

# DX8100 Series Digital Video Recorder

8/16/24/32 CAMERA INPUTS, 250 GB-3 TB STORAGE, ADVANCED SEARCH CAPABILITIES

## PRODUCT FEATURES

- Interoperable with DX8000 DVRs
- 16-Channel Expansion Box Option
- Maximum Increased Storage Capacity of 3 TB and External Storage RAID Option with DX9200 HDDI
- Increased Frame Rate for 2CIF and 4CIF Recording
- Standard Analog Output
- 10/100/1000 Gigabit Ethernet Port
- Multicasting
- NTP Time Server Compatible
- Standard DVD-R Burner Writes to CD-R and DVD-R Media
- Up to 704 x 480 Recording Resolution (4CIF)
- Up to 32 Camera Inputs and Outputs with Auto Termination
- KBD300A Keyboard Support for Camera Selection and PTZ Control
- Third-Party Dome Support



(THE KBD300A IS NOT INCLUDED.)

- Multi-Event Recording Schedules
- ATM/POS Data Interface Support
- Up to 100 Simultaneous Client-to-Server Connections

**The Choice for Professional Security** – As your business grows and becomes more diversified, you need a professional digital video recorder (DVR) that can grow with and also stay a step ahead of your business security requirements. Your security application might require more cameras or DVR software that provides even more sophisticated operation and control features. The **DX8100 Series** digital video recorders (DVRs) bring to market a new and innovative hardware platform that is powered by unparalleled and unique high-performance software. The DX8100 is expandable to meet your future security requirements.

The DX8100 is interoperable with your existing DX8000 DVRs, allowing you to build upon your existing DX8000 security system. A DX8100 client can operate and administer a DX8100 and DX8000 in the same network.

When you need to quickly and easily add more security cameras, the new DX8100-EXP 16-channel expansion unit extends the 8- or 16-channel DX8100 to 24 or 32 channels. With or without the channel expansion unit, all of the cameras can now take advantage of the increased frame rate of 2CIF and 4CIF recording. The DX8100 records video up to 480 images per second (ips) at a maximum CIF image size.

If your security project demands increased storage capacity, you can extend recorded internal storage up to 3 TB. With the optional DX9200 HDDI, you can further increase the DX8100 storage capacity. Alternately, you can use the DX9200 HDDI as a redundant RAID solution.

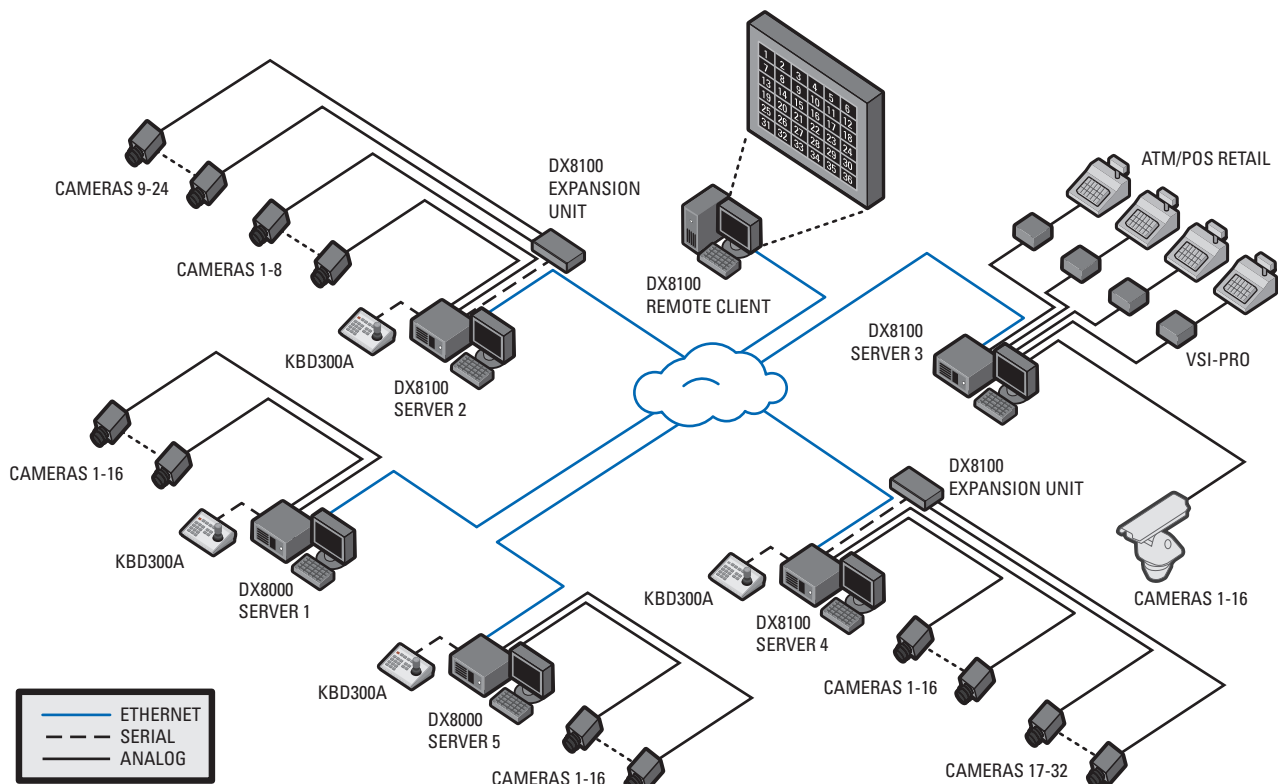
As your audio security needs grow, use the DX8108-AUD or DX8116-AUD audio option to add a total of 8 or 16 audio inputs.

Sophisticated video security applications require a network of DVRs to monitor multiple locations. The 10/100/1000 gigabit Ethernet port supports today's high-speed networks. You can network your DX8100s and DX8000 systems and remotely operate the DVRs for continuous, motion detection, alarm, ATM/POS, normal scheduled recording, and administer and view live and playback video. For time-critical security applications, you must ensure that all video recordings are synchronized to an accurate time source. The DX8100 supports the Network Time Protocol (NTP), which allows you to synchronize all networked DX8100s to one NTP time server.

The DX8100 is the professional choice for your security application.



# TECHNICAL SPECIFICATIONS



## APPLICATIONS

The DX8100 interacts as a comprehensive system, easily integrating into your existing DX8000 network. The DX8100 adds many new features, for example DX8100 server-to-DX8000 server connectivity, multicasting, and carries forth all existing DX8000 features including KBD300A keyboard compatibility, viewing up to 36 images simultaneously, and direct connection to ATM/POS devices and other serial devices.

## ADDITIONAL FEATURES

- 36 Camera Views for DX8100 Server or Client
- On-Line Help
- Up to 32 Channels of Audio Recording (Optional)
- 8/16/24/32 Alarm Inputs and 8/16/24 Relay Outputs
- Camera View Favorites
- Instant Playback
- Quick Menu Option to Turn Relays On/Off
- Live Audio Over the Network
- Video Loss Event Start and Recovery Time
- Video Loss Event Linked to an Alarm
- Up to 480 IPS Recording Rate at 320 x 240 Resolution (NTSC)
- Up to 100 Servers in Client Tree
- Connect Any Five DX8100 Servers in a Network or Any Combination of DX8100 and DX8000 DVRs
- Network Bandwidth Throttling
- Multiple Displays for Live Viewing or Playback While Recording
- 6X Digital Zoom on Playback
- Pre-Motion and Pre-Alarm Recording
- On-Screen PTZ Control with Positioning Device Programming Capability
- Includes Remote PC, Web, and Handheld Client Software
- Pelco-Engineered Compression Technology Offering High-Quality and Small File Sizes
- Local and Remote Administration, Live, Search, and Playback Viewing
- Individual Camera Channel Configuration
- Display of Cameras from Different Sites on One Screen
- Dynamically Adjustable Frame Rate and Image Quality for Motion and Alarm Recording and Pre-Alarm Recording
- Pre-Alarm Recording up to 60 Seconds (up to 15 Minutes with Optional 512 MB RAM Upgrade)\*
- Monitor System Changes Using Activity Logs
- User-Friendly and Highly Intuitive Graphical User Interface
- Local and Remote Software Upgrade Capabilities
- Multilevel Password and User Configuration
- Automatic Image Watermarking
- Multilanguage Support (English, French, German, Italian, Polish, Portuguese, Russian, and Spanish)
- User-Definable PTZ Presets, Patterns, and Preset Tours
- Display up to 36 Local and Remote Cameras on a Single Screen Only in CIF
- Print Still Images from Video
- Export Video and Still Images in Multiple Formats, Including DX8100 Native, AVI, ASF, BMP, TIFF, and JPEG
- API Facilitates Development and Integration of Third-Party Applications
- Ability to Configure Any Number of Camera Inputs for Covert Mode
- Scheduled Backup

\*Pre-alarm time estimate based on 16-channel recording at a resolution of 320 x 240 (CIF) and a frame rate of 5 ips.

# TECHNICAL SPECIFICATIONS

## ELECTRICAL/VIDEO

Input Voltage	100-240 VAC ±10%, 50/60 Hz, autoranging**														
Power Consumption	Maximum 350 watts														
Signal System	NTSC/PAL														
Operating System	Windows® 2000 and Service Pack 4														
Recording Resolutions	<table> <tr> <td>NTSC</td> <td>PAL</td> </tr> <tr> <td>320 x 240</td> <td>320 x 288</td> </tr> <tr> <td>640 x 240</td> <td>640 x 288</td> </tr> <tr> <td>640 x 480</td> <td>640 x 576</td> </tr> <tr> <td>352 x 240</td> <td>352 x 288</td> </tr> <tr> <td>704 x 240</td> <td>704 x 288</td> </tr> <tr> <td>704 x 480</td> <td>704 x 576</td> </tr> </table>	NTSC	PAL	320 x 240	320 x 288	640 x 240	640 x 288	640 x 480	640 x 576	352 x 240	352 x 288	704 x 240	704 x 288	704 x 480	704 x 576
NTSC	PAL														
320 x 240	320 x 288														
640 x 240	640 x 288														
640 x 480	640 x 576														
352 x 240	352 x 288														
704 x 240	704 x 288														
704 x 480	704 x 576														
Compression	Pelco engineered														
Video Inputs	8/16/24/32 (looping with automatic termination)														
VGA Outputs	1														
Analog Video Outputs	1 (2 with 16-channel expansion kit)														
Alarm Input Terminals	8/16/24/32 (user selectable, N.O./N.C.)														
Relay Output Terminals	8/16/24 (user selectable, N.O./N.C.)														
Relay Contact Ratings***															
Rated (Resistive) Load	0.5 A at 120 VAC or 1 A at 24 VDC														
Remote Administration	Full remote control via TCP/IP network														
Total Recording Rate	Up to 480 ips at CIF Up to 240 ips at 2CIF Up to 120 ips at 4CIF														

## MECHANICAL

Connectors	
BNC	Video inputs and outputs
6-pin mini-DIN	PS/2 mouse and keyboard
DB9	COM 1
DB15	VGA port
RJ-45	Gigabit Ethernet port (1000BaseT) and RS-485/RS-422 ports
USB	Six high-speed USB 2.0 ports (2 front, 4 back)
Audio Connectors	One miniature phone jack for audio output

## GENERAL

Environmental	
Operating Temperature	50° to 95°F (10° to 35°C)
Relative Humidity	Maximum 80%, noncondensing
Dimensions	
Desktop	7.0 (H) x 17 (W) x 19.9 (D) inches (17.78 x 43.18 x 50.55 cm)
Rack Mount	7.0 (H) x 19.0 (W) x 22 (D) inches (4 RUs) (17.78 x 48.26 x 55.88 cm)

Minimum and maximum unit and shipping weights are given for each model series.

Unit Weight (Approximate)	Unit	Shipping
DX8108-250	39.8 lb (18.1 kg)	61.0 lb (27.6 kg)
DX8108-3000	44.9 lb (20.4 kg)	67.0 lb (30.4 kg)
DX8116-250	40.3 lb (18.3 kg)	62.0 lb (28.0 kg)
DX8116-3000	45.4 lb (20.6 kg)	67.0 lb (30.4 kg)
DX8124-250	40.8 lb (18.5 kg)	62.0 lb (28.0 kg)
DX8124-3000	45.9 lb (20.8 kg)	68.0 lb (30.8 kg)
DX8132-250	41.3 lb (18.7 kg)	63.0 lb (28.5 kg)
DX8132-3000	46.4 lb (21.1 kg)	68.0 lb (30.8 kg)

## CERTIFICATIONS

- CE, Class B
- UL Listed
- UL Listed to Canadian Safety Standards
- FCC, Class B

At the time of this printing, other certifications are pending. Please consult the factory, our website ([www.pelco.com](http://www.pelco.com)), or the most recent B.O.S.S.® update for the current status of certifications.

## REMOTE PC CLIENT APPLICATION

### Recommended PC Requirements

Processor	Intel® Pentium® 4 with 2800 MHz minimum processor speed
Memory	256 MB RAM
Video	AGP or PCI-e VGA card with minimum 64 MB video RAM (nonshared memory), 1024 x 768 or 1280 x 1024 display resolution, and DirectX® 8.1 application programming interface.
Monitor	SVGA or XGA with 1024 x 768 or 1280 x 1024 resolution
Operating system	Windows 2000 (SP4) or Windows XP Professional DirectX 8.1 or better Microsoft Internet Explorer 5.5 or later 500 MB free disk space
Mobile PDA Client Application	A Pocket PC with Microsoft PPC 2002 or higher, Intel XScale® CPU with minimum 64 MB of memory

## DX8100 SERVER MAXIMUM IPS

Format	NTSC IPS		PAL IPS	
	Total	Per Camera	Total	Per Camera
CIF	480	30	400	25
2CIF	240	15	200	12.5
4CIF	120	7.5	100	6

The DX8100 can record at frame rates up to 480 IPS NTSC and 400 IPS PAL. The total frame rate capacity is distributed among 8/16/24/32 cameras, depending on the configuration of your unit. Resolution and frame rate values can be assigned evenly among all cameras or can be configured independently for individual cameras. Frame rate values can also be customized according to recording mode (normal, motion, alarm, and ATM/POS).

\*\* It is recommended that an Uninterruptible Power Supply (UPS) device be used with the DX8100 with a 700 VA or better rating.

\*\*\*Relays are grounded.

# TECHNICAL SPECIFICATIONS

## MODEL NUMBERS

Use the following table to create a model number to specify your DX8100. For example, the model number for a 32-channel system with 1000 GB storage and audio input option is DX8132-1000A. Typically, if an audio option is ordered, a 32-channel system comes with a 32-channel audio option.

The model number for a customized system is specified differently. For example, a 32-channel system with 1000 GB storage and an 8-input audio option is stated as follows: DX8132-1000 (32 video channels) and you order the DX8100-AUD option (8 audio inputs) separately. For more information about ordering customized configurations, contact your Pelco sales representative.

DX81XX – XXXXXX		
Channels		
Storage (GB)		
Options		
Channels	Storage in GB	Options
8	250	M = MUX
16	500	A = Audio
24	750	MA = MUX and Audio
32	1000	
	1500	
	2000	
	2250	
	3000	

## Supplied Accessories

Power cords (USA and European), keyboard, PS/2 mouse, DX8100 recovery CD, remote client application CD, audio input breakout cables (optional), alarm and relay terminal blocks, and rack mounting kit. (Monitor is not supplied with DX8100 Series DVR.)

## Optional Accessories

DX8100-EXP	DX8100 16-channel expansion unit kit
DX8100-ISCI	DX8100 internal Ultra 160 SCSI card****
DX8108-MUX	DX8100 8-channel multiplexed analog output display card
DX8116-MUX	DX8100 16-channel multiplexed analog output display card
DX8108-AUD	DX8100 8-channel audio input card
DX8116-AUD	DX8100 16-channel audio input card
DX8100-512RAM	DX8100 memory upgrade from 512 MB to 1 GB
DX9200HDDI	External RAID storage expansion unit
KBD300A	KBD300A Universal keyboard (requires KBDKIT)
KBDKIT	Remote keyboard wiring kit
VSI-PRO	AVE Video serial interfaces for ATM/POS*****

\*\*\*\* Not available with DX8124-XXXXMA or DX8132-XXXXMA models.

\*\*\*\*\* The VSI-PRO and required cabling is available from AVE.

## THIRD-PARTY DOME SUPPORT

The DX8100 Series is compatible with the third-party domes listed below. Consult the factory for information on additional dome compatibility.

Manufacturer	Model
GE (Kalatel)	CyberDome™
LG	LPT-SD163
Panasonic	WV-CW864
Samsung	SCC-641
Vicon	V1311RB-3W

