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# Digital Sentry® DSSRV Network Video Recorder

## H.264 CAPABILITY, FULLY SCALABLE HARDWARE/SOFTWARE SOLUTION

## Product Features

- 280 Mbps to support IP and analog video
- Supports up to 128 IP Camera Streams; up to 64 Analog Cameras*
- Optimized to Support Pre-Installed DS NVs Software
- Records H.264, MJPEG, and MPEG-4 IP Streams
- Supports Pelco and Third-Party IP Cameras and Network Encoders
- Expandable by Networking an Unlimited Number of Servers and Encoders (Dependent on Available Network Bandwidth)
- Compatible with DS ControlPoint for Simultaneous Monitoring of All DS Series and DX Series Products in a Single Client Interface
- Network Health and Event Monitoring Support Through Simple Network Management Protocol (SNMP) and New Digital Sentry® System Information (DSSI) Utility



- Compatible with the DS Archive Utility
- Recording Rate Configurable per Individual Camera

### OPTIMIZED FOR VIDEO SURVEILLANCE

The **Digital Sentry® Network Video Recorder (DSSRV NVR)** is optimized by Pelco to deliver the essential hardware support for the DS NVs video management software (VMS) without the extra cost or risk of integrating hardware and software.

Boosted by the 2nd Generation Intel® Core™ i7 processor and 8 GB of RAM, **DSSRV NVR** provides an optimal combination of processing power and reliability to meet the demands of HD video recording and playback operations. The system is powered to support up to 128 combined IP and analog video streams, with up to 64 analog cameras supported via the optional ENC5416 direct-attached encoder. Analog streams are also supported using Pelco and third-party encoders.

The **DSSRV NVR** delivers total available throughput of 280 Mbps for recording of analog and IP video streams as well as playback and export through the DS ControlPoint client. When determining the maximum number of cameras and the desired frame rate to host on each system, the number of concurrent client connections, the number of streams likely to be viewed in playback on each client, and the bandwidth required to support the client connections must be taken into consideration.

The **DSSRV NVR** functions as a stand-alone system or as part of a network of servers, monitored from the DS ControlPoint user interface. The system can be deployed solely as a network video recorder, as a digital video recorder (DVR), or as a hybrid NVR.

Two gigabit network ports provide for convenient network architecture planning by allowing one port to be dedicated to IP cameras, while the second network port is used for client connections. Two DVI-D ports provide a convenient connection for high resolution digital monitors for use with HD cameras.

### RELIABILITY

With front-available drives for easy servicing and upgrades, the **DSSRV NVR** is available with up to 18 TB for models without the optional optical disk drive (ODD), or up to 12 TB for ODD models. The drives are hot-swappable when configured for internal RAID 5 storage with the optional RAID 5 controller card. A minimum of three drives is required for a RAID 5 configuration. External storage is supported through USB attached storage or by using the optional DSSRV-SCSI interface card to connect to external SCSI storage targets such as the DX8100HDDI, providing additional storage of up to 24 TB. The external storage can be configured for JBOD storage of software controlled RAID 5. Internal RAID 5 storage cannot be used in conjunction with external storage.

Front panel LED displays on the **DSSRV NVR** provide information on system operation. The LEDs are integrated with the new Digital Sentry System Information (DSSI) utility, providing critical, real-time statistics on system resource utilization, temperature, and throughput status.

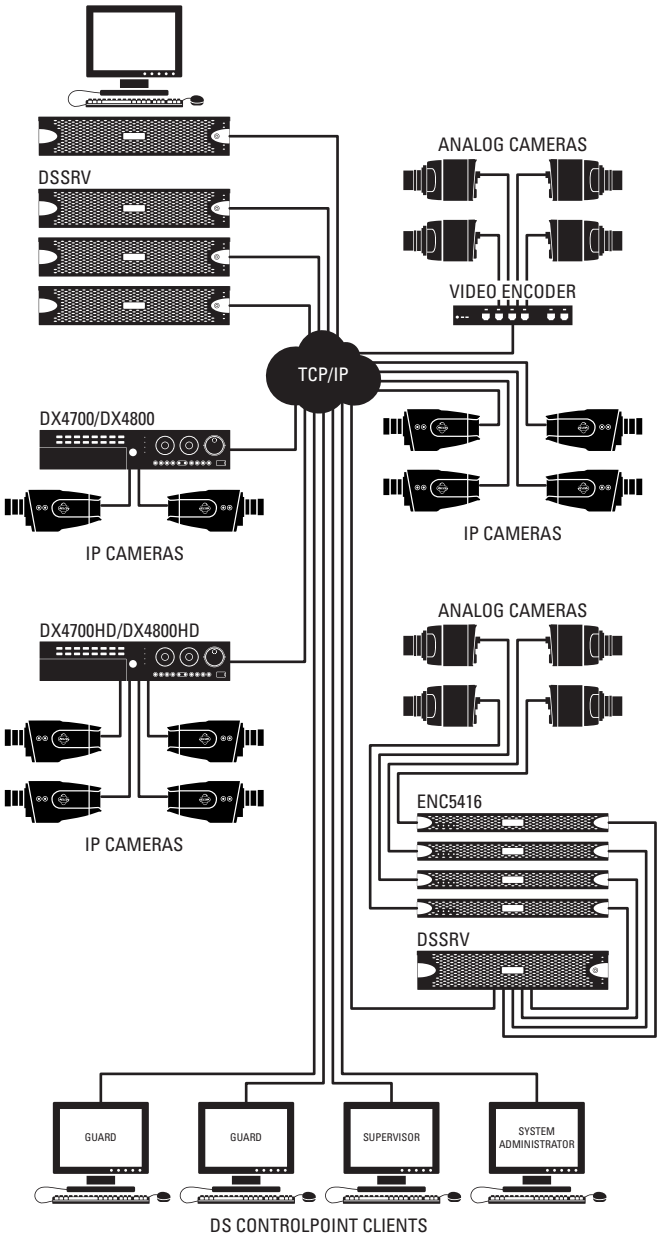
*The DS NVs database is limited to 128 cameras. The actual number of cameras that can be supported is dependent on camera settings, client connections and activity, network bandwidth, and the available throughput of the DSSRV NVR.

## OPEN ARCHITECTURE

The cornerstone of Digital Sentry design, a fully Open Architecture, is provided through ONVIF compliance and support for a large number of IP-specific drivers. Users can choose specific IP cameras or encoders to fit their application.

In addition, the Digital Sentry platform supports the Pelco API and a full suite of integration tools, allowing Digital Sentry to be integrated into access control or PSIM systems

Eliminate the risk of deferred support that comes with VMS software from one vendor and a general purpose hardware platform from another. Replace it with the assurance of an integrated platform built specifically for the rigors of IP video recording. Make the performance, reliability, and Open Architecture of DS NVs running on DSSRV NVR the core foundation of your video management solution.




**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.

# TECHNICAL SPECIFICATIONS

## SYSTEM

| | |
|---|---|
| Processor | 2nd Generation Intel® Core™ i7 |
| Operating System | Windows 7 Ultimate 64-bit SP1 |
| Internal Memory | 8 GB RAM |
| User Interface | DS ControlPoint |
| Internal Storage (JBOD or RAID 5*) | |
| DSSRV | 500 GB, 3 TB, 6 TB, 9 TB, 12 TB, 15 TB, or 18 TB |
| DSSRV-DVD | 500 GB, 3 TB, 6 TB, 9 TB, or 12 TB |
| RAID Level | Internal RAID 5 (requires DSSRV-RAID controller card for hot-swappable drives)† |
| External Storage | Pelco's DX8100HDDI or third-party SCSI targets (requires optional DSSRV-SCSI) |
| System Drives | |
| DSSRV‡ | 6, 3.5-inch hard drive bays |
| DSSRV-DVD | 4, 3.5-inch hard drive bays |
| Optical Drive | DVD±RW with DSSRV-DVD |

*The minimum configuration for an internal RAID 5 is three hard disk drives. One hard disk drive of the RAID 5 configuration is used for parity, reducing net storage capacity by the storage capacity of one hard disk drive. For example, an 18 TB RAID system provides net storage of 15 TB.

†Requires an optional DSSRV-RAID controller card. The internal RAID 5 requires reimaging of the system.

‡DVD and non-DVD models are each different form factors. DVD models have only four drive bays; non-DVD models have six drive bays.

## REMOTE CLIENT PC REQUIREMENTS§

| | |
|---|---|
| Operating System | Microsoft® Windows® XP Professional SP2, Windows Vista® (32 or 64 bit), Windows 7 (32 or 64 bit) |
| Processor | 2nd Generation Intel® Core™ i7 3.4 GHz or higher |
| Memory | 4 GB DDR3 or higher |
| Graphics Card | 512MB or more dedicated memory |

§While the DS ControlPoint client can be run at the server, doing so can impact performance of the DSSRV. For optimum performance, run DS ControlPoint at a client station.

## NETWORK

| | |
|---|---|
| Interface | 2 Gigabit Ethernet RJ-45 (1000Base-T, non load balancing) |
| Auxiliary Interfaces | |
| USB Ports | 1 front (USB 2.0) |
| | 4 rear (2 USB 3.0; 2 USB 2.0) |

## POWER

| | |
|---|---|
| Power Input | 100 to 240 VAC, 50/60 Hz, autoranging |
| Power Supply | Internal |

| Power Consumption | Operating Maximum | | |
|---|---|---|---|
| | Watts | Amperes | BTU/H |
| 100 VAC / 50 Hz | 222.0 | 2.22 | 758.0 |
| 110 VAC / 50 Hz | 224.0 | 2.02 | 759.4 |
| 110 VAC / 60 Hz | 223.0 | 2.03 | 761.4 |
| 115 VAC / 50 Hz | 217.0 | 1.89 | 740.8 |
| 115 VAC / 60 Hz | 215.5 | 1.87 | 735.7 |
| 220 VAC / 50 Hz | 213.0 | 0.97 | 727.2 |
| 220 VAC / 60 Hz | 204.1 | 0.93 | 696.8 |
| 240 VAC / 50 Hz | 211.9 | 0.88 | 723.4 |
| 240 VAC / 60 Hz | 207.6 | 0.86 | 708.8 |

## CONNECTIONS

| | |
|---|---|
| Video Out | 2 DVI-D connectors, 1 VGA connector. A maximum of 2 video out connectors can be used.** |
| Audio Out | 1, 1/8-inch audio jack connector |

**Running the client software on the DSSRV NVR server degrades the performance of the server; therefore, running the DS ControlPoint remote client at one or more stations is recommended.

## FRONT PANEL INDICATORS/FUNCTIONS

| | |
|---|---|
| Buttons | Power |
| Indicators | |
| Unit Status | Green, amber, red |
| Primary Network | Green, amber, red |
| Secondary Network | Green, amber, red |
| Software Status | Green, amber, red (based on diagnostics) |
| Hard Disk Status | Green, red, off (behind bezel) |

## ENVIRONMENTAL

| | |
|---|---|
| Operating Temperature | 10° to 35°C (50° to 95°F) |
| Storage Temperature | –40° to 65°C(–40° to 149°F) |
| Operating Humidity | 20% to 80%, noncondensing |
| Maximum Humidity Gradient | 10% per hour |
| Operating Altitude | –15 to 3,048 m (–50 to 10,000 ft) |
| Operating Vibration | 0.25 G at 3 Hz to 200 Hz at a rate of 0.5 octave/minute |

**Note:** The temperature at the unit air intake can be significantly higher than room temperature. Temperature is affected by rack configuration, floor layout, air conditioning strategy, and other issues. To prevent performance failure and unit damage, make sure the temperature at the unit is continuously within the operating temperature range.

## PHYSICAL

| | |
|---|---|
| Dimensions | 50.8 x 43.4 x 8.9 cm (20" D x 17.1" W x 3.5" H) |

| Weight | Unit | Shipping |
|---|---|---|
| DSSRV-005 | 11.8 kg (26 lb) | 20.9 kg (46 lb) |
| DSSRV-030 | 11.8 kg (26 lb) | 20.9 kg (46 lb) |
| DSSRV-060 | 12.7 kg (28 lb) | 21.8 kg (48 lb) |
| DSSRV-090 | 13.6 kg (30 lb) | 22.7 kg (50 lb) |
| DSSRV-120 | 14.5 kg (32 lb) | 23.6 kg (52 lb) |
| DSSRV-150 | 15.4 kg (34 lb) | 24.5 kg (54 lb) |
| DSSRV-180 | 16.3 kg (36 lb) | 25.4 kg (56 lb) |
| DSSRV-005DVD | 12.7 kg (28 lb) | 21.8 kg (48 lb) |
| DSSRV-030DVD | 13.6 kg (30 lb) | 22.7 kg (50 lb) |
| DSSRV-060DVD | 14.5 kg (32 lb) | 23.6 kg (52 lb) |
| DSSRV-090DVD | 15.4 kg (34 lb) | 24.5 kg (54 lb) |
| DSSRV-120DVD | 16.3 kg (36 lb) | 25.4 kg (56 lb) |
| DSSRV-RD-090 | 13.6 kg (30 lb) | 23.6 kg (52 lb) |
| DSSRV-RD-012 | 14.5 kg (32 lb) | 24.3 kg (54 lb) |
| DSSRV-RD-015 | 15.4 kg (34 lb) | 25.2 kg (56 lb) |
| DSSRV-RD-018 | 16.3 kg (36 lb) | 26.1 kg (58 lb) |

# TECHNICAL SPECIFICATIONS

## MODELS

The following table describes the DSSRV and DSSRV-DVD model numbers. For example, the model number for a 12 TB, DSSRV device with a United Kingdom power cord is DSSRV-120-UK. The model number for a 6 TB, DSSRV-DVD device with an Australian power cord is DSSRV-060DVD-AU.

**Note:** Units shipped to China do not include power cords.

| Model | Storage | Country Code |
|---|---|---|
| **NVR Without Optical Disk Drive** | | US = North America<br>EU = Europe<br>UK = United Kingdom<br>CN = China<br>AU = Australia<br>AR = Argentina |
| DSSRV-005 | 500 GB | |
| DSSRV-030 | 3 TB | |
| DSSRV-060 | 6 TB | |
| DSSRV-090 | 9 TB | |
| DSSRV-120 | 12 TB | |
| DSSRV-150 | 15 TB | |
| DSSRV-180 | 18 TB | |
| **NVR With RAID Configuration** | | |
| DSSRV-RD-090 | 9 TB | |
| DSSRV-RD-012 | 12 TB | |
| DSSRV-RD-015 | 15TB | |
| DSSRV-RD-018 | 18TB | |
| **NVR With Optical Disk Drive** | | |
| DSSRV-005DVD | 500 GB | |
| DSSRV-030DVD | 3 TB | |
| DSSRV-060DVD | 6 TB | |
| DSSRV-090DVD | 9 TB | |
| DSSRV-120DVD | 12 TB | |

## SUPPLIED ACCESSORIES

| | |
|---|---|
| Power Cord | 1 USA standard, 1 based on country designation; all cables are 3 prong, molded connector, 1.8 m (6 ft)<br>**Note:** Units shipped to China do not include power cords. |
| USB Keyboard and Mouse | 1 |
| Bezel key | 2 |
| Rack Mount Kit | Brackets, rails, and hardware for mounting in a 2 RU rack |
| DSSRV-LIT | Documentation, resource and recovery discs |
| USB-DS | For non-DVD models; the USB stick is imaged with DS NVs and includes resource documentation |

## OPTIONAL ACCESSORIES

| | |
|---|---|
| DS-SW-CAM | DSSRV models include eight licenses for Pelco and third-party IP cameras. Additional DS-SW-CAM licenses can be purchased separately. |
| ENC5416 | Direct-attached analog encoder |
| ENC5400-4PORT | 4-port host card (analog) connects 4 ENC5416 |
| DSSRV-RAID | LSI 3Ware 9750-8i RAID controller card |
| DSSRV-SCSI | Adaptec® SCSI Card 29320LPE |
| DSHDD-005 | 500 GB upgrade/replacement drive |
| DSHDD-030 | 3 TB upgrade/replacement drive |

**Note:** Only joystick control is supported. Mouse operation is required to move between tear-off tabs in DS ControlPoint. Endura color-coded keys are not supported.

## CERTIFICATIONS/RATINGS

- CE, Class A; meets EN50130-4 standard requirements
- FCC, Class A
- UL/cUL Listed
- C-Tick
- CCC
- KCC
- S-Mark

## STANDARDS/ORGANIZATIONS

- Pelco is a member of the MPEG-4 Industry Forum
- Pelco is a member of the Universal Plug and Play (UPnP) Forum, Steering Committee
- Pelco is a member of the Universal Serial Bus (USB) Implementers Forum
- Pelco is a contributor to the Internal 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)
- Compliance, International Telecommunication Union (ITU) Recommendation G.711, "Pulse Code Modulation (PCM) of Voice Frequencies"
- Pelco is a member of the ONVIF Open Industry Forum

***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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