PRODUCT SPECIFICATION

# DX1000 Series Digital Video Recorder

## 4 CAMERA INPUTS, 30/60 GB HARD DRIVE

## Product Features

- Four Inputs for Fixed Cameras
- 30/60 GB Hard Drive for Video Storage
- Quad Camera Display for Live Viewing While Recording
- Continuous, Alarm, and Scheduled Recording Modes
- Easy Playback and Forward/Reverse Search
- Playback by Date, Time, and Camera
- On-Screen Menu Programming
- 4 Alarm Inputs, 1 Alarm Output

The **DX1000 Series Digital Video Recorder** (DVR) is a high-quality compact recorder that combines the functions of a recorder and multiplexer into one unit. Having no tapes to maintain, replace, or rewind means that this recorder can be set up once and virtually forgotten about until and unless a review of the video becomes necessary. It also dramatically reduces the down time for maintenance or repair that is generally associated with VCRs.

The **DX1000** can be placed on a shelf or desktop for easy access to the front panel controls for operation and programming.

A quad display of live video from all four cameras can be viewed while recording.

Recording can be done continuously, for a scheduled time in a 24-hour period, or on an alarm input basis. Each camera has its own alarm input for alarm-activated recording. Using a combination of these programmable features allows the user to extend the total recording time.

Two models, one with a 30 GB hard drive and the second with a 60 GB hard drive, generally allow continuous recording for up to two or four weeks respectively under the most common recording conditions. Recording time will vary depending on quality, number of cameras recorded, and record rate. When the available hard drive storage space is consumed, the **DX1000** automatically begins recording over the oldest video. This means that the user need not have to worry about rewinding or changing tapes, or replacing them as they wear out.

Recording can be stopped at any time to play back video. Entering the desired time, date, and camera number allows the user to instantly access any recorded video. Search functions during playback allow frame-by-frame viewing, fast playback, and playback of alarm events.

The DVR uses password protection to guard against unauthorized or unintentional recording or playback.

# TECHNICAL SPECIFICATIONS

## MODELS

| | |
|---|---|
| DX1004-030 | Four-channel digital video recorder, 30 GB hard drive, simplex operation (cannot record and play back video at the same time), 120 VAC, NTSC |
| DX1004-060 | Same as the DX1004-030, except has 60 GB hard drive |

## ELECTRICAL/VIDEO/AUDIO

| | |
|---|---|
| Input Voltage | 80-240 VAC, 50/60 Hz |
| Power Consumption | 20 watts |
| Video Standard | NTSC |
| Video Compression | MPEG |
| Resolution | 352 x 240 pixels, true color |
| Recording Speed | 1-30 fps, depending on system setup |
| Video Storage | |
| DX1004-030 | 30 GB hard drive |
| DX1004-060 | 60 GB hard drive |
| Video Inputs | 4 |
| Video Outputs | 2 (1 monitor, 1 video printer) |
| Alarm Inputs | 4, Normally open dry contact |
| Alarm Output | 1, Normally open latching Form A |

## MECHANICAL

| | |
|---|---|
| Connectors | |
| Alarm Inputs | 4 pairs, push-in |
| Alarm Output | 1 pair of relay contacts, push-in |
| Camera Inputs | 4, BNC |
| Monitor Output | 1, RCA phono (BNC adapter supplied) |
| Video Printer Output | 1, RCA phono (BNC adapter supplied) |

## GENERAL

| | |
|---|---|
| Operating Temperature | 41° to 104°F (5° to 40°C). |
| Relative Humidity | Maximum 80% non-condensing |
| Dimensions | 2.8" H x 9.1" W x 14.6" D (7 x 23 x 37 cm) |
| Unit Weight | 7 lb (3.18 kg) |
| Shipping Weight | 9 lb (4.08 kg) |

## CERTIFICATIONS/RATINGS

◆ FCC, Class B

## Storage Capacity Examples

The following charts show the typical storage time for the DX1004-030 and DX1004-060. Picture detail and motion content will cause individual results to vary. The times shown are for 4 camera systems where each camera is recording continuously at 1 frame per second per camera. These times can be extended significantly by using the scheduled and alarm recording features. For example, if the cameras are only recording for 8 hours per day, the total days of storage is tripled. Cameras may be individually programmed for resolution and thus potentially save additional time.

**DX1004-030**

| Resolution | Frames/sec/Cam | Cameras | Days* |
|---|---|---|---|
| Lowest | 1 | 4 | 21.7 |
| Low | 1 | 4 | 17.4 |
| Standard | 1 | 4 | 14.5 |
| High | 1 | 4 | 10.9 |
| Highest | 1 | 4 | 8.7 |

**DX1004-060**

| Resolution | Frames/sec/Cam | Cameras | Days* |
|---|---|---|---|
| Lowest | 1 | 4 | 43.4 |
| Low | 1 | 4 | 34.7 |
| Standard | 1 | 4 | 28.9 |
| High | 1 | 4 | 21.7 |
| Highest | 1 | 4 | 17.4 |

* Based on 24-hour recording.

**DX1000 Storage Calculation**

To select the right model of the DX1000, you need to know the storage requirements of the application. To calculate storage capacity, use the following formula:

| Image Size (kB) | X | Images Per Second | X | Number of Cameras | X | Record Hours Per Day | X | HDD Storage in Days | X | 0.0036 | = | Required Storage (GB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Example: | | | | | | | | | | | | |
| 6 | X | 1 | X | 4 | X | 24 | X | 14 | X | 0.0036 | = | 29.03 (DX1004-030) |

The equation is a generic overview of how Pelco calculates storage capacity.
The example is based on the average size of 6 kB, equivalent to VCR quality in some DVRs.
Contact factory for additional assistance in calculating storage capacity for your application.





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