DX4700/DX4800 Series H.264 Hybrid Video Recorders
10- AND 18-CHANNEL HVR WITH HD, REAL-TIME RECORDING

Product Features

- Supports 2 Megapixel (MPx) IP Channels
- 8 or 16 Looping Analog Channels Plus 2 IP Cameras, up to 3 Megapixels (MPx) Each
- Up to 30/25 Images Per Second (ips) Recording for IP Cameras up to 4 Mbps
- Up to 30/25 ips at 4CIF Resolution Analog Recording on DX4800
- Up to 4CIF Recording Resolution, 704 x 480 (NTSC), 704 x 576 (PAL)
- Up to 8 TB Internal Storage Capacity
- Up to 4 Audio Inputs and 2 Audio Outputs
- 1 Bidirectional Audio Output
- DX Series Client Simultaneous Connects to DX Series DVRs/HVRs
- Support for Coaxitron® and Pelco’s KBD300A Keyboard for Pan/Tilt/Zoom (PTZ) Control of Analog Cameras

The ability to support two Pelco megapixel IP cameras, or Axis® cameras, gives customers new power and flexibility in their IP migration path.

Customers who have continued requirements for 8 or 16 analog cameras and want to expand their systems with megapixel IP recording, have a cost-effective solution in the DX4700/DX4800 Series. The ability to support two Pelco megapixel IP cameras, or Axis® cameras, gives customers new power and flexibility in their IP migration path.

DX4700/DX4800 Series H.264 hybrid video recorders (HVRs) bring a new range of performance and capability to the Pelco DX Series product line, including support for 8 or 16 analog channels plus two IP cameras (up to 3 MPx each). Customers can now benefit from megapixel image detail where they need it most. For example, customers can monitor registers, cash counting operations, high-value merchandise areas, or lobbies and entrances while still receiving maximum value from existing analog cameras and cabling.

DX4700/DX4800 Series HVRs give customers the ability to record at the speed and resolution they need. Both models record up to 30 ips on all channels. In addition, the DX4800 adds the ability to record full frame rate video at 4CIF resolution for all cameras. With this kind of recording power, previous analog investments gain extended life.

With a wide new range of capabilities, DX4700/DX4800 Series H.264 HVRs well suit the needs of existing analog markets and become an integral part of an efficient megapixel IP migration strategy.

And, you can ease storage costs for backup video by using optional, external USB-attached HDD enclosures up to 1 TB (available from local electronics retailers).

DX4700/DX4800 Series HVRs provide the unique ability to leverage installed systems: the new DX Series remote client provides operational functionality for DX4000 and DX8000 Series DVRs/HVRs, and the optional DS ControlPoint software allows integration with DX Series products as well as Digital Sentry® systems.

DX4700/DX4800 Series is full-featured and meets the needs of a wide range of customers. Retail, branch office customers, and others will benefit from its robust capabilities including the ability to capture and overlay ATM/POS text with video recording, access instant playback for quick investigative work, and the use of bidirectional audio for enhanced security.

The DX4700/DX4800 Series reduces installation overhead with out of the box recording. An intuitive interface makes custom installation easy and reduces learning time for end customers.

With a wide new range of capabilities, DX4700/DX4800 Series H.264 HVRs well suit the needs of existing analog markets and become an integral part of an efficient megapixel IP migration strategy.
APPLICATIONS

The DX4700/DX4800 Series is perfect for customers who want higher resolution images than analog cameras can provide for specific critical areas of their business, including cash-counting, cashiers, entry/exit, or high-value merchandise areas.

Client-to-server connectivity allows operation from a remote location and can connect to as many as 100 DX Series systems simultaneously. Up to 100 systems can be added to the DX Series client site tree. Multiple DX Series clients, running on dispersed computers, can host a variety of servers in their respective site trees. The DX Series client can operate multiple DX Series systems including DX4700/DX4800, DX4100, DX4500/DX4600, DX8000, and DX8100 systems. Each server supports five simultaneous remote connections. The optional DS ControlPoint client can be used to simultaneously operate any of the current DX Series systems as well as any Integral or Digital Sentry DVR/HVR.

DX Series DVRs and HVRs offer the flexibility to meet the size and performance of industry video recording requirements. For example, small sites can use DX4100 to record and display video from 1 to 4 cameras; medium-sized sites can use DX4500/DX4600 to record and display video from 8 or 16 cameras. DX4700/DX4800 expands security by adding the value of two megapixel cameras to an analog environment of 8 or 16 cameras and the performance of 4CIF/30 ips for the DX4800 Series. Both the DX4700/DX4800 and DX8100 Series units support ATM/POS recording.

The DX4700/DX4800 Series provides valuable audio recording capabilities for those applications where policy and legislation allow. Bidirectional audio is an excellent tool for training or for an increased security presence. With up to four audio inputs and two audio outputs, full recording, search, export, and playback capabilities are available at the server. IP streams can be viewed in standard resolution at the server and in megapixel resolution at the client.

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

ELECTRICAL/VIDEO

- **Input Voltage**: 90 to 264 VAC, 50/60 Hz, autosensing
- **Power Consumption**: Maximum 250 W
- **Signal System**: NTSC/PAL, switchable
- **Operating System**: Embedded Linux
- **Video Compression**: H.264
- **Recording Resolutions**:
  - NTSC: 704 x 480, 704 x 576, 352 x 240, 352 x 288
  - PAL: 704 x 288
- **Video Outputs**: 1 main VGA or analog multiscreen for live viewing
- **Multiscreen**: 1 configurable, analog spot monitor
- **Display Resolution**:
  - Server: SVGA
  - Client: Up to 1920 x 1080
- **Remote Connection**: LAN/WAN, TCP/IP
- **Network Connection**: Gigabit Ethernet, RJ-45
- **Simultaneous Remote Connections**: 5
- **Bandwidth Throttle**: Server-based, 32 Kbps to 100 Mbps
- **Network Streaming**: Configurable per camera

SUPPORTED PTZ PROTOCOLS

- Pelco C, Pelco D, Pelco P
- Bosch_Autodome
- Ganz_DSIP, Ganz_P380V1
- Kalatel_Cyberdome
- LG_Multix, LG_SD168
- Panasonic_CS850
- Samsung_SCC

MAXIMUM IPS RECORDING

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<tr>
<th>Model</th>
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</table>

AUDIO

- **Line In**:
  - DX4708/DX4716: DX4808/DX4816: 2, mono, RCA line in
  - DX4708/DX4716: DX4808/DX4816: 4, mono, RCA line in
- **Output**: 2, Mono, 0 dB, RCA
- **Sampling Rate**: 128 Kbps (16 KHz)
- **Two-Way Audio**: Mic-in, line-out

MECHANICAL

- **Connectors**:
  - Video Inputs: 8 or 16, BNC
  - Video Outputs: 8 or 16, BNC, looping
  - Alarm Input: 1 per BNC input; Screw terminal; N.C. or N.O., supervised or nonsupervised
  - Relay Output: 2 for 8-channel; 4 for 16-channel (N.C. or N.O.)
  - Video Output: 1 SVGA or 1 analog
  - TCP/IP Port: RJ-45, 10/100/1000
  - Data Input: 2, RS-422/RS-485 terminals for connecting PTZ cameras
  - DB9: 1, RS-232C connector for interfacing an ATM/POS device
  - USB: 3 high-speed USB 2.0 ports (1 front, 2 back)

GENERAL

- **Operating Temperature**: 0° to 50°C (32° to 122°F)
- **Relative Humidity**: Maximum 80%, noncondensing
- **Mounting**: Standard 19-inch rack mount (2 unit)
- **Dimensions**: 49.78 x 48.26 x 8.89 cm (19.6" D x 19.0" W x 3.5" H)
- **Unit Weight**:
  - Without HDD: 6.0 kg (13.2 lb)
  - With HDD: 9.0 kg (19.8 lb)
- **Shipping Weight**: 18.2 kg (40.0 lb) maximum
- **Camera Views**:
  - Server: 1, 4, 6, 8, 9, 16
  - Client: 1 to 36

CERTIFICATIONS/PATENTS

- CE
- FCC, Class A
- UL/cUL
- C-Tick
- CCC
- KCC
- S Mark for Argentina

CLIENT MINIMUM PC REQUIREMENTS

- **Processor**: Intel® Pentium® 4 (or later), 1 GHz
- **Operating System**: Microsoft® Windows® 2000, Windows XP (SP3), Windows Vista®, or Windows 7 and DirectX® 9.1 (or later)
- **Memory**: 256 MB
- **Video**: 64 MB
- **Display Resolution**: 1024 x 768, 32-bit color
### Technical Specifications

#### Product Models and Features

<table>
<thead>
<tr>
<th>Feature</th>
<th>DX4708</th>
<th>DX4716</th>
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</table>

#### Supplied Accessories

- Power Cords: 1 USA and 1 European
- USB Mouse: 1 for configuration and operation
- Resource Disc: 1, contains server and client software and documentation
- Remote Control: 1 for configuration and operation
- Accessory Hardware: Alarm and relay terminal blocks, rack mount kit

#### Compatible Products

- Pelco Sarix™ IP Cameras (IM, IX, ID, and IE Series)
- Axis IP Cameras (must be compatible with VAPIX3)
- KBD300A Keyboard
- COTS HDD Enclosures
- DX Series Client
- DS ControlPoint API
- American Video Equipment Hydra™

#### Optional Accessories

- DX456HD250KIT*: DX4500/DX4600 SATA 250 GB upgrade
- DX456HD500KIT*: DX4500/DX4600 SATA 500 GB upgrade
- DX456HD750KIT*: DX4500/DX4600 SATA 750 GB upgrade
- DX456HD1000KIT*: DX4500/DX4600 SATA 1000 GB upgrade
- DX456-DVDKIT*: DVD drive upgrade for the DX4500/DX4600
- KBD300A: KBD300A desktop keyboard with full switching and configuration capabilities and joystick control of PTZ functions; requires a KBD300USBKIT or a KBD300USBKIT-X
- KBD300USBKIT: Remote keyboard wiring kit (120 VAC) for KBD300A
- KBD300USBKIT-X: Remote keyboard wiring kit (230 VAC) for KBD300A

*DX4500/DX4600 HDD parts can be used with the entire DX Series product line.

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