Pelco NET5501-I

Pelco NET5501-I One-Channel in-Line IP Video Encoder User Manual

Your guide to installation, operation, and maintenance.

1. INTRODUCTION

The Pelco NET5501-I is a high-performance, single-channel video encoder designed to integrate analog cameras and positioning systems into an IP video surveillance system. This device delivers clear images while efficiently managing network bandwidth and storage requirements for IP video surveillance applications.

Key features include:

- Remote management capabilities for convenient monitoring.
- Designed to help reduce theft and losses in surveillance environments.
- Supports up to 1 channel, suitable for small to mid-range requirements.

2. PRODUCT OVERVIEW

The NET5501-I encoder features a robust design for reliable operation. On its front panel, you will find LED indicators for power, network activity, and status. The rear panel typically houses the Ethernet port (with Power over Ethernet capabilities) and the BNC connector for analog video input.

3. WHAT'S IN THE BOX

Upon opening the product packaging, ensure all components are present and undamaged. The standard package for the Pelco NET5501-I includes:

- IP Video Encoder (NET5501-I unit)

Note: Additional accessories such as power adapters (if not using PoE), mounting hardware, or cables may be sold separately or vary by region/bundle.

4. SETUP

4.1 Physical Installation

1. **Choose a Location:** Select a secure and environmentally stable location for the encoder, away from extreme temperatures, moisture, and direct sunlight. Ensure adequate ventilation.
2. **Connect Analog Camera:** Connect your analog camera's video output to the BNC input connector on the NET5501-I encoder.
3. **Connect to Network:** Connect an Ethernet cable from your network switch or router to the PoE Ethernet port on the encoder. If your network switch supports Power over Ethernet (PoE), the device will power on automatically.
4. **Alternative Power (if no PoE):** If PoE is not available, connect a compatible 12V DC power adapter (not included) to the power input jack on the encoder.

4.2 Network Configuration

Upon initial power-up, the encoder will typically attempt to obtain an IP address via DHCP. For detailed network configuration, including setting a static IP address or accessing the web interface, refer to the Pelco IP Video Product Documentation available on the manufacturer's support website. You will need to discover the device's IP address using a network scanning tool or the manufacturer's utility software.

5. OPERATING

5.1 Remote Management

The Pelco NET5501-I is designed for remote management. Once connected to your network and configured with an IP address, you can access its web interface using a standard web browser. This interface allows you to:

- View live video streams from the connected analog camera.
- Adjust video encoding settings (resolution, frame rate, compression).
- Configure network settings.
- Manage user accounts and security settings.
- Perform firmware updates.

Refer to the comprehensive Pelco documentation for detailed instructions on navigating and utilizing the web

interface features.

6. MAINTENANCE

6.1 General Care

To ensure the longevity and optimal performance of your NET5501-I encoder:

- Keep the device clean and free from dust. Use a soft, dry cloth for cleaning. Do not use liquid or aerosol cleaners.
- Ensure proper ventilation around the unit to prevent overheating.
- Avoid exposing the device to extreme temperatures, humidity, or direct water contact.

6.2 Firmware Updates

Periodically check the Pelco support website for available firmware updates. Firmware updates can provide new features, performance improvements, and security enhancements. Follow the instructions provided with the firmware update package carefully to avoid damaging the device.

7. TROUBLESHOOTING

This section provides solutions to common issues you might encounter with your Pelco NET5501-I encoder.

Problem	Possible Cause	Solution
No Power / Power LED Off	No power supply; PoE not active; faulty cable.	Check power connection (PoE or adapter). Ensure PoE switch port is active. Try a different Ethernet cable.
No Network Connectivity / Network LED Off	Ethernet cable disconnected; incorrect network settings; network issue.	Verify Ethernet cable connection. Check network settings (IP address, subnet mask, gateway). Restart network switch/router.
No Video Output / Black Screen	Analog camera not connected; faulty BNC cable; camera not powered; incorrect video settings.	Ensure analog camera is properly connected and powered. Check BNC cable for damage. Verify video input settings in the encoder's web interface.
Cannot Access Web Interface	Incorrect IP address; network firewall; browser issue.	Confirm the encoder's IP address. Ensure your computer is on the same network segment. Temporarily disable firewall. Try a different web browser.

If the problem persists after attempting these solutions, please contact Pelco technical support.

8. SPECIFICATIONS

The following table outlines the technical specifications for the Pelco NET5501-I One-Channel in-Line IP Video Encoder:

Feature	Detail
Product Dimensions	5 x 4 x 5 inches

Feature	Detail
Item Weight	3 pounds
ASIN	B0DHLS31YG
Item Model Number	PE-NET5501I
Date First Available	September 20, 2024
Manufacturer	Pelco
Connectivity Technology	Wired
Brand	Pelco
Memory Storage Capacity	1 TB (Implied for connected storage, not internal device memory)
Number of Channels	1

9. WARRANTY INFORMATION

Pelco products are manufactured to high quality standards. For specific warranty terms and conditions applicable to your NET5501-I encoder, please refer to the warranty statement included with your purchase or visit the official Pelco website. Typically, warranty coverage includes defects in materials and workmanship under normal use.
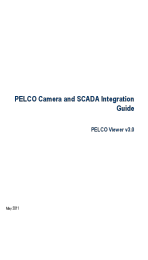
Please retain your proof of purchase for warranty claims.

10. SUPPORT

For technical assistance, product inquiries, or to report issues not covered in this manual, please contact Pelco customer support. Support resources typically include:

- Online knowledge base and FAQs.
- Downloadable documentation and software.
- Technical support phone lines and email.

Visit the official Pelco website for the most up-to-date contact information and support options.

Related Documents - NET5501-I

[Pelco Elevate User Guide](#)

User guide for Pelco Elevate, detailing setup, camera connection, site management, firmware updates, analytic features like Visible Firearm Detection (VFD) and Personal Protective Equipment (PPE), event viewing, and system settings.

[VxConnect User Guide - Pelco](#)

Comprehensive user guide for Pelco's VxConnect software, detailing installation, configuration, account management, user management, stream management, and plugin usage for video streaming and PTZ control.

[Pelco VideoXpert Portal v3.23 Operations Manual: Access, Configuration, and Management Guide](#)

This operations manual provides detailed instructions for Pelco's VideoXpert Portal v3.23, covering system access, configuration, storage management, user operations, and troubleshooting for video surveillance systems.

[Pelco Digital Sentry Release Notes](#)

Comprehensive release notes detailing new features, improvements, and major fixes for Pelco's Digital Sentry software and devices, covering various versions from 7.19 down to 7.2.30.

[PELCO Camera and SCADA Integration Guide | PELCO Viewer v3.0](#)

This guide provides detailed instructions for integrating PELCO cameras with SCADA systems using the PELCO Viewer ActiveX Control. It covers installation, configuration, troubleshooting, and features for managing video streams and camera controls within SCADA environments.

VideoXpert
Ops Center

PELCO
by Schneider Electric

[Pelco VideoXpert Ops Center User Guide - Configuration and Operation](#)
Comprehensive user guide for Pelco's VideoXpert Ops Center, covering installation, configuration, application settings, video playback, PTZ controls, investigation mode, plug-ins, and event management.