DS RealVue RAID Real-Time DVMS

INTEGRAL DIGITAL SENTRY® BROADCAST-QUALITY DVMS

Product Features

- 8-, 16-, or 32-Input Digital Video Management System (DVMS)
- MPEG-4 Video Compression
- Up to 720 x 480 (NTSC), 720 x 576 (PAL) Recording Resolution on 32 Channels Simultaneously at 30 Images per Second (ips) (NTSC), 25 ips (PAL)
- Supports Pelco IP Cameras with Sarix[™] HD Technology
- Supports the Recording of H.264 Streams from IP Cameras
- Redundant, Mirrored Data Storage for Fail-Safe Retention of Operating System, Video, and Audio Data
- Hot-Swappable Hard Drives to Avoid System Interruption or Video Loss
- Dynamic Camera Settings Based on Status, Including Alarm, Event, or Schedule
- Resolution, Quality, and Recording Rate Configurable per Individual Camera
- Integral Digital Sentry[®] Video Monitoring Software
- Support for up to 16 Standard IP Video Devices
- Detailed Reporting of System Settings and Configuration Changes
- Quick Export of Video to DVD Using the Easy Evidence Blue Button
- Easy Playback of Exported Video Without Additional Media Player
- 3-Year Limited Warranty
- Up to 32 Audio Inputs
- Simultaneous Display of Live Video and Replay of Alarm Event
- Variable Video Expiration

DS RealVue Digital Video Management Solutions (DVMS) are the security industry's most powerful 32-channel real-time digital video recorders. DS RealVue RAID can simultaneously record video from 32 cameras at 30 ips NTSC (25 ips PAL) at full D1 resolution. DS RealVue products are HD-enabled, capable of recording and displaying exceptional high-quality images captured by Pelco IP cameras with Sarix™ HD technology. This tight integration between product and technology makes DS RealVue a robust HD end-to-end solution. These broadcast-quality recorders are equipped with the Integral Digital Sentry® feature set required by high-security applications such as gaming, money counting, and corrections. MPEG-4 compression provides excellent image quality, smaller storage requirements, and reduced network bandwidth. DS RealVue recorders can seamlessly integrate with existing Digital Sentry management systems, combining real-time recorders with systems that record at lower frame rates to meet unique customer demands.

DS RealVue RAID offers a high level of fault tolerance and redundancy. Power supplies and hard drives are hot-swappable, so that the operating system data and recorded data remain safe and intact while the system continues to record. The internal RAID 10 or RAID 5 hard drives provide full redundancy of the operating system,





- Digital Zoom and On-Screen Pan/Tilt/Zoom (PTZ) Controls
- Email Notification of Alarm Events and System Messages
- Video Authentication
- Third-Party Integration with Over 25 Industry-Leading Devices
- Support for DS DataPoint Integration

video, and audio data. The unique external input/output (XIO) panel centralizes all video and audio connection points so that upgrade and service access is quick and simple. **DS RealVue RAID** reduces overall equipment space requirements by supporting up to 48 total cameras (32 analog and 16 IP) and up to 32 channels of audio in one recorder. The smaller file size increases the number of days of video that can be stored locally on a single system, lowering the overall system cost and making **DS RealVue RAID** an unmatched value in real-time video recording.

DS RealVue RAID is available in 8-, 16-, and 32-channel configurations. This hybrid solution supports up to 16 additional IP channels when connected to the same unit as the analog cameras. **DS RealVue RAID** also supports 32 channels of audio, which can be searched, played back, and exported in sync with video.

DS RealVue RAID supports the IT-focused Digital Sentry software suite that includes network health and event monitoring, video analytics, and archive utility.

TECHNICAL SPECIFICATIONS

SYSTEM

Operating System Windows® XP Professional

User Interface Digital Sentry Client or DS ControlPoint Internal Storage 1 TB RAID 10 or 1.5 TB RAID 5 (not

available on -8080 models)

VIDEO/AUDIO

Video Standards NTSC/PAL Video Encoding MPEG-4

Video Decoding iVEX, MPEG-4, MJPEG, wavelet

Video Resolutions

 Analog Cameras
 NTSC
 PAL

 D1
 720 x 480
 720 x 576

 2CIF
 720 x 240
 720 x 288

 CIF
 352 x 240
 352 x 288

 IP Channels
 NTSC
 PAL

HD Up to 5 megapixels (NTSC and PAL) 4CIF 704 x 480 704 x 576

4CIF 704 x 480 704 x 576 CIF 352 x 240 352 x 288

Analog Camera Inputs 8, 16, or 32 IP Camera Capacity 16

Recording Rate per Channel 30 ips (NTSC), 25 ips (PAL)

Audio Channels Up to 32
Codec MPEG1 Layer 2
Bits per Second 32 to 192 Kbps
Sampling Frequency 32 kHz

AUXILIARY CONNECTORS

 PTZ Interface
 RS-232, RS-422, RS-485

 Network
 10/100/1000Base-T

 Alarm Inputs
 15 dry contact

 Relay Output
 1 Form C

MECHANICAL

Connectors

Terminal Blocks Input triggers, audio inputs,

RS-422/RS-485, output relays

Dual-DB15, RCA Video inputs and output (expansion cable

included)

DB37 Input triggers, audio inputs,

RS-422/RS-485, output relays (expansion cable required)

(expansion cable required)

XIO Panel BNC for video in, video out; terminal

blocks for input/output triggers, audio inputs, RS-422/RS-485

41' 1 110D 0 0

USB 4 high-speed USB 2.0 ports; connect

mouse and keyboard

DB15 VGA port

RJ-45 Dual 10/100/1000 Megabit Ethernet

norts

6-Pin Mini-DIN PS/2 mouse and keyboard

Audio Connectors Miniature phono plug for line in, line out,

and microphone in

DB25 Printer (parallel)

Optional I/O Connectors

Audio Levels
Input Line-level input
Output Line-level output
Audio Connectors Terminal block
Audio Inputs Up to 32

Trigger Connectors Terminal block

Trigger Inputs Transistor-transistor logic (TTL), dry

contact to GND

Outputs Form C relay, contact closure

RS-422/RS-485 Terminal block

POWER

Input Voltage 100 to 240 VAC ±10%, 50/60 Hz Power Consumption 340 W (280 W sustaining)

PHYSICAL

DS RealVue RAID

Dimension 23" D x 19" W x 7" H (4RU) (58.42 x 48.26 x 17.78 cm)

Unit Weight 57 lb (25.9 kg) Shipping Weight 77 lb (34.9 kg)

XIO Panel

Dimension 4.0" D x 19.0" W x 3.3" H (2RU) (10.16 x 48.26 x 8.38 cm)

Unit Weight 4 lb (1.8 kg) Shipping Weight 6 lb (2.7 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

Minimum

Recommended

Internal Memory

Minimum

Recommended

Operating System
Minimum

Minimum Recommended

Video System Minimum Recommended Mr. I. VDII. Mr.

Technology Intel® Core™2 Duo 2.4 GHz

Windows XP Home or Windows Vista® Windows XP Professional SP 2

Pentium® 2.4 GHz with Hyper-Threading

128 MB RAM with DirectX® 9.0c Dual-head, 256 MB RAM with

DirectX 9.0c

512 MB 2 GB

CERTIFICATIONS

- CE, Class A
- FCC, Class A
- UL Listed

TECHNICAL SPECIFICATIONS

MODELS

DSX16164500-5

Systems Without Internal Data Storage (External Storage Required)

8 video inputs, 240 ips DSX16-8080 16 video inputs, 480 ips DSX32-8080 32 video inputs, 960 ips

Systems with Redundant Internal Data Storage

DSX084500 8 video inputs, 240 ips, 1000 GB RAID 10

internal storage

DSX084500-5 8 video inputs, 240 ips, 1500 GB RAID 5

internal storage

16 video inputs, 480 ips, 1000 GB DSX164500

RAID 10 internal storage

DSX164500-5 16 video inputs, 480 ips, 1500 GB RAID 5

internal storage

DSX16164500 16 video inputs/looping outputs, 480 ips,

1000 GB RAID 10 internal storage 16 video inputs/looping outputs, 480 ips,

1500 GB RAID 5 internal storage

DSX324500 32 video inputs, 960 ips, 1000 GB

RAID 10 internal storage

DSX324500-5 32 video inputs, 960 ips, 1500 GB RAID 5

internal storage

NOTE: For a DS RealVue RAID system configured as a video acquisition unit (VAU) for use with a Data Management Server (DMS), add "-V" to the end of the model number (not available with -8080 models). For example, valid model

numbers include DSX084500-V and DSX084500-5-V.

SUPPLIED ACCESSORIES

USB Keyboard **USB Mouse** Power Cord Keys

Resource Disc Recovery Disc **Documentation Disc**

XIO Panel XIO Cable DB-37 Cable RS-422 Cable Cat5 Cable P-140 Converter

OPTIONAL ACCESSORIES

KBD300A KBD300A Desktop keyboard with full

switching and programming capabilities, plus joystick control of PTZ functions

KBDKIT Remote keyboard wiring kit. Required

when using a single keyboard in ASCII Mode. Includes two RJ-45 wall blocks and one 120 VAC to 12 VAC transformer. Maximum cable distance for RS-422/RS-485 communication over

24-gauge wire is 4,000 feet (1,219 m). Use shielded twisted pairs cable that meets basic requirements for RS-422/RS-485 applications. (One wall

block and transformer is required for

each keyboard.)

KBDKIT-X Same as KBDKIT except includes

230 VAC to 12 VAC transformer

RS-422/RS-232 converter kit with PV140

12 VDC power supply

TECHNICAL SPECIFICATIONS

OPTIONAL DS REALVUE RAID HARDWARE

DSRVXIO16-SP Spares kit for 16-channel

DS RealVue RAID

DSRVXIO32-SP Spares kit for 32-channel

DS RealVue RAID

3590-40046 500 GB hard drive upgrade kit

DS REALVUE RAID UPGRADES

3590-40043 Upgrade from 8 to 16 video channels 3590-40044 Upgrade from 8 to 32 video channels 3590-40045 Upgrade from 16 to 32 video channels

IP CAMERA LICENSES

(Required for Each Connected IP Camera)

DS-SW-CAM IP camera license for IP camera or analog

camera connected to IP encoder

DS-SW-CAM-P IP camera license if camera or device is

purchased from Pelco

DS-SW-CAM-P4 IP camera license for IP quad camera or

4-port converter if purchased from Pelco

OPTIONAL EXTERNAL STORAGE

(Available Only with 8080 Storage Capacity)

3530-10030-ADD SATABoy™ external storage, 8 drives,

hot-swappable 3.0 TB RAID 5

3530-10031-ADD SATABoy external storage, 14 drives,

hot-swappable 6.0 TB RAID 5

3590-00411 SATABoy SATA 500 GB hard drive

(includes carrier)

3590-01055 SATABoy daisy chain SCSI cable

6990-00299 SATABoy power supply

3590-01059 SATABoy spare parts kit (includes daisy

chain cable, power supply, and 500 GB

hard drive)

3530-10040-ADD SATABeast™ external storage, 42 drives,

hot-swappable 18.0 TB RAID 5

3590-00041 SATABeast SATA 500 GB hard drive

(includes carrier)

3590-00042 SATABeast 3-meter fiber cable 3590-00043 SATABeast power supply

3590-00044 SATABeast spare parts kit (includes fiber

cable, power supply, and 500 GB hard

drive)

3530-10051-ADD SATA 404S, 4 drives, hot-swappable

1.5 TB RAID 5

3530-10052-ADD SATA 404S, 4 drives, hot-swappable

2.0 TB JBOD

3530-10053 SATA 404S SATA 500 GB hard drive

(includes carrier)

3530-10054 SATA 404S daisy chain SCSI cable

(DVMS to storage)

3530-10055 SATA 404S daisy chain SCSI cable

(storage-to-storage)

3530-10056 SATA 404S power supply (not

hot-swappable)

3530-10057 SATA 404S spare parts kit (includes two

daisy chain cables, power supply, and

500 GB hard drive)

OPTIONAL SOFTWARE

AUSRV-SW-1L Archive utility server software license for

first DVMS unit

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

3590-00502 Active Alert™ 2-camera video analytics 3590-00504 Active Alert 4-camera video analytics

OPTIONAL INTRAVUE NETWORK HEALTH AND EVENT MONITORING APPLICATION

ITNMS-016 48 analog nodes; 16 IP nodes/host
ITNMS-032 96 analog nodes; 32 IP nodes/host
ITNMS-064 192 analog nodes; 64 IP nodes/host
ITNMS-128 384 analog nodes; 128 IP nodes/host
ITNMS-256 768 analog nodes; 256 IP nodes/host
ITNMS-512 1,536 analog nodes; 512 IP nodes/host
ITNMS-ULTD Unlimited analog nodes; 1,024 IP

nodes/host

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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