

NVR5100 Series Network Video Recorder



24/48 INPUT STREAMS, UP TO 4.8 TB STORAGE, HOT-SWAPPABLE DRIVES

Product Features

- Supports up to 48 Cameras at 30 Frames per Second, 4CIF Resolution (NVR5148)
- Supplies up to 32 Simultaneous Playback Streams and up to 10 Simultaneous Queries
- Expandable Storage Capacity Using Pelco's Storage Expansion Boxes (SEB5100)
- Plug-and-Play Configuration
- Data Authentication Facilities
- Output Viewable on up to 32 Individual Workstations
- Records Video, Audio, and Data Streams for Every Channel
- EnduraStor™ Storage Management System
- Hot-Swappable Hard Drives and Power Supplies

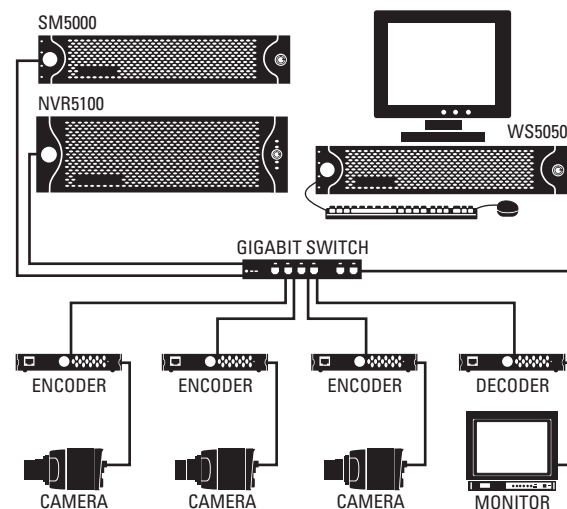


- Fault Tolerance and Performance Enhanced Through Use of RAID 5
- Storage Locking
- Fully Compatible with Pelco's Integrated System Architecture
- System Diagnostics and Error Logging
- Full Over-the-Network Remote Control and Administration
- Redundant Power Supplies

The **NVR5100 Series** network video recorder sits at the center of a Pelco integrated video security system. It represents the state-of-the-art in scalability, features, and reliability. The **NVR5100 Series** represents a whole new generation of flexibility and integration for network-based video system recording. Designed for integration with all of Pelco's next generation networked security devices, the **NVR5100 Series** becomes the distributed system component that records all video, audio, and data.

The **NVR5100 Series** is the network-based video recording system of the future. It integrates seamlessly with other Pelco integrated security products to create a robust, secure, and expandable security platform. When combined with Pelco's WS5050 Endura workstation and stand-alone user interfaces, the **NVR5100 Series** becomes a powerful search, retrieval, and archival video/audio system.

The **NVR5100 Series** is capable of continuous, schedule, alarm/event, and motion recording. Pre- and post-alarm, event, and motion recording is also available and is fully programmable on a per-channel basis. The **NVR5100 Series** maximizes storage efficiency using EnduraStor™ technology, a time- and priority-based system that identifies data to be removed when storage reaches capacity.



The **NVR5100 Series** offers both unsecured and secured modes. The secure mode uses a proprietary key system to prevent unauthorized devices from communicating with an **NVR5100 Series** over the Endura™ network.

IMPORTANT NOTE: PLEASE READ. The network implementation is shown as a general representation only and is not intended to show a detailed network topology. Your actual network will differ, requiring changes or perhaps additional network equipment to accommodate the system as illustrated. Please contact your local Pelco Representative to discuss your specific requirements.

Designed with reliability in mind, the **NVR5100 Series** provides performance enhancement and fault-tolerance by employing RAID 5 disk management across up to 12 hard drives. In addition, a hot drive swap feature is included that automatically configures the drives when installed. Worries are gone about poor data integrity across the recording platform. Diagnostics are systemized with other Endura products so that problems are reported to various network infrastructure-monitoring systems. Dual-redundant, hot-swappable power supplies round out the reliability features of the **NVR5100 Series**, ensuring maximum system uptime.

Endura distributed, network-based products are available only to certified dealers/integrators. Please contact your local sales representative for details on certification applications and requirements. Additional information on Endura products and certifications may be found at <http://www.pelco.com/endura>.



C1621 / REVISED 10-05



International Standards Organization Registered Firm; ISO 9001 Quality System



TECHNICAL SPECIFICATIONS

MODEL NUMBERS

Models	Streams*	Drives	Internal Storage	Video Storage
NVR5124-1500	Up to 24	6**	1.5 TB	1.22 TB
NVR5124-2400	Up to 24	6**	2.4 TB	1.95 TB
NVR5124-3000	Up to 24	12	3.0 TB	2.44 TB
NVR5124-4800	Up to 24	12	4.8 TB	3.9 TB
NVR5148-1500	Up to 48	6**	1.5 TB	1.22 TB
NVR5148-2400	Up to 48	6**	2.4 TB	1.95 TB
NVR5148-3000	Up to 48	12	3.0 TB	2.44 TB
NVR5148-4800	Up to 48	12	4.8 TB	3.9 TB

* Simultaneous full frame rate/full resolution input streams.

** All 6-drive models include 6 empty hard drive carriers.

SUPPLIED ACCESSORIES

6 power cords (2 USA standard, 2 European standard, and 2 UK standard)
Rack mount kit (brackets, rails, and hardware)

SYSTEM

Processor	Intel® Pentium® 4, 3.2 GHz
Internal Memory	2 GB DDR
Operating System	Linux®
User Interface	Remote operation via WS5050 or VCD5000
System Storage	40 GB IDE
Video Storage Capacity	Up to 3.9 TB
Interface	SATA, hot-swappable
RAID Level	5

VIDEO/AUDIO

Video Standards	NTSC/PAL	
Video Compression	MPEG-4	
Video Resolutions	NTSC	PAL
4CIF	704 x 480	704 x 576
2CIF	704 x 240	704 x 288
CIF	352 x 240	352 x 288

NETWORK

Interface	2 Gigabit Ethernet RJ-45 ports (1000BaseT)
Security	2 modes; secure mode (device authentication) and unsecure mode

AUXILIARY INTERFACES

USB 2.0	3 high-speed USB 2.0 ports on rear panel
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FRONT PANEL INDICATORS/FUNCTIONS

Power	Blue
Hard Drive Status	Yellow
Network Activity	Green
Network Status	Green, amber, red
Unit Status	Green, amber, red
Individual Drive Status	Green, red
Power Button	3 states
Configuration/Reset Button	4 states

POWER

Power Input	100-240 VAC, 50/60 Hz, autoranging
Power Supply	Internal, dual-redundant, hot-swappable
Cable Type	2, USA standard (117 VAC, 3 prongs, molded connector, 6 ft or 1.8 m cord) 2, European standard (220 VAC, 3 prongs, molded connector, 6 ft or 1.8 m cord) 2, UK standard (250 VAC, 3 prongs, molded connector, 6 ft or 1.8 m cord)

Power Consumption (maximum)

Input Voltage	Watts	BTU/H
100 VAC	427	1157
115 VAC	422	1143
220 VAC	405	1133

Each hard drive consumes approximately 13 W (21.7 VA) during normal operation.

Uninterruptible Power Supply (UPS)

Compatible with APC® Smart-UPS®, managed through the Endura product architecture

ENVIRONMENTAL

Operating Temperature	50° to 95°F (10° to 35°C)
Storage Temperature	-40° to 149°F (-40° to 65°C)
Operating Humidity	20% to 80% noncondensing
Maximum Humidity Gradient	10% per hour
Operating Altitude	-50 ft to 10,000 ft (-16 m to 3,048 m)
Operating Vibration	0.25 G at 3 Hz to 200 Hz at a sweep rate of 0.5 octave/minute

PHYSICAL

Construction	Steel cabinet
Finish	Front panel: gray metallic with black end caps Chassis: black matte finish
Dimensions	24.3" D x 17.0" W x 5.2" H (61.8 x 43.2 x 13.2 cm)
Unit Weight	Empty (no installed storage) 51 lb (24 kg) Fully equipped (12 drives) 67 lb (31 kg)
Shipping Weight	Empty (no installed storage) 56 lb (26 kg) Fully equipped (12 drives) 73 lb (34 kg)
Mounting	Desktop (feet) or rack 3 RU per unit, 1 RU between units

CERTIFICATIONS AND REGULATIONS

- CE, Class A
- UL Listed
- UL Listed to Canadian safety standards
- FCC, Class A
- C-Tick

OPTIONAL ACCESSORIES

SEB5100 Series	Storage expansion box; adds up to 3.9 TB video storage each; add up to 8 units per NVR5000, up to 35.1 TB of video storage
NVR5000PS	Replacement power supply
HD5000-250	Replacement 250 GB hard drive carrier
HD5000-400	Replacement 400 GB hard drive carrier
HDD1500UP	Video storage upgrade kit; includes six 250 GB hard drive carriers; adds 1.5 TB
HDD2400UP	Video storage upgrade kit; includes six 400 GB hard drive carriers; adds 2.4 TB

STANDARDS/ORGANIZATIONS

- Pelco is a member of the MPEG-4 Industry Forum
- Pelco is a member of the Universal Plug and Play (UPnP) Forum
- Pelco is a member of the Universal Serial Bus (USB) Implementers Forum
- Pelco is a contributor to the International Standards for Organization/Electrotechnical Commission (ISO/IEC) Joint Technical Committee 1 (JTC1), "Information Technology," Subcommittee 29, Working Group 11
- Compliance, ISO/IEC 14496 standard (also known as MPEG-4)
- Compliant with International Telecommunication Union (ITU) Recommendation G.711, "Pulse Code Modulation (PCM) of Voice Frequencies"



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