



NVR300 Network Video Recorder

EXTERNAL STORAGE OR INTERNAL 250-1,500 GB HARD DISK DRIVE

Product Features

- Compatible with PelcoNet™ NET300 and NET350 Transmission Systems
- Video and Audio Recording over TCP/IP Networks
- Video Recording of MPEG-2 and MPEG-4 Streams
- Video Recording up to 48 Mbps for Internal Storage and up to 100 Mbps for External Storage
- Duplex Operation: Simultaneous Recording and Playback
- Continuous and Alarm-Based Recording
- Full-Featured Search Capabilities: Search Based on Camera, Time, or Date
- Patented Automatic Data Replenishment (ADR) Technology That Ensures Recording Even if the Network Is Down
- Digital Certification by Watermarking (Supported with PelcoNet NET300 and NET350, Software Version 3.10)
- Internal RAID (Redundant Array of Independent Disks) Storage or Non-RAID Storage of up to 1,500 GB



- External RAID Storage up to 7,000 GB for Models with No Internal Storage
- Full Integration with the VMX300 Video Management System
- Integrated Web Server Functionality
- Supports up to 16, 32, or 64 PelcoNet Devices

The **NVR300** network video recorder records video and audio data streams received over Ethernet networks using the TCP/IP protocol. The NVR300 receives compressed data streams generated by the PelcoNet NET300 and NET350 transmission systems, indexes the data streams, and then transfers the data streams to internal hard disk storage (RAID Level 5 or non-RAID) or external hard disk storage (RAID Level 5).

Using Automatic Data Replenishment (ADR) technology, the **NVR300** provides flawless recordings despite network failures when connected to a PelcoNet NET350T. When the network is restored after a failure, the **NVR300** automatically retrieves video that was recorded on the local NET350T's CompactFlash® storage device during the network failure. Depending on the size of the NET350T's storage device, minutes, hours, and even days of recording are safely copied to the **NVR300**.

The **NVR300** provides an HTML-based graphical user interface (GUI) that is viewed in a Web browser and can be easily accessed for the programming, playback, and backup of recordings. In addition, integration of the **NVR300** with the VMX300 video management system allows the **NVR300** to be accessed from and controlled by the VMX300.

Recording is programmable for each PelcoNet device known to the **NVR300**. Recordings can be started and stopped manually or can be based on a predefined weekly time schedule. Recordings can also be based on the occurrence of alarm events, including alarms with predefined pre- and post-alarm periods. Based upon the PelcoNet device being recorded, video format can be set to MPEG-2 or MPEG-4.

A graphical display of the status of the **NVR300** provides detailed information about the active recordings of the **NVR300**. The detailed information includes items such as system load and remaining hard disk drive capacity.

Sophisticated playback features allow stored recordings on the **NVR300** to be viewed. Recordings to be viewed can be searched on a camera, time, or date basis. In addition, recordings can be backed up to any client PC in the network or to any shared drive in the network. The **NVR300** also allows recordings to be exported to standard MPEG format so that they can be viewed without the need for client (viewer) software.

Removable hard disk drives in RAID units are field-upgradable and field-serviceable. In the unlikely event of a hard disk drive failure, a new hard disk drive can be installed without loss of data.



TECHNICAL SPECIFICATIONS

MODELS

Model No.	Internal Storage Space (GB)	RAID 5 Hard Disk Drive Configuration	SCSI Connections for External Storage	Data Rate (Mbps)
NVR316J-250	250	No	No	48
NVR316J-500	500	No	No	48
NVR316J-750	750	No	No	48
NVR316J-1000	1,000	No	No	48
NVR316J-1250	1,250	No	No	48
NVR332J-250	250	No	No	48
NVR332J-500	500	No	No	48
NVR332J-750	750	No	No	48
NVR332J-1000	1,000	No	No	48
NVR332J-1250	1,250	No	No	48
NVR316R-750	750	Yes	No	48
NVR316R-1000	1,000	Yes	No	48
NVR316R-1250	1,250	Yes	No	48
NVR316R-1500	1,500	Yes	No	48
NVR332R-750	750	Yes	No	48
NVR332R-1000	1,000	Yes	No	48
NVR332R-1250	1,250	Yes	No	48
NVR332R-1500	1,500	Yes	No	48
NVR316	None	Yes, external	Yes	100
NVR332	None	Yes, external	Yes	100
NVR364	None	Yes, external	Yes	100

SUPPLIED ACCESSORIES:

Rack ears and rack-mount rails
 2 power cords (1 USA standard and 1 European standard)
 Mouse and keyboard

RELATED PRODUCTS

NET300T	IP network video transmission system that transmits live video and control data across Ethernet networks. Features dual MPEG-4 video streams.
NET350T	IP network video transmission system that transmits live video, audio, and control data across Ethernet networks. Features CompactFlash and dual MPEG-4 video streams.
VMX300	Video management system that provides control and monitoring of both analog and digital video systems. Supports client-to-server, client-to-multiple server, and server-to-server configurations.
DX9200HDDI	Video storage unit that provides expandable storage for models with no internal storage only (NVR316, NVR332, and NVR364). A maximum of two units allows up to 7,000 GB of external storage (RAID Level 5).

ELECTRICAL/VIDEO

Input Voltage	100-240 VAC \pm 10%, 50/60 Hz, autoranging
Power Consumption	235 W maximum
Operating System	Microsoft® Windows® XP Professional
Recording Rate	10 kbps to 48/100 Mbps
Recording Frame Rate	Up to 30 images per second (ips) per video stream, total of 960 ips for 32 streams
Compression	MPEG-2, MPEG-4 from PelcoNet devices
Hard Disk Drive Configuration	RAID 5 for model numbers with an R; no RAID for model numbers with a J

MECHANICAL

Connectors	
DB15	Monitor port (VGA)
RJ-45	Ethernet port (100BaseT with fallback options to 10/100BaseT)
USB 2.0	2 ports available
SCSI	2 ports available for DX9200HDDI video storage units for external RAID storage (NVR316, NVR332, and NVR364 models only)
Hardware	
Processor	Intel® Pentium® 4, 2.4 GHz
Memory	512 MB RAM

GENERAL

Operating Temperature	41° to 104°F (5° to 40°C)
Relative Humidity	Maximum 80%, noncondensing
Desktop Dimensions	5.35" H x 17.0" W x 23.1" D (13.6 x 43.0 x 58.7 cm)
Rack-Mount Dimensions	5.25" H x 19.0" W x 23.1" D (3 RUs) (13.3 x 48.26 x 58.7 cm)
Unit Weight (maximum)	48.0 lb (21.78 kg)
Shipping Weight (maximum)	81.0 lb (37 kg)

CERTIFICATIONS

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

CLIENT PC SYSTEM REQUIREMENTS

Hardware	
Processor	Intel Pentium 4, 1.8 GHz, or higher
Memory	512 MB RAM
Graphic Card	Standard PC graphics card that supports DirectX® 9.0 or higher
Network Interface	Ethernet 10/100/1000 BaseT as needed
Sound Card	Optional
Software	
Windows	Windows 2000, XP (Service Pack 1)
Microsoft Internet Explorer	6.0
DirectX	9.0
MPEG ActiveX	(latest PelcoNet version)

Automatic Data Replenishment (ADR) capabilities are subject to network limitations and restrictions. For details refer to the NVR300 Network Video Recorder Installation/Operation manual at www.pelco.com. Consult your local Pelco representative with questions about system design.



Pelco Worldwide Headquarters:
 3500 Pelco Way, Clovis, California 93612-5699 USA
USA & Canada Tel: (800) 289-9100 • FAX (800) 289-9150
International Tel: (559) 292-1981 • FAX (559) 348-1120
www.pelco.com

Pelco and the Pelco logo are registered trademarks of Pelco.
 PelcoNet is a trademark of Pelco.
 CompactFlash is a registered trademark of SanDisk Corporation.
 Microsoft, Windows, and DirectX are registered trademarks of Microsoft Corporation.
 Intel and Pentium are registered trademarks of Intel Corporation.
 Specifications subject to change without notice.
 ©Copyright 2006, Pelco. All rights reserved.