation principles are similar.)

### 4.2. Connecting Cameras

The NVR supports 4K/8MP ONVIF-compliant IP cameras. Ensure your cameras are compatible.

#### 4.2.1. Direct Connection to NVR PoE Ports

If your NVR has built-in PoE ports, connect your IP cameras directly to these ports using Ethernet cables. The NVR will automatically provide power and data connection.

#### 4.2.2. Connection via PoE Switch or Router

If your cameras are not directly connected to the NVR's PoE ports (e.g., using an external PoE switch or router), ensure both the NVR and the cameras are connected to the same local area network (LAN).

Video 2: Guide on how to connect cameras to an NVR, including direct PoE and network connections.

#### 4.2.3. Connecting WiFi Cameras (General Guide)

For WiFi cameras, ensure they are connected to the same network as your NVR. You may need to configure the camera's WiFi settings via its manufacturer's app or web interface first. Once on the same LAN, the NVR should be able to discover and add them.

Video 3: General guide on connecting WiFi cameras to a PoE NVR. (Note: This video is provided by ReolinkDirect and serves as a general example for connecting WiFi cameras to an NVR system.)

### 4.3. Initial Setup Wizard

After connecting the NVR to a monitor (via VGA or HDMI) and powering it on, an initial setup wizard will guide you through basic configurations:

- **Language and Time Zone:** Select your preferred language and set the correct time zone.
- **Password Setup:** Create a strong password for the 'admin' user.
- **Network Settings:** Confirm network settings (DHCP is usually enabled by default).
- **Camera Discovery:** The NVR will automatically search for and add connected IP cameras. If cameras are not discovered, ensure their IP addresses are compatible with the NVR's network segment.

## 5. OPERATING THE NVR

---

### 5.1. Live View

Once cameras are added, you can view live footage on your connected monitor. The NVR supports full 4K video viewing on all 16 channels.



## Dual-stream Encoding



Local Preview



Different parameter settings  
meet different needs



Remote Preview

## Monitor What You Want



Corridor Security



Office Security



Street Security



Factory Security

Figure 3: Multi-channel live view displaying various surveillance scenarios.

### 5.2. Playback

Access recorded footage through the NVR's menu. You can search by time, date, event, or channel. The H.265+ compression allows for longer recording times and simultaneous network transmission and playback.

### 5.3. Remote Access (Cloud P2P)

The NVR features Cloud P2P functionality for remote viewing and playback. Install the XMeye app on your smartphone or tablet, or use client software on your PC, to monitor your premises from anywhere.



Figure 4: Multi-platform remote access for live view and playback.

#### 5.4. Motion Detection Recording

Configure the NVR to record only when motion is detected, saving storage space. You can set specific areas for motion detection and adjust sensitivity levels.

## Dual-stream Encoding



Local Preview



Different parameter settings  
meet different needs



Remote Preview

## Monitor What You Want



Corridor Security



Office Security



Street Security



Factory Security

Figure 5: Motion detection recording in action.

### 5.5. H.265+ Compression Technology

The NVR utilizes H.265+ video compression, which significantly increases bandwidth and storage efficiency compared to older standards like H.264. This results in smaller file sizes, higher definition, and longer recording times without compromising video quality.



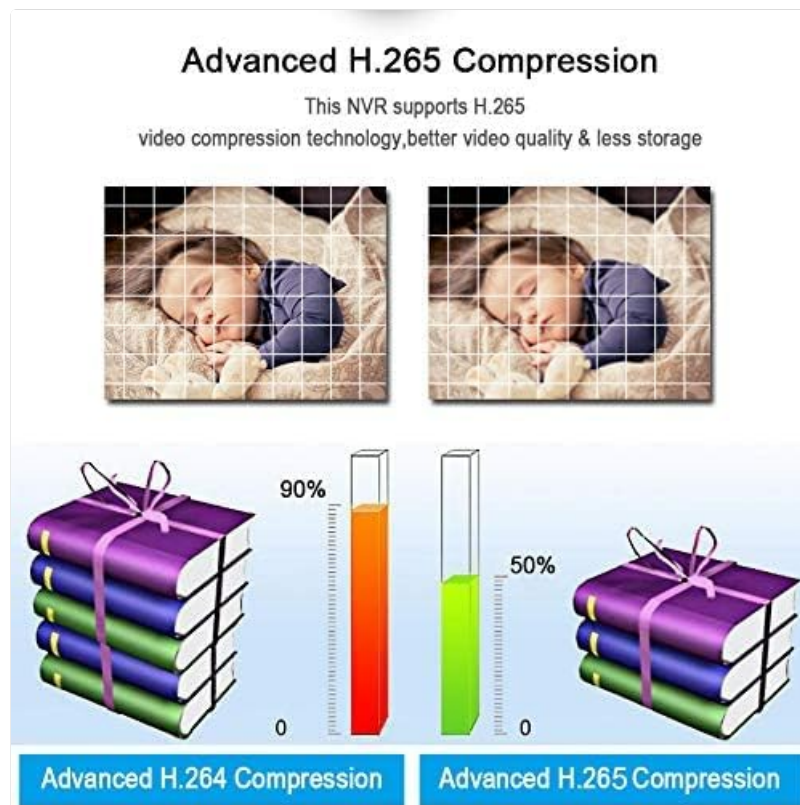


Figure 6: Comparison of H.264 and H.265+ compression efficiency.

## 6. MAINTENANCE

### 6.1. Password Reset

If you forget your NVR's login password, you can reset it using the security questions you set during initial setup or by scanning a CAPTCHA QR code with the mobile app.

Video 4: Guide on how to reset an NVR password.

## 7. TROUBLESHOOTING

### 7.1. Cameras Not Connecting/Offline

If cameras appear offline or cannot be added:

- **IP Address Mismatch:** Ensure the camera's IP address is in the same network segment as the NVR's IP address (e.g., 172.16.0.x). If not, you may need to use the camera manufacturer's firmware or tools to change the camera's IP address.
- **Incorrect Login Credentials:** If the NVR indicates "wrong user name and password," enter the correct username (default is often 'admin') and password (default is often 'ipc123456' for new Hikvision/Dahua cameras, or check your camera's manual).
- **Network Connectivity:** Verify all Ethernet cables are securely connected and that the network (router/switch) is functioning correctly.

### 7.2. No Video Output on Monitor

If you see no video on your monitor:

- **Cable Connection:** Ensure the HDMI or VGA cable is securely connected between the NVR and the monitor.
- **Monitor Input:** Check that your monitor is set to the correct input source (HDMI/VGA).



- **Resolution:** The NVR's output resolution might be incompatible with your monitor. Access the NVR's settings (if possible, or try connecting to a different monitor) and adjust the VGA/HDMI resolution to a supported setting (e.g., 1920\*1080/60Hz).



## 8. SPECIFICATIONS





- **Model Number:** NVR1616PF-4K
- **Video Resolution:** 16\*4K 8MP (3840x2160P)
- **Video Output:** 1x VGA, 1x HDMI
- **Audio Output:** 1x RCA
- **Network Port:** 1x RJ45 10M/100M
- **USB Port:** 2x USB2.0
- **Streaming Specification:** ONVIF
- **Record Mode:** Manual > Alarm > Motion Detection > Timing
- **Video Search:** Time, Date, Event, Channel Search
- **Power:** DC 12V
- **Case Size:** 260\*43\*190MM (10.24 x 7.48 x 1.69 inches)
- **HDD Interface:** SATA (Max 6TB)
- **APP:** XMeye
- **Item Weight:** 2.23 pounds
- **Connectivity Technology:** Ethernet, HDMI, USB, VGA

## 9. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please contact SECULINK customer support directly. Refer to the product packaging or the official SECULINK website for contact details.

### Related Documents - NVR1616PF-4K

	<p><a href="#">SECULINK POE Camera Operation Instruction and Setup Guide</a></p> <p>Comprehensive guide for setting up and operating SECULINK POE cameras with an ONVIF POE NVR, covering connection, configuration, and specifications.</p>
	<p><a href="#">Atlantis UltraPLEX NVR 1600 AK: 16 Channel 8MP Standalone Network Video Recorder</a></p> <p>Detailed specifications and features of the Atlantis UltraPLEX NVR 1600 AK, a 16-channel H.265/H.264 8MP standalone network video recorder. Learn about its recording capabilities, remote access, ONVIF compatibility, and system requirements.</p>

	<p><a href="#">Dahua DHI-NVR5832/5864-I AI Network Video Recorder - Technical Specifications</a></p> <p>Detailed technical specifications and features of the Dahua DHI-NVR5832/5864-I 32/64 Channel 2U AI Network Video Recorder, including AI capabilities, system overview, functions, and electrical/physical details.</p>
	<p><a href="#">Dahua DHI-NVR4108/4116HS-8P-4KS2 Lite Series NVR: Datasheet &amp; Specifications</a></p> <p>Detailed specifications and features for the Dahua DHI-NVR4108HS-8P-4KS2 and DHI-NVR4116HS-8P-4KS2 Lite Series 8/16 Channel Compact 1U 1HDD 8PoE 4K &amp; H.265 Network Video Recorders. Includes technical details, functions, and ordering information.</p>
	<p><a href="#">Spyclops PRO SPYP-NVR16POE 16-Channel 4K NVR Quick Start Guide</a></p> <p>This guide provides essential information for setting up and operating the Spyclops PRO SPYP-NVR16POE 16-Channel 4K NVR, covering installation, configuration, and mobile app access.</p>
	<p><a href="#">Dahua DHI-NVR5424-24P-4KS2: 24-Channel 4K PoE Network Video Recorder</a></p> <p>Comprehensive technical specifications and overview of the Dahua DHI-NVR5424-24P-4KS2, a 24-channel 1.5U 4K H.265 Pro network video recorder with 24 PoE ports, advanced analytics, and robust storage capabilities.</p>