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Tennoz 6K 12MP PoE NVR

Tennoz 8 Channel 12MP PoE Network Video Recorder NVR User Manual

Model: 6K 12MP PoE NVR

Brand: Tennoz

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your Tennoz 8 Channel 12MP PoE Network Video Recorder (NVR). Please read this manual thoroughly before using the product to ensure proper setup and functionality. Keep this manual for future reference.

2. Package Contents

Upon unpacking, verify that all items listed below are present and in good condition:

- 1 x Tennoz 6K 12MP PoE NVR
- (Additional accessories such as power adapter, mouse, network cable, and screws may be included depending on the specific package.)

Note: Hard Disk Drive (HDD) is not included and must be purchased separately for recording functionality.

3. Product Overview

3.1 Front Panel

The front panel of the NVR typically includes status indicators for network activity, recording status, and power.



Image: Front and rear view of the Tennoz 8 Channel 12MP PoE NVR. The front panel shows LED indicators for NET, REC, and POWER. The rear panel displays various ports for connectivity.

3.2 Rear Panel and Interfaces

The rear panel provides all necessary connection ports for power, network, video output, and USB devices.

- **DC 48V Power Input:** Connect the provided power adapter here.
- **PoE Ports (PoE1-PoE8):** 8 independent Power over Ethernet ports for connecting PoE cameras. These ports supply both power and data.
- **UP LINK (Ethernet Port):** Connect to your router or network switch for internet access and remote viewing.
- **A-OUT (Audio Output):** For connecting external speakers.
- **VGA (Video Graphics Array):** Connect to a monitor for local display.
- **HD-OUT (HDMI Output):** Connect to an HD monitor or TV for high-definition local display.
- **USB Ports:** For connecting a mouse, USB flash drive for backup, or external HDD.

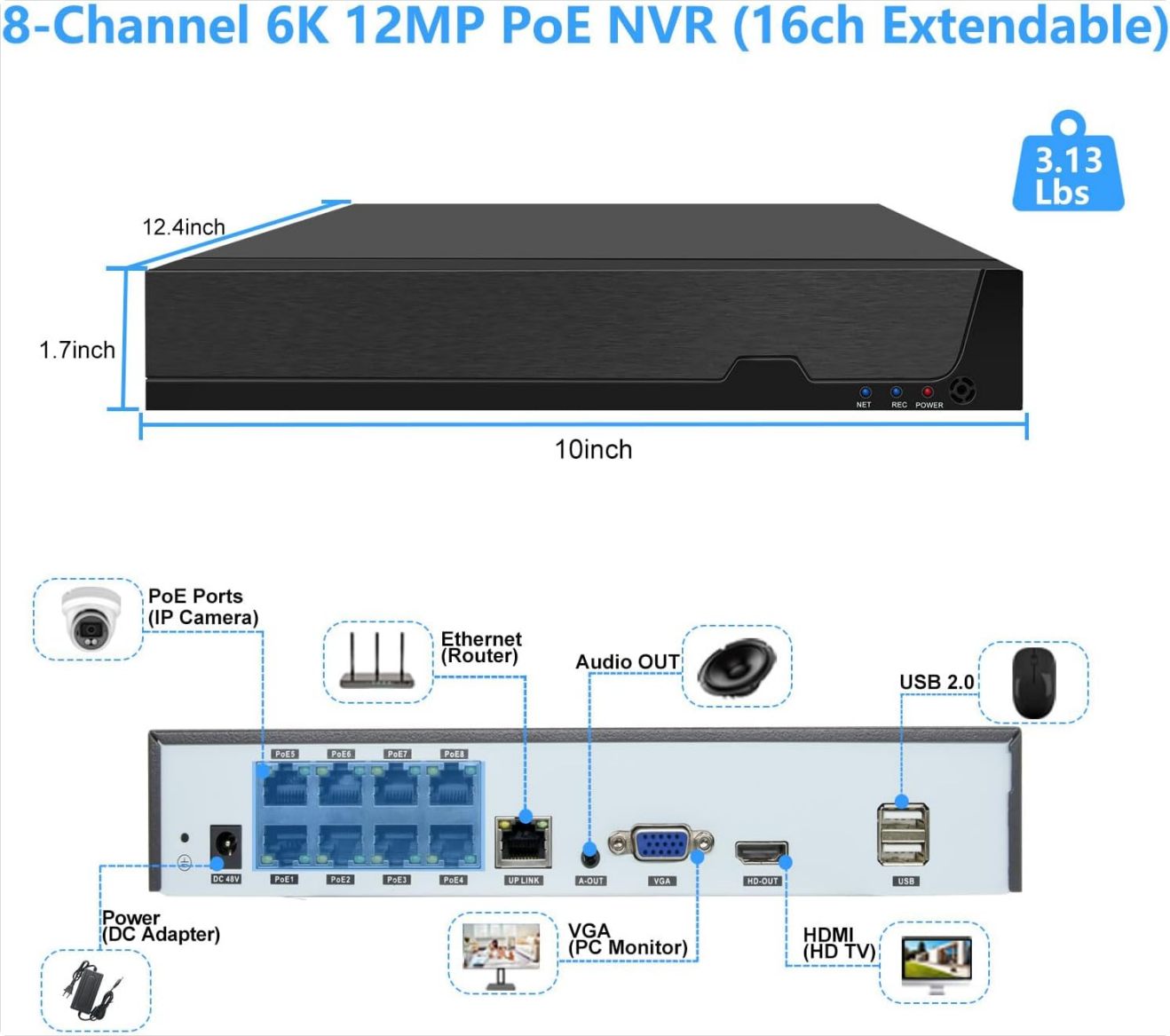


Image: Detailed diagram of the NVR's rear panel, illustrating the DC 48V power input, 8 PoE ports (PoE1-PoE8), UP LINK Ethernet port, A-OUT, VGA, HD-OUT, and USB ports. Dimensions of the NVR are also shown: 10 inches (length), 1.7 inches (height), 12.4 inches (depth).

4. Setup Guide

4.1 Hard Disk Drive (HDD) Installation (Optional)

The NVR does not include a pre-installed HDD. An HDD is required for recording video footage. The NVR supports up to 16TB capacity.

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

4.2 Initial Connections

1. **Connect Monitor:** Connect a monitor to the NVR's VGA or HD-OUT port using a compatible cable.
2. **Connect Mouse:** Plug the USB mouse into one of the NVR's USB ports.
3. **Connect Network:** Connect an Ethernet cable from the NVR's UP LINK port to your router or network switch.
4. **Connect Power:** Connect the DC 48V power adapter to the NVR's power input and then plug it into a power

outlet. The NVR will power on automatically.

4.3 Camera Connection

Connect your PoE cameras directly to the NVR's PoE ports (PoE1-PoE8) using Ethernet cables. The NVR will automatically detect and power the cameras, establishing a video connection.

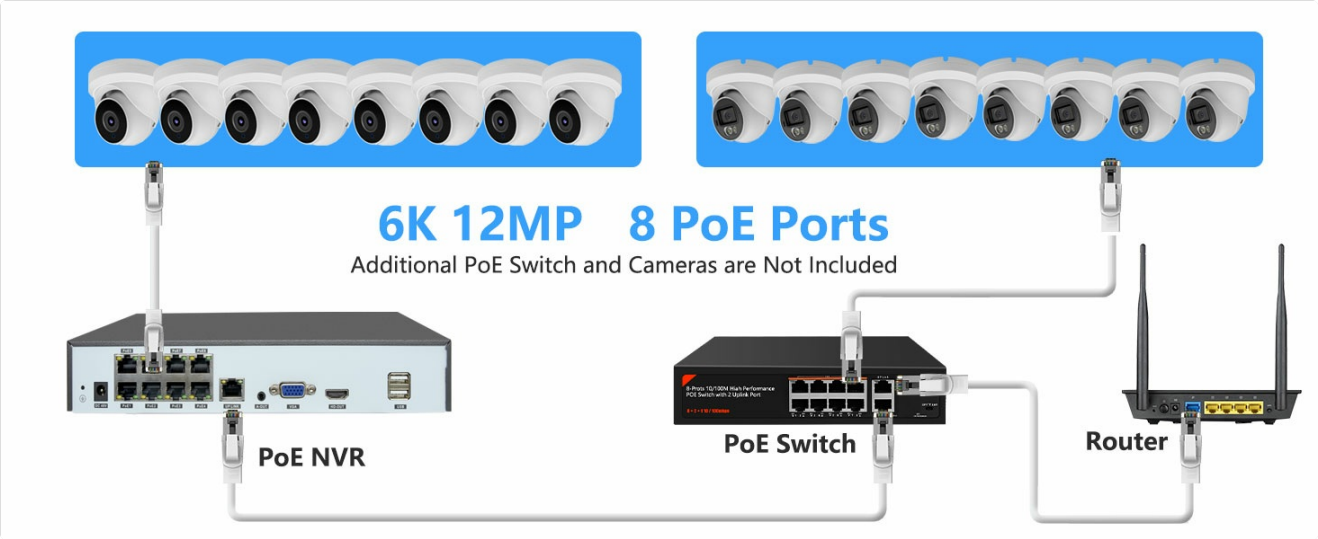


Image: Connection diagram illustrating how the PoE NVR connects to 8 PoE cameras directly. It also shows an optional PoE switch for connecting additional cameras and the NVR's uplink to a router for network access.

5. Operating Instructions

5.1 Initial Configuration

Upon first boot, follow the on-screen wizard to set up basic parameters such as language, date/time, network settings, and password for the NVR.

5.2 Remote Access (Mobile App & PC Client)

The Tennoz NVR supports remote viewing via the "Videolink" mobile application and a PC client. This allows you to monitor your surveillance system from anywhere with an internet connection.

1. **Download the App:** Search for "Videolink" on the App Store (iOS) or Google Play (Android) and install it on your mobile device.
2. **Register/Login:** Create an account or log in to the Videolink app.
3. **Add Device:** Follow the app's instructions to add your NVR by scanning its QR code or manually entering its device ID. Ensure your NVR is connected to the internet.
4. **PC Client:** A dedicated PC client software is also available for remote management and viewing from a computer.



Image: Illustration of the "Videolink" mobile application interface on various devices, demonstrating remote access to live video feeds and system management. The image also highlights features like ONVIF compatibility, H.265 compression, 24/7 recording, remote access support, and real-time alerts.

5.3 Recording

The NVR supports continuous 24/7 recording and event-triggered recording (e.g., motion detection).

- **Continuous Recording:** Configure recording schedules for 24/7 surveillance through the NVR's local interface or remote client.
- **Motion Detection Recording:** Enable motion detection for specific cameras. The NVR will record only when motion is detected, saving storage space.
- **Smart Human Detection & Alerts:** The system can differentiate between human and vehicle movement, reducing false alarms. Configure app alerts to receive notifications instantly when motion is detected.



Image: Depiction of the Smart Human Detection and App Alerts feature. A surveillance camera detects a person and a vehicle, triggering an alert on a mobile phone. This feature helps in receiving instant notifications for relevant events.

5.4 Playback

Access recorded footage through the NVR's local interface or the remote viewing applications. The NVR features smart playback capabilities.

- **Event Type Retrieve:** Easily search for recordings based on specific event types.
- **Max Playback Speed:** Supports up to 256X playback speed for quick review of footage.



Image: A monitor displaying a multi-camera view from the NVR, highlighting 24/7 professional video surveillance with smart video filter capabilities. Icons indicate "No HDD Included" and "Up to 16TB" storage support. Playback controls and event retrieval options are visible.

5.5 Video Compression (H.265)

The NVR utilizes H.265 video compression technology, which significantly reduces file sizes while maintaining video quality. This allows for more efficient storage usage and smoother streaming.

- **Storage Efficiency:** H.265 can save up to 50% of hard drive storage compared to H.264.
- **Bandwidth Reduction:** Provides smoother video streaming with less latency.



Image: A visual comparison demonstrating that H.265 compression requires 50% less storage than H.264, leading to more efficient data management and smoother video viewing.

6. Maintenance

6.1 Storage Management

Regularly check the status of your HDD and manage recorded footage to ensure continuous recording. The NVR supports up to 16TB of storage.

- **Automatic Overwrite:** Configure the NVR to automatically overwrite the oldest footage when the HDD is full.
- **Backup:** Periodically back up important footage to an external USB drive or network storage.

6.2 Firmware Updates

Check the Tennoz official website or contact support for available firmware updates to ensure optimal performance and security.

7. Troubleshooting

- **No Video Output:**
  - Ensure the monitor is powered on and correctly connected to the NVR's VGA or HD-OUT port.
  - Verify the video input source on your monitor is set correctly.
- **Cameras Not Displaying:**
  - Check if PoE cameras are properly connected to the NVR's PoE ports.
  - Ensure Ethernet cables are not damaged.
  - Verify cameras are powered on (PoE ports should supply power).
  - If using non-PoE IP cameras, ensure they are powered separately and correctly configured on the network.
- **No Remote Access:**
  - Confirm the NVR's UP LINK port is connected to a router with internet access.
  - Check network settings on the NVR to ensure it has a valid IP address.
  - Verify your mobile device has an active internet connection.
  - Ensure the "Videolink" app is updated to the latest version.
- **No Recording:**
  - Ensure an HDD is installed and properly connected inside the NVR.
  - Check the HDD status in the NVR's system settings; it may need to be formatted.
  - Verify recording schedules are correctly configured.

8. Specifications

Model Number	6K 12MP PoE NVR
Brand	Tennoz
Number of Channels	8
Video Input	IP Input
Max Resolution Support	Up to 12MP (6K/4K/8MP/5MP/3MP/1080P)
Video Compression	H.265
HDD Support	1 SATA interface, up to 16TB (HDD not included)
Connectivity Technology	Ethernet (PoE, UP LINK)
Compatible Devices	PoE Camera, Wired/Wireless IP Camera, Smartphone
Remote Access App	Videolink
Item Weight	3.53 pounds
Package Dimensions	13.78 x 11.02 x 3.15 inches

9. Warranty and Support

Tennoz provides service and support for this PoE network video recorder NVR.

- **Technical Support:** For technical assistance, troubleshooting, or inquiries, please refer to the contact information provided with your product packaging or visit the official Tennoz support website.
- **Warranty:** Information regarding product warranty periods and terms can be found on the Tennoz official website or within your product documentation.

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