DS 1000 Hybrid Digital Video Recorder INTEGRAL DIGITAL SENTRY® DVMS OPTIMIZED FOR MAINSTREAM APPLICATIONS

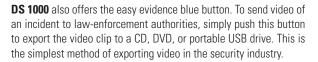
Product Features

- 16- or 32- Input Digital Video Management System
- MPEG-4 Video Compression
- Support for Standard IP Video Devices
- Support for IP Cameras and Analog Cameras Simultaneously on a Single System
- Supports Pelco IP Cameras with Sarix[™] HD Technology
- Supports the Recording of H.264 Streams from IP Cameras
- Detailed Reporting of System Settings and Configuration Changes
- Quick Review of up to 1 Hour of Video
- Quick Export of Video to DVD by Pushing the Easy Evidence Blue Button
- Easy Playback of Exported Video Without Additional Media Player
- 3-Year Limited Warranty
- Resolution, Quality, and Recording Rate Configurable per Individual Camera
- Up to 2 TB of Hard Drive Storage
- Up to 16 Audio Inputs
- 15 Alarm Inputs and 1 Relay Output
- Support for DS DataPoint Integration

DS 1000's channel count, frame rate, and compression technology provide a perfect solution for today's converging mainstream applications. **DS 1000** offers MPEG-4 compression in 16- and 32-channel configurations and records 5 to 10 images per second (ips). The MPEG-4 compression technology provides superior image quality while maintaining decreased file sizes. **DS 1000** supports up to 16 IP cameras along with analog cameras. It is also 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 1000** a robust HD end-to-end solution.

Through a single user interface, users can monitor multiple **DS 1000** systems along with any other Integral Digital Sentry[®] Digital Video Management System (DVMS). **DS 1000** also supports the complete Integral IT software suite consisting of archive utility and network health monitoring.





DS 1000 supports up to 2 TB of internal storage, which meets the requirements of most applications. Mass storage options are also available for additional storage requirements, providing overall flexibility and scalability.

DS 1000's standard feature set and functionality provide a perfect convergence solution for the mainstream market. By simultaneously supporting IP and analog cameras on the same system, **DS 1000** offers a truly flexible hybrid.

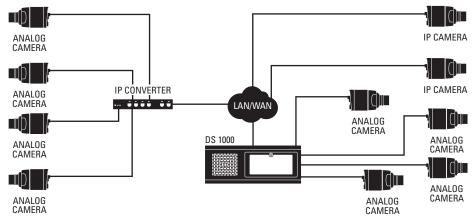


International Standards Organization Registered Firm; ISO 9001 Quality System C3667 / REVISED 3-19-09

TECHNICAL SPECIFICATIONS

APPLICATIONS

DS 1000 is a hybrid solution, allowing users to manage and monitor both analog and IP cameras on the same system. This allows users to leverage analog cameras that are already installed while benefitting from new IP cameras. A 16-channel DS 1000 system can support up to 16 analog channels as well as an additional 16 IP channels, for a total of 32 channels. A 32-channel DS 1000 can support up to 32 analog channels as well as an additional 8 IP channels, for a total of 40 channels.



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

Operating System User Interface Internal Storage

VIDEO/AUDIO

Video Standards Video Encoding Video Decodina Video Resolutions CIF (IP or analog) 4CIF (IP cameras) HD (IP cameras) Analog Camera Inputs DS 1000-F16 DS 1000-F32 IP Camera Capacity DS 1000-F16 DS 1000-F32 **Recording Rate**

500 GB. 1 TB. or 2 TB NTSC/PAL

Windows® XP Professional

Digital Sentry or DS ControlPoint

MPEG-4 iVEX. MPEG-4. MJPEG. wavelet NTSC PAL 352 x 240 352 x 288 704 x 576 704 x 480

Up to 5 megapixels (NTSC and PAL)

16 32

16

DS 1000-F16 (analog) DS 1000-F32 (analog)

IP Recording Rate (CIF) IP Recording Rate (4CIF) IP Camera Resolution Audio Channels Codec

Bits Per Second

Sampling frequency

8 10 ips per channel 5 ips per channel NTSC PAL 25 30 7.5 61 Up to 5 megapixels (NTSC and PAL) Up to 16 MPEG1 Laver 2 32 to 192 Kbps 32 kHz

RS-232, RS-422, RS-485

10/100/1000Base-T

15 dry contact

1 Form C

AUXILIARY INTERFACES

PTZ Interface Network Alarm Inputs Relay Output

MECHANICAL

Connectors BNC Video inputs and outputs Terminal Blocks output relays USB 6 high-speed USB 2.0 ports DB15 VGA port DVI Digital Video Interface 1394 1394 (not used) RJ-45 10/100/1000 Megabit Ethernet port Audio Connectors

Optional I/O Connectors

Audio Levels Input Output Audio Connectors Audio Inputs Trigger Connectors **Trigger Inputs** Outputs RS-422/RS-485

Input triggers, audio inputs, RS-422/RS-485, Miniature phono plug for line in, line out, and microphone in (not used)

Line-level input Line-level output Terminal block Up to 16 Terminal block TTL, drv contact to GND Form C relay, contact closure Terminal block

POWER

Input Voltage Power Consumption

PHYSICAL

Dimensions Unit Weight

Shipping Weight

Operating Temperature

50° to 95°F (10° to 35°C) -40 to 149°F (-40 to 65°C) 20% to 80%, noncondensing -50 to 10,000 ft (-15 to 3,048 m)

REMOTE PC CLIENT REQUIREMENTS

Processor Minimum Recommended Internal Memory Minimum

Recommended

Recommended

Operating System

Minimum

Video System

Minimum

Pentium[®] 2.4 GHz with Hyper-Threading Technology Intel[®] Core[™]2 Duo 2.4 GHz

Windows XP Professional SP 2

Dual-head, 256 MB RAM with DirectX 9.0c

- CE, Class A
- FCC, Class A
- UI Listed

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.

21" D x 19" W x 7" H (4 RUs) (53.34 x 48.26 x 17.78 cm) 40 lb (18.1 kg) 54 lb (24.5 kg)

100 to 240 VAC ±10%, 50/60 Hz

310 W maximum (280 W sustaining)

Storage Temperature **Operating Humidity** Operating Altitude **Operating Vibration**

ENVIRONMENTAL

0.25 G at 3 Hz to 200 Hz at a sweep rate of 0.5 octave/min.

512 MB 2 GB

Windows XP Home or Windows Vista®

128 MB RAM with DirectX® 9.0c

Recommended **CERTIFICATIONS**

MODEL NUMBERS

Use the following table to create a model number to specify your DS 1000. For example, the model number for a 32-channel system with 500 GB storage is DSF32500. The model number for a 16-channel system with 2000 GB storage is DSF162000.

DSF Channels Storage (GB)	
Channels	Storage in GB
16	500
32	1000
	2000

SUPPLIED ACCESSORIES

USB Keyboard
USB Mouse
Power Cord
Keys
Resource CD
Recovery CD
Documentation CD

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
PV140	RS-422/RS-232 converter kit with 12 VDC power supply

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 SOFTWARE

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

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OPTIONAL EXTERNAL STORAGE

3530-10030-RVSATABoy" external storage, 8 drives, hot-swappable 3.0 TB RAID 53530-10031-ADDAdditional 3.0 TB RAID 5 external storage unit (an additional three units can be daisy-chained to the first unit)3530-10031-RVSATABoy external storage, 14 drives, hot-swappable 6.0 TB RAID 53530-10031-ADDAdditional 6.0 TB RAID 5 external storage unit (an additional three units can be daisy-chained to the first unit)3590-00411SATABoy SATA 500 GB hard drive (includes carrier)3590-01055SATABoy daisy chain SCSI cable6990-00299SATABoy pare parts kit (includes daisy chain cable, power supply, and 500 CB hard drive)3530-10040-RVSATABoy spare parts kit (includes daisy chain cable, power supply, and 500 CB hard drive)3530-10040-RVSATABoast SATA 500 GB hard drive, icable, power supply, and 500 GB hard drive)3530-10040-ADDAdditional 18.0 TB RAID 53530-10040-ADDAdditional 18.0 TB RAID 53530-10040-ADDAdditional 18.0 TB RAID 53530-10041SATABeast SATA 500 GB hard drive (includes carrier)3590-00042SATABeast SATA 500 GB hard drive (includes carrier)3530-10051-RVSATA 404S, 4 drives, hot-swappable 1.5 TB RAID 53530-10051-RVSATA 404S, 4 drives, hot-swappable 2.0 TB JBOD3530-10052-RVSATA 404S daisy chain SCSI cable (DVMS to storage)3530-10054SATA 404S daisy chain SCSI cable (DVMS to storage)3530-10055SATA 404S daisy chain SCSI cable (brange to daisy-chained to the first unit)3530-10056SATA 404S spare parts kit (includes two daisy chain cabl	UPTIONAL EXTERNA	LSTURAGE
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	3530-10057	chain cables, power supply, and 500 GB hard

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

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