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Vonnision 16 ports nvr

Vonnision 16 Channel 4K PoE NVR User Manual

Model: 16 ports nvr

1. INTRODUCTION

Thank you for choosing the Vonnision 16 Channel 4K PoE Network Video Recorder (NVR). This manual provides detailed instructions for the installation, operation, and maintenance of your NVR system. Please read this manual thoroughly before using the product to ensure proper setup and optimal performance. Keep this manual for future reference.

2. PRODUCT OVERVIEW

The Vonnision 16 Channel 4K PoE NVR is designed for professional video surveillance, offering high-resolution recording and advanced features for comprehensive security monitoring.

Key Features:

- **16 Channel 4K PoE NVR:** Supports resolutions up to 4K/2K/8MP/5MP/3MP/1080P and powers up to 16 PoE cameras simultaneously.
- **H.265 Compression:** Efficiently saves hard drive storage by up to 50% while maintaining sharp and smooth video streaming.
- **Remote Access:** View live video remotely via the "Guard Viewer" app on mobile phones or "Guard Station" software on PC/Mac/Tablet.
- **16 Independent PoE Ports:** Plug-and-play connectivity for PoE cameras.
- **Compatibility:** Compatible with various PoE, wired, and wireless IP cameras.
- **Storage:** Supports up to 20TB HDD capacity (Hard Disk Drive not included).

What's in the Box:

- Vonnision 4K PoE Network Video Recorder (NVR)
- Power Adapter
- USB Mouse
- User Manual



Image 2.1: Front and rear view of the Vonnisision 16 Channel 4K PoE NVR, showing USB ports, status indicators, and various rear ports including PoE, audio, video, and power inputs.

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 video recording. The NVR supports up to 20TB capacity. Refer to the NVR's internal diagram for proper HDD mounting and connection.

3.2 Connecting Your System

Follow these steps to connect your Vonnisision 16 Channel 4K PoE NVR system:

1. **Connect PoE Cameras:** Connect your PoE IP cameras directly to the NVR's 16 independent PoE ports using Ethernet cables. These ports provide both power and data.
2. **Connect to Network:** Connect the NVR's LAN port to your router or network switch using an Ethernet cable for remote access and internet connectivity.
3. **Connect to Display:** Connect a monitor to the NVR's HDMI or VGA output port.
4. **Connect USB Mouse:** Plug the included USB mouse into one of the NVR's USB ports for local control.
5. **Power On:** Connect the power adapter to the NVR and then to a power outlet. The NVR will power on automatically.



4K Ultra HD PoE NVR

Compatible with 2mp to 8mp Onvif Enabled Device

Image 3.1: Diagram illustrating the connections for the NVR, including PoE cameras, router, monitor (HDMI/VGA), USB mouse, and power supply.

Compatible with All PoE Cameras



Image 3.2: Illustration showing different types of PoE cameras compatible with the Vonnision NVR system.

4. OPERATING INSTRUCTIONS

4.1 Initial Configuration

Upon first boot, the NVR will guide you through an initial setup wizard. This typically includes setting a password, configuring network settings (DHCP is usually default), and formatting the installed HDD.

4.2 Remote Access

Access your NVR remotely using the following methods:

- **Mobile App:** Download the free "Guard Viewer" app from the App Store (iOS) or Google Play (Android). Follow the in-app instructions to add your NVR using its QR code or device ID.
- **PC/Mac Software:** Download the "Guard Station" software for your computer. This software allows for comprehensive management and viewing of your NVR system.

4.3 Recording and Storage

The NVR supports 24/7 continuous recording. The H.265 video compression technology optimizes storage space, allowing for longer recording periods on your HDD.

4.4 Motion Detection and Alarms

Configure motion detection settings to trigger alarms and recording when movement is detected in specified areas. This feature helps conserve storage and focuses on relevant events.

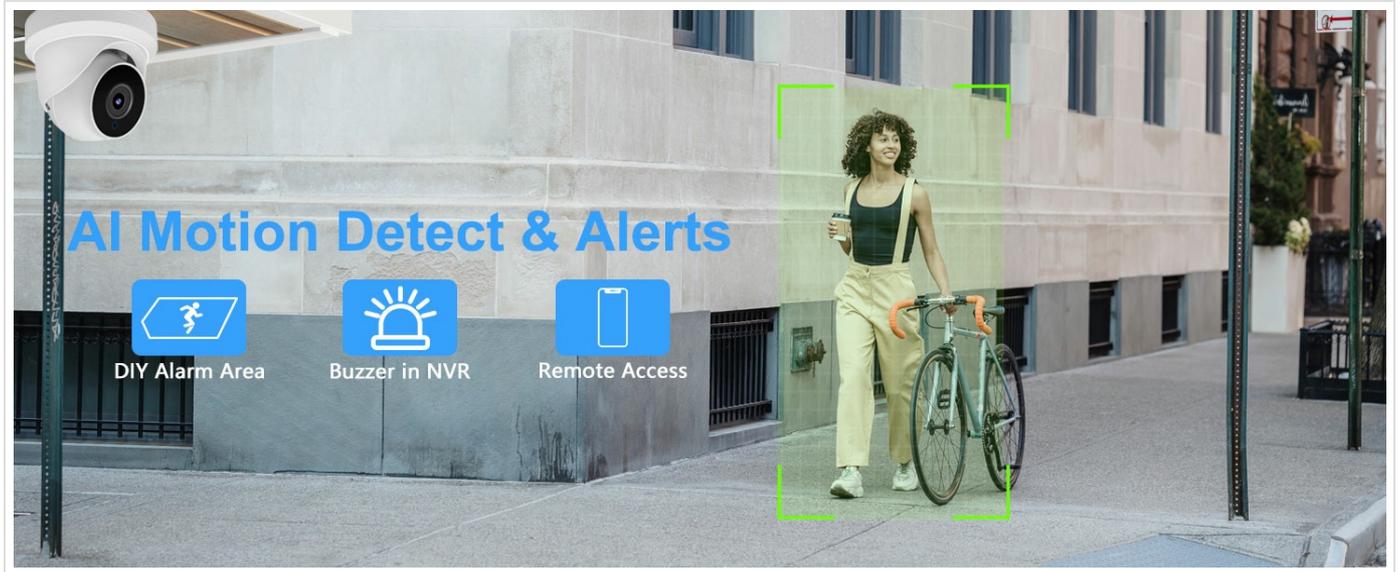


Image 4.1: Overview of AI Motion Detection and Alert features, including DIY alarm area, NVR buzzer, and remote access notifications.

4.5 Smart Playback

Utilize the smart playback function to easily search and review recorded footage. You can filter by event type and time to quickly locate specific incidents.

24/7 Professional Video Surveillance

Smart Video Filter



- ✓ Event Type Retrieve
- ✓ Max Playback Speed: 256X

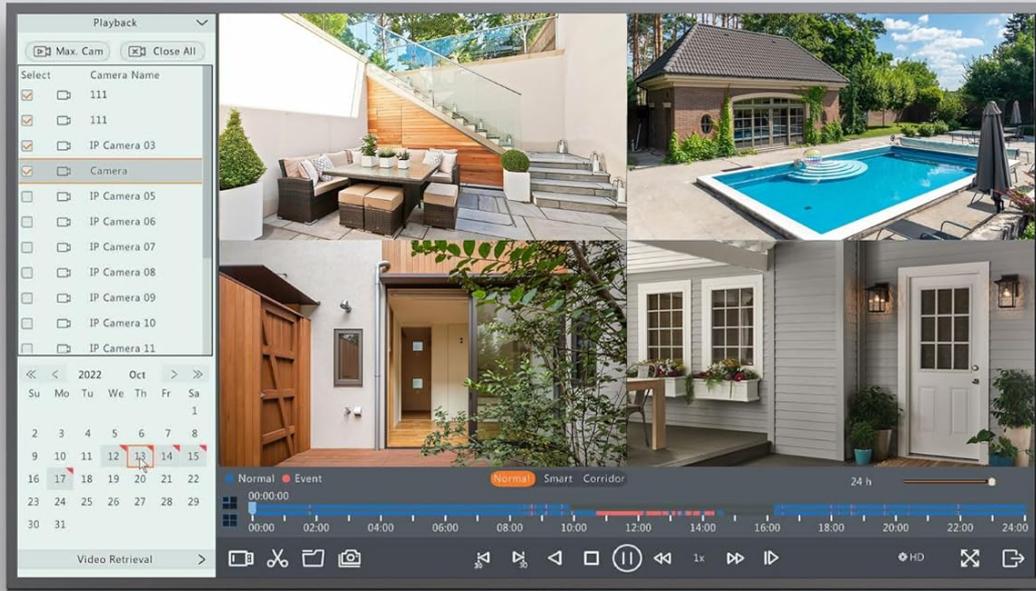


Image 4.2: Screenshot of the NVR's playback interface, demonstrating event type retrieval and timeline navigation for recorded video.

5. MAINTENANCE

- **Regular Cleaning:** Keep the NVR unit clean and free from dust to ensure proper ventilation. Use a soft, dry cloth for cleaning.
- **Firmware Updates:** Periodically check the manufacturer's website for firmware updates. Updating firmware can improve performance, add new features, and enhance security.
- **Data Backup:** Regularly back up important video footage to an external storage device if needed.
- **HDD Health Check:** Monitor the health of your installed hard disk drive through the NVR's system settings to prevent data loss.

6. TROUBLESHOOTING

Common Issues and Solutions:

- **No Video Output:**

- Check HDMI/VGA cable connections to the monitor and NVR.
- Ensure the monitor is powered on and set to the correct input source.

- **"Device Offline" Error on App:**

- Verify the NVR is connected to the internet via an Ethernet cable to your router.
- Check your router's internet connection.
- Ensure the P2P (Peer-to-Peer) status is enabled in the NVR's network settings.
- Restart the NVR and your router.

- **Cameras Not Displaying:**

- Ensure PoE cameras are properly connected to the NVR's PoE ports.
- Check Ethernet cables for damage.
- Verify cameras are powered on (PoE status lights on NVR ports).
- Confirm camera compatibility with the NVR (supports 2MP to 8MP Onvif Enabled Devices).

- **No Recording:**

- Ensure a hard disk drive (HDD) is installed and properly formatted within the NVR settings.
- Check recording schedules and motion detection settings.

If you encounter issues not covered here, please refer to the support section for assistance.

7. SPECIFICATIONS

Feature	Detail
Model Number	16 ports nvr
Number of Channels	16
Max Resolution Support	4K/2K/8MP/5MP/3MP/1080P
Video Compression	H.265
PoE Ports	16 Independent PoE Ports
Max Storage Capacity	12 TB (Supports up to 20TB, HDD not included)
Connectivity Technology	Ethernet
Compatible Devices	PoE Camera (2MP to 8MP Onvif Enabled)
Item Weight	7.24 pounds
Package Dimensions	20.5 x 16 x 4.5 inches

16 Channel 4K 8MP PoE NVR

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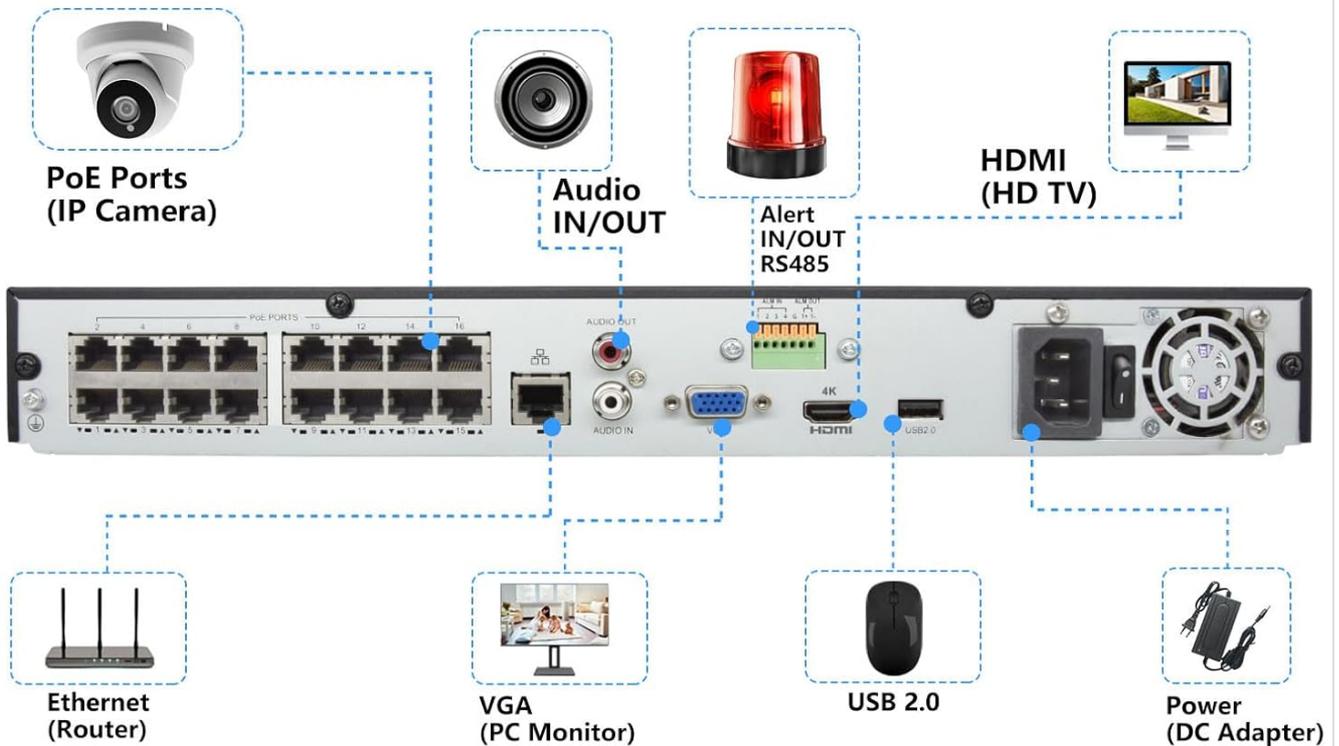
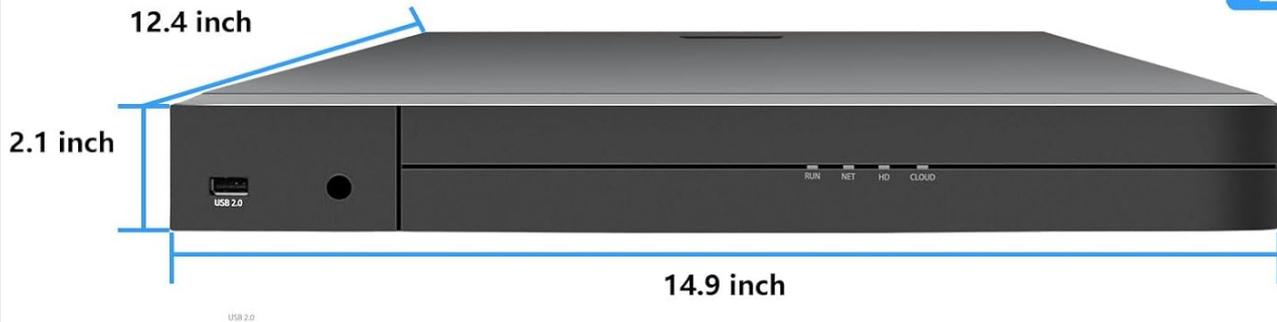


Image 7.1: Visual representation of the NVR's compatibility with various camera resolutions, from 2MP to 8MP.

8. WARRANTY AND SUPPORT

Vonnision provides a **1-year warranty** for this 4K PoE Network Video Recorder. For technical assistance, troubleshooting, or any questions regarding your NVR, please contact Vonnision customer support. Refer to the product packaging or the official Vonnision website for the most current contact information.

When contacting support, please have your NVR model number (16 ports nvr) and purchase details ready.