DS NVR Network Video Recorder
DIGITAL SENTRY® NVR, UP TO 32 CAMERAS AND 4 TB

Product Features

- Manages and Records Video from IP Cameras and Encoders Over an IP Network
- Support for Standard IP Video Devices
- Supports Pelco IP Cameras with Sarix™ HD Technology
- Supports the Recording of JPEG, MPEG-4, and H.264 Streams from IP Cameras
- Expandable by Networking an Unlimited Number of Servers and DS NVRs
- 4-, 16-, and 32-Channel Configurations per Server
- Compatible with DS ControlPoint for Simultaneous Monitoring of All DS and DX Products in a Single Client Interface
- Compatible with the DS Archive Utility
- Recording Rate Configurable per Individual Camera
- Support for DS DataPoint Integration

Digital Sentry® software provides IT-focused, scalable solutions that allow users to manage all data and hardware devices from a single client user interface. Digital Sentry network video recorder (DS NVR) is a purpose-built software and hardware solution that manages and records video from IP cameras and encoders across an Ethernet network connection. DS NVR comes in 4-, 16-, or 32-channel configurations with the appropriate number of IP connection licenses preconfigured. DS NVR is a fully scalable solution. DS NVR is HD-enabled, capable of recording exceptional high-quality images captured by Pelco IP cameras with Sarix™ HD technology.

Open architecture is the cornerstone of the Digital Sentry design. Users can choose specific IP cameras or encoders that fit their application. DS NVR supports the majority of third-party IP cameras available today and will continue to add support for new cameras as they are released to the market.

DS NVR supports the IT-focused Digital Sentry software suite that includes network health and event monitoring, video analytics, and archive utility. It seamlessly integrates with all other Digital Sentry video management systems and can be monitored by the same DS ControlPoint client application.

DS NVR offers up to 4 TB of internal storage, which provides enough storage to meet the requirements of most applications. Storage expansion options are also available for additional retention requirements, providing flexibility and scalability to the overall solution. Each DS NVR contains a SCSI card as standard equipment, providing simple connection to external storage solutions such as the DX8100HDDI, which adds another 24 TB of JBOD or RAID 5 storage.

DS NVR contains dual Gigabit network interface cards (NIC) so that users can segment network traffic: one NIC supports heavy IP camera traffic, while the other NIC connects to client workstations for monitoring live and recorded video. DS NVR is designed to accommodate most security and IT requirements.
IMPORTANT NOTE. PLEASE READ.

The network implementations are shown as general representations only and are not intended to show detailed network topologies. Your actual network will differ, requiring changes or perhaps additional network equipment to accommodate the systems as illustrated. Please contact your local Pelco representative to discuss your specific requirements.
## TECHNICAL SPECIFICATIONS

### SYSTEM
- **Operating System**: Microsoft® Windows® XP Professional
- **User Interface**: DS ControlPoint
- **Internal Storage**: 500 GB to 4 TB
- **External Storage**: Up to 24 TB JBOD or RAID 5 through DX8100HDDI

### VIDEO
- **IP Camera Capacity**: 32

### AUXILIARY INTERFACES
- **Network**: 10/100/1000Base-T

### MECHANICAL
- **Connectors**
  - **USB**: 6 high-speed USB 2.0 ports
  - **DB15**: VGA port
  - **1394**: 1394 (not used)
  - **RJ-45**: Dual 10/100/1000 Megabit Ethernet ports
  - **Audio Connectors**: Miniature phono plug for line in (not used), line out, and microphone in (not used)

### POWER
- **Input Voltage**: 100 to 240 VAC ±10%, 50/60 Hz
- **Power Consumption**: 295 W maximum

### PHYSICAL
- **Dimension**: 19.5” D x 19.0” W x 3.5” H (2 RU)
- **Unit Weight**: 29 lb (13.15 kg)
- **Shipping Weight**: 40 lb (18.14 kg)

### 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
- **Operating Altitude**: –50 to 10,000 ft (–15 to 3,048 m)
- **Operating Vibration**: 0.25 G at 3 Hz to 200 Hz at a sweep rate of 0.5 octave/min.

### REMOTE PC CLIENT REQUIREMENTS
- **Processor**: Intel Core™ Quad Q9400, 2.66 GHz
- **Internal Memory**: 4 GB
- **Operating System**: Windows XP Home, Windows Vista®, Windows XP Professional SP 3 Professional SP 3 Windows 7 Enterprise
- **Video System**: 128 MB RAM with DirectX® 9.0c Dual-head, 256 MB RAM with DirectX 9.0c

### CERTIFICATIONS
- CE, Class A
- FCC, Class A
- UL Listed
TECHNICAL SPECIFICATIONS

MODELS
- DSNVR04500: 4 video inputs, 500 GB internal storage
- DSNVR16500: 16 video inputs, 500 GB internal storage
- DSNVR162000: 16 video inputs, 2000 GB internal storage
- DSNVR164000: 16 video inputs, 4000 GB internal storage
- DSNVR32500: 32 video inputs, 500 GB internal storage
- DSNVR322000: 32 video inputs, 2000 GB internal storage
- DSNVR324000: 32 video inputs, 4000 GB internal storage
- DSNVR16-8080: 16 video inputs, 80 GB x 80 GB RAID 1*

*No internal storage included. External RAID storage required.

Note: For a DS NVR system configured as a video acquisition unit (VAU) for use with a Data Management Server (DMS), add “-V” to the model number (not available with DSNVR16-8080).

SUPPLIED ACCESSORIES
- USB Keyboard
- USB Mouse
- Power Cord
- Keys
- Resource Disc
- Recovery Disc
- Rack Hardware

OPTIONAL ACCESSORIES
- KBD300A: KBD300A desktop keyboard with full switching and programming capabilities and joystick control of PTZ functions; requires a KBD300USBKIT or a KBD300USBKIT-X
- KBD300USBKIT: Remote keyboard wiring kit (120 VAC) for KBD300A
- KBD300USBKIT-X: Remote keyboard wiring kit (230 VAC) for KBD300A

DS NVR UPGRADES
- 3390-00290: DVD-RW option (factory installation)
- 3390-00295: DVD-RW option (field upgrade)

OPTIONAL SOFTWARE AND HARDWARE
- AUSRV-SW-1L: Archive utility server software license for first DVMS unit (required)
- AUS 2-10L: Archive utility server software license for second to tenth DVMS units
- AUS-1L: Archive utility server software license for eleventh or greater DVMS units

OPTIONAL EXTERNAL STORAGE

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Number of 2 TB Drives</th>
<th>Storage in GB</th>
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<tbody>
<tr>
<td></td>
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<td>Internal</td>
</tr>
<tr>
<td>DXB100HDDI-6TB</td>
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IP CAMERA LICENSE
- DS-SW-CAM: IP camera license for an IP camera or each analog camera connected to an IP encoder

NOTICE: Judgment as to the suitability of the products for users’ purposes is solely the users’ responsibility. Users should refer to the Operation manuals for cautionary statements regarding user selected options and how they might affect video quality. Users shall determine the suitability of the products for their own intended application, picture rate and picture quality. In the event users intend to use the video for evidentiary purposes in a judicial proceeding or otherwise, users should consult with their attorney regarding any particular requirements for such use.

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