

# DS Desktop Digital Video Management System

## VIDEO MANAGEMENT HARDWARE FOR USE WITH INTEGRAL DIGITAL SENTRY® SOFTWARE



### Product Features

- Digital Video Management System (DVMS) Available with 4, 9, or 16 Video Inputs
- Advanced iVEX Compression
- Supports Pelco IP Cameras with Sarix™ HD Technology
- Supports the Recording of H.264 Streams from IP Cameras
- Records up to 120 Images Per Second (ips) Over 16 Analog Cameras
- Records Video from IP Cameras at up to 15 ips at 352 x 240 (NTSC) or 5 ips at 704 x 480 (NTSC)
- Integral Digital Sentry® Video Monitoring Software
- Easy Evidence Blue Button Allows Quick Export of Video and Audio to DVD
- Quick Review of up to 90 Minutes of Video
- Internal Storage up to 500 GB
- 4 Audio Inputs
- FlashGUARD Watchdog Sends Alerts When System Fails or Powers Down
- Remote Administration
- Immediate Video Authentication



- 1-Week Graphical Display of Recorded Video
- 3-Year Limited Warranty
- Support for DS DataPoint Integration

**DS Desktop** is a desktop DVMS perfect for schools, branch offices, or remote sites where space requirements are limited. **DS Desktop** is available with 4, 9, or 16 video channels and provides high compression ratios and maximum storage. Automated service monitoring and recovery are available through the FlashGuard device, which includes a relay output for external notification. **DS Desktop** supports up to 16 IP cameras in a hybrid configuration and up to four channels of video analytics. 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.

Integral Digital Sentry® world-class security software provides IT-focused, scalable solutions that allow users to manage all data and hardware devices from a single client user interface. Open architecture

is the cornerstone of the Digital Sentry design, and users can choose IP cameras or encoders that fit their application. **DS Desktop** 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. Digital Sentry customers also benefit from IT-focused software applications including the SNMP-based network health and event monitoring application and Archive Utility, a flexible long-term storage application.

All DS systems run the same Digital Sentry software, allowing users to combine the DS hardware that fits the specific application. Users can also monitor video, audio, and transactional data from the DVMS through the DS ControlPoint client user interface.



# TECHNICAL SPECIFICATIONS

## SYSTEM

Operating System	Windows® XP Professional
User Interface	Digital Sentry Client or DS ControlPoint
Internal Storage	250 GB or 500 GB

## VIDEO/AUDIO

Video Standards	NTSC/PAL	
Video Encoding	iVEX	
Video Decoding	iVEX, MPEG-4, MJPEG, wavelet	
Video Resolutions		
Analog Cameras	<u>NTSC</u>	<u>PAL</u>
4CIF	704 x 480	704 x 576
2CIF	704 x 240	704 x 288
CIF	352 x 240	352 x 288
IP Channels	<u>NTSC</u>	<u>PAL</u>
HD	Up to 5 megapixels (NTSC and PAL)	
4CIF	704 x 480	704 x 576
CIF	352 x 240	352 x 288
Analog Camera Inputs	4, 9, or 16	
IP Camera Capacity	16	
Recording Rate per Channel	<u>NTSC</u>	<u>PAL</u>
	30 ips	25 ips
IP Recording Rate (16 Channels)	<u>NTSC</u>	<u>PAL</u>
At 4CIF Resolution	5 ips	4.2 ips
At CIF Resolution	15 ips	12.5 ips
Audio Channels	4	
Codec	MPEG1 Layer 2	
Bits per Second	32 to 192 Kbps	
Sampling Frequency	32 kHz	

## AUXILIARY INTERFACES

PTZ Interface	RS-232, RS-422, RS-485
Network	10/100/1000Base-T
Alarm Inputs	16 dry contact
Alarm Outputs	1

## MECHANICAL

### Connectors

BNC	Video inputs and outputs
Terminal Blocks	Input triggers, audio inputs, RS-422/RS-485, output relays
USB	6 high-speed USB 2.0 ports
DB15	VGA port
DVI	Digital Video Interface
1394	(not used)
RJ-45	10/100/1000 Megabit Ethernet port
Audio Connectors	Miniature phono plug for line in, line out, and microphone in

### Optional I/O Connectors

Audio Levels	
Input	Line-level input
Output	Line-level output
Audio Connectors	Terminal block
Audio Inputs	4
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

# TECHNICAL SPECIFICATIONS

## POWER

Input Voltage	100 to 240 VAC $\pm$ 10%, 50/60 Hz
Power Consumption	300 W maximum

## PHYSICAL

Dimension	15.00" D x 13.00" W x 5.25" H (38.10 x 13.34 x 13.34 cm)
Unit Weight	20 lb (9.07 kg)
Shipping Weight	32 lb (14.51 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/minute

## REMOTE PC CLIENT REQUIREMENTS

Processor	
Minimum	Pentium® 2.4 GHz with Hyper-Threading Technology
Recommended	Intel® Core™2 Duo 2.4 GHz
Internal Memory	
Minimum	512 MB
Recommended	2 GB
Operating System	
Minimum	Windows XP Home or Windows Vista®
Recommended	Windows XP Professional SP 2
Video System	
Minimum	128 MB RAM with DirectX® 9.0c
Recommended	Dual-head, 256 MB RAM with DirectX 9.0c

## CERTIFICATIONS

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

# TECHNICAL SPECIFICATIONS

## MODELS

3540-04160	4 video inputs, 160 GB storage, 20 ips recording rate
3540-04250	4 video inputs, 250 GB storage, 20 ips recording rate
3540-04500	4 video inputs, 500 GB storage, 20 ips recording rate
3540-09250	9 video inputs, 250 GB storage, 120 ips recording rate
3540-09500	9 video inputs, 500 GB storage, 120 ips recording rate
3540-16250	16 video inputs, 250 GB storage, 120 ips recording rate
3540-16500	16 video inputs, 500 GB storage, 120 ips recording rate
3540-161000	16 video inputs, 1000 GB storage, 120 ips recording rate
3541-04160	4 video inputs, 160 GB storage, 120 ips recording rate
3541-04250	4 video inputs, 250 GB storage, 120 ips recording rate
3541-04500	4 video inputs, 500 GB storage, 120 ips recording rate

## SUPPLIED ACCESSORIES

USB Keyboard  
USB Mouse  
Power Cord  
Resource Disc  
Recovery Disc  
Documentation Disc

## 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 EXTERNAL STORAGE

3590-01068	DS DataPoint 2.0 kit, 4-channel system
------------	--

## 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.

### Pelco, Inc. Worldwide Headquarters:

3500 Pelco Way, Clovis, California 93612-5699 USA

**USA & Canada** Tel (800) 289-9100 • FAX (800) 289-9150

**International** Tel +1 (559) 292-1981 • FAX +1 (559) 348-1120

[www.pelco.com](http://www.pelco.com)

Pelco, the Pelco logo, Digital Sentry, and the Digital Sentry logo are registered trademarks of Pelco, Inc. Sarix is a trademark of Pelco, Inc.

All product names and services identified throughout this document are trademarks or registered trademarks of their respective companies. The absence of a trademark or registered trademark from this document does not constitute a waiver of intellectual property rights.

Product specifications and availability subject to change without notice.

©Copyright 2009, Pelco, Inc. All rights reserved.