

# DX4104 Series Digital Video Recorder

## H.264 STANDARD DEFINITION DVR, 4 CAMERA INPUTS, UP TO 2 TB STORAGE

### Product Features

- 4 Looping Analog Channels
- H.264 Hardware Compression
- Up to 704 x 480 (NTSC), 704 x 576 (PAL) Recording Resolution
- Up to 120 (NTSC)/100 (PAL) Images Per Second (ips) Recording Rate at 352 x 240/352 x 288 Resolution for NTSC/PAL Respectively
- Independent Channel Resolution, Quality, and Frame Rate Settings
- Full-Function Remote Client
- HDD Storage Manager
- Scheduled Backup to USB or Optional DVD Device

The **DX4104 Series** digital video recorder (DVR) is the next generation of an affordable entry-level DVR. The unit is designed for the entry-level market that requires one to four camera inputs, powerful video storage management with efficient H.264 compression, multi-event recording, quick and easy to use graphical user interface (GUI), internal storage capacity up to 2 TB, and remote client connectivity to as many as 100 **DX4104** units. The **DX4104** not only replaces the traditional VCR and multiplexer combination, it provides a solution that scales from stand-alone to networked.

### VIDEO STORAGE MANAGEMENT

User-configurable disk partitioning is used to allocate specific hard disk space for storing continuous video data and event-initiated video data. This allows you to configure the unit to allocate longer storage time for alarm and motion recorded video. All recorded video is compressed and stored using the latest H.264 compression technology.

### RECORDING MODES

The **DX4104** supports single-event and multi-event (a combination of normal, alarm, and motion) recording. You can immediately start and stop recording through the instant recording feature. Each camera can be configured to record at a resolution, quality, and image rate specific to each recording mode. With the ability to trigger recording and in response to events (such as alarm inputs, motion detection, and video loss), the **DX4104** becomes an automated monitoring engine as well.

### EASY USER INTERFACE

Operation of the unit is made easy through the mouse, remote control, or front panel. For surveillance applications requiring pan/tilt/zoom (PTZ) capability, the **DX4104** addresses and controls



- PTZ Control from Remote Control, Front Panel, or GUI
- Normal, Alarm, Motion, Instant Recording, and Multi-Event Recording
- E-mail Notification on Alarm
- Export of Video to USB or CD/DVD Media

PTZ equipment such as Spectra® domes, mini domes, or third-party cameras. The unit operates Pelco and third-party PTZ cameras that support Pelco D, Pelco P, and supported third-party protocols.

The **DX4104** remote client is Vista-compliant and has the same look and feel as the DX8100 and DX4500/DX4600 remote clients. The remote client application includes a Web client and emergency agent application.

Video critical to investigation and archiving can be exported on the **DX4104** server to USB or CD/DVD±RW media. Use the exported video preview feature to verify the video content and quality. You can play back exported video at the remote client computer using the export viewer or a Microsoft® Windows®-based media player application. At the remote client, users can easily and quickly capture a video scene, save it in JPEG format, and then store it on the hard drive. Additionally, the remote client can be used to preview and search backed up video.

### NETWORK CONNECTIVITY

The **DX4104** remote client allows live viewing and video playback for a maximum of sixteen **DX4104** servers simultaneously. The remote client can connect to as many as 100 **DX4104** servers.

The **DX4104** provides a robust set of features for small- to multiple-site applications. From the incorporation of watermarking technology to prevent alterations to captured video, to the ability to capture log entries, to the inclusion of Pelco's world-renowned customer service promise, the unit embodies the ideal entry-level DVR to protect people and assets.



# TECHNICAL SPECIFICATIONS

## MODELS

Model Number	Description
DX4104-250	DVR with 250 GB Storage (1 HDD)
DX4104-500	DVR with 500 GB Storage (1 HDD)
DX4104-1000	DVR with 1000 GB Storage (1 HDD)
DX4104-2000	DVR with 2000 GB Storage (2 HDD)
DX4104DVD-250	DVR with DVD and 250 GB Storage (1 HDD)
DX4104DVD-500	DVR with DVD and 500 GB Storage (1 HDD)
DX4104DVD-1000	DVR with DVD and 1000 GB Storage (1 HDD)

## SUPPLIED ACCESSORIES

Power Cords	1 USA, 1 UK, and 1 European
PS/2 Mouse	1 for configuration and operation
Resource Disc	1, contains server and client software and documentation
Remote Control	1 for configuration and operation

## OPTIONAL ACCESSORIES

DX4104HDD-250	DX4104 SATA 250 GB upgrade
DX4104HDD-500	DX4104 SATA 500 GB upgrade
DX4104HDD-1000	DX4104 SATA 1000 GB upgrade
DX4104DVD-UPG	DX4104 DVD kit

## VIDEO

Signal System	NTSC/PAL, switchable	
Recording Resolutions	NTSC	PAL
	352 x 240	352 x 288
	704 x 240	704 x 288
	704 x 480	704 x 576
Compression	H.264 standard, on-board	
Video Inputs	4 (looping with automatic termination)	
PTZ Controls	Pelco P, Pelco D, other third-party protocols	
VGA Output	1 switch-selectable VGA (DB15) or analog (BNC)	
Spot Monitor Output	1 analog (BNC), single-channel view	

## MAXIMUM IPS RECORDING

Format	NTSC IPS		PAL IPS	
	Total	Per Camera	Total	Per Camera
CIF	120	30	100	25
2CIF	60	15	50	12.5
4CIF	30	7.5	25	6.25

## AUDIO

Audio Bit Rate	8 Kbps
Audio Levels	Line-level input and output

## ELECTRICAL

Input Voltage	12 VDC at 5 A (100 to 240 VAC 50/60 Hz adaptor)
Power Consumption	Maximum 40 W (1 HDD and 1 DVD drive)
Alarm Input Terminals	4 N.C. or N.O.
Relay Output Terminal	1 N.C. or N.O.; 30 VDC/1 A, 125 VAC/0.3 A
Remote Administration	Full remote control through TCP/IP network

## MECHANICAL

### Connectors

BNC	Video inputs and outputs
6-pin mini-DIN	PS/2 mouse
DB9	RS-232-C
DB15	VGA port
RJ-45	10/100 Megabit Ethernet
USB	3 high-speed USB 2.0 ports (1 front, 2 back); connects USB backup and export devices

### Audio Connectors

4 RCA jacks for line in and 1 for line out

## ENVIRONMENTAL

Operating Temperature	32° to 95°F (0° to 35°C)
Relative Humidity	Maximum 80%, noncondensing

## PHYSICAL

Dimensions	12.5" D x 16.9" W x 2.1" H (31.75 x 42.93 x 5.33 cm)	
Approximate Weight	Unit	Shipping
DX4104-250, DX4104-500, DX4104-1000	7.36 lb (3.3 kg)	14.0 lb (6.4 kg)
DX4104-2000	8.88 lb (4.0 kg)	15.0 lb (6.8 kg)
DX4104DVD-250, DX4104DVD-500, DX4104DVD-1000	8.78 lb (4.0 kg)	15.0 lb (6.8 kg)

## CLIENT APPLICATIONS

- Remote client
- Web client
- Export viewer
- Emergency agent (text-only notification)
- DS ControlPoint version 1.8 or later

## RECOMMENDED SYSTEM REQUIREMENTS

Processor	Intel® Pentium® 4 (or later), 2.4 GHz
Operating System	Windows XP (SP2) or Windows Vista®; DirectX® 8.1 or later, 500 MB free disk space
Memory	512 MB RAM, minimum
Video	VGA card with 128 MB video RAM

## CERTIFICATIONS

- CE, Class A
- FCC, Class A
- ETL/ETLc

**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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