

DigiSpider X2 Enhance Video Storage Server

Central Monitoring - *Smart Recording* - *Two-way Audio* - *Hot Swap Mass Storage*

X2-7000 A/B Series	120FPS Record Rate
X2-8000 A/B Series	240FPS Record Rate
X2-9000 A Series	480FPS Record Rate

Key Features:

- **Smart Recording Technology**
Automatically distribute frame rates to the camera that needed the most, base on alarm or motion detection. This allows a more efficient way to utilize system resources.
- **Remote Playback and Monitoring**
Built-in a wide range of solution for remote playback and monitoring. Captured images or videos can be easily distributed to any remote locations thru LAN/WAN environment or Internet connection.
- **Network Bandwidth Control for Remote Playback**
In a networked digital surveillance environment, live video streams, and large recorded files are continually being transmitted over the network. Therefore, it is important to control the network usage to ensure that each application maintains proper bandwidth. Adjust the network bandwidth for remote playback or WebCam applications. The next time, when a video file is being downloaded over the Internet or LAN, it will not hog the entire network bandwidth.
- **Easy Video Data Backup**
The DVR provides simple video backup software for easy backup video data to blank CD or DVD.
- **Multi Channel Audio Recording**
With the addition of audio recording, the surveillance can record and playback both audio and video at the same time.
- **Build-in Motion Detection**
Built-in motion detector can be configured individually for each camera. Sensitivity and masking area can be adjusted separately according to the environmental condition.
- **Embedded PTZ Palette**
PTZ-capable cameras can be controlled directly from surveillance system or any remote view enabled workstation. Intuitive control of movement is available via the embedded control panel on the video display window.
- **Central Monitoring**
All camera signals can be sent to the monitoring center.
- **Mass Storage, Hot-swap**
With our data protection technology, all the data stored in that hard drive can be automatically recovered. When one hard drive fails, simply put in a new one to replace it. With hot-swap, there is no need to shut down the DVR to replace the failed hard drive.
- **Two-way Audio over IP Network**
Two-way audio feature allow monitoring and communicating with local sites. All this can be done over the Internet by using IE browser without additional software.
- **Digital Watermark**
The Digital watermark will be able to check if the image is originally captured from the Surveillance system. If the captured image has been altered or modified, the software will indicate that the image has been damaged, and it will no longer be used as a legitimate evidence.
- **Camera Popup**
 - Automatically popup heaviest motion camera.
 - Dwelling time and interval adjustable.
- **Object Tracking**
Tracking moving object automatically.
- **System Log**
Set events you want to logged to system, and keeping days, etc.



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Product Specifications

Security Authentication

The DVR provides 3 users' level: Supervisor, Power User, and User. The supervisor has all privileges. Supervisor can assign some functions to Power User and User. For instance, what cameras they can view, whether they can start or stop recording etc.

Display

Screen layout: 1/4/6/8/9//10/13/16
Rotating display: 1 or 4 windows
Image resolution: selectable 320x240 / 640x480
Display: adjustable contrast / hue / brightness / saturation
Display resolution: 1024 x 768 pixels

Record

Motion / Non-stop / Schedule / Event trigger recording
Pre- and Post- event recording
Wavelet / MPEG4 selectable

Playback

Search by camera date and time
Toggle between 1-channel and 16-channel playback
Whole picture zoom-in and zoom-out
Maximum video clip is 5 minutes, but can be manually merge to larger video clip
Manually drag the slider to fast forward or rewind

Scheduling

The DVR can work with schedule, such as, what time record in motion, what time record in straight, and what time no record, etc.

SRT (Smart Record Technology)

Smart-Record-Technology means the DVR can automatically assign more frames to the heavy motion channel. It can setup the maximum limit up to 30fps if that channel is very important.

Software Motion Detection

Software built-in motion detection function.
Complicated geographic filter masking.

Hotline Notification

The DVR can dial 3 different phone numbers for event notification. Each event can detach different pre-recorded voice file

Email Notification

Email can be sent to specific recipient. An image of the event can be attached to the email

Digital Signature (Watermark Protection)

Watermark can be applied to all recording video to prevent unauthorized modification.

Alarm

The DVR has optional I/O unit to accept sensor input and output relay triggering signals. Each I/O unit has 8in/16out, and it is stackable to control more inputs and outputs.

PTZ Camera Support

Connection: RS485, RS422, RS232, depend on camera control interface. Supported models: Canon VCC4/VCC3, Pelco-P, Ademco, LiLin, Digi-Dome, Dynacolor, Sony, Panasonic, Mintron, Kalatel, SamSung, Sensormatic



Dual Intel Xeon Processor

Xeon processor is designed for server application. It is far superior than regular Pentium 4 processor. It is specifically useful when all the 3 tasks: local compression and record, live display, and MPEG4 video stream over network are working simultaneously. CPU usage in any regular P4 DVR in this situation is 100%. But with this Dual Xeon DVR, the CPU usage is only 60%.

High Performance Modem

The system built-in with high performance modem and modem server. Even with only telephone line connection, it can still provide up to 16 channel remote access.

High Performance Video Capture Device

Video data can be directly put into host memory for compression / record and display buffer for live display at monitor simultaneously, the built-in PCI bus master and pixel data FIFO can fully use PCI33/133M to transmit continuous video data stream, under 320 by 240 resolution and 16 bit color depth, the video data bit rate inside is $133 \times 1024 \times 1024 / 320 \times 240 \times 16 = 113.5$ frames per second.

Intelligent Thermal Sensor, Powerful Ventilation System

There is a fan-panel behind the hard drive array which provide excellent ventilation with 5 ball-bearing cooling fans. And the thermal sensor prevents the system from over-heat.

Anti-Virus System

The DVR comes with anti-virus system. If it is being use in a high risk, virus-infection environment, it can be installed to prevent the system from crashing.

Built-in Remote Trouble-shooting System

The DVR unit has the built-in mechanism that allows qualified technician troubleshooting remotely in case of necessary.

TECHNICAL SPECIFICATIONS

Electronic / Video

Input Voltage	100~240 VAC
Power Supply	550W standard 650W redundant (Optional)
Signal System	NTSC/PAL selectable
Operating System	Windows 2000 Professional
Recording Resolution	NTSC: 640×480 / 320×240 PAL: 720×588 / 360×288
Compression	Wavelet / Mpeg4
Compressed Image Size	320×240, 3kb 640×480, 9kb
Video Input	16 channels
Audio Input	4 or 16 channels
Video Output	SVGA×1, Video×1

Mechanical

Connectors	Video input: BNC Audio input: RCA
PS/2 Mouse and Keyboard	6-pin miniDin
COM1	DB9
Monitor	DB15, SVGA
TV	RCA
Ethernet Port 1&2 (1000base)	RJ45

General

Operating Temperature	5~40C (41~104F)
Relative Humidity	Maximum 85%
Desktop Dimension	26"×17"×7"
Rack-mount Dimension	26"×19"×7"
Unit Weight	78lbs
Shipping Weight	82lbs

Video Capture

Total Display	120/240/480 fps
Total Record	120/240/480 fps
Video Channel	16
Audio Channel	4 or 16
Compression	Wavelet or MPEG4
Compression Rate	300:1
Hard Drive Capacity	Maximum 3500GB
Remote Live Video Access	178 users maximum
Remote Playback	178 users maximum
Remote Setup	1 user maximum

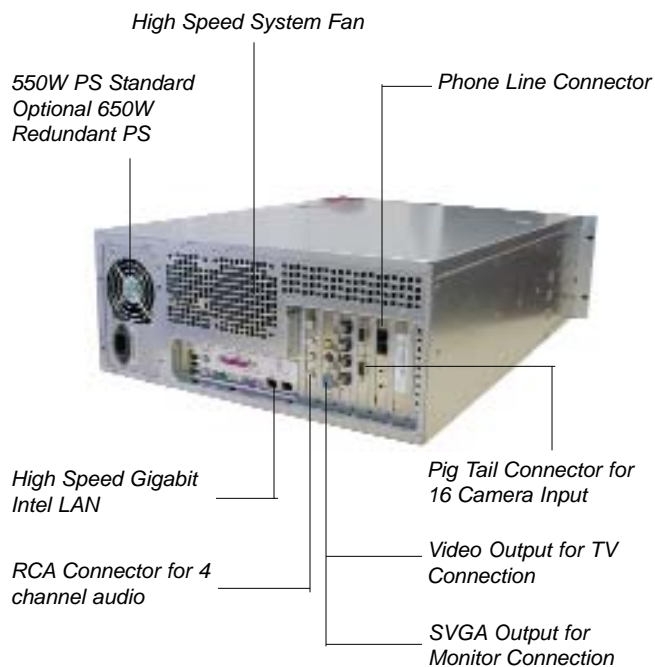
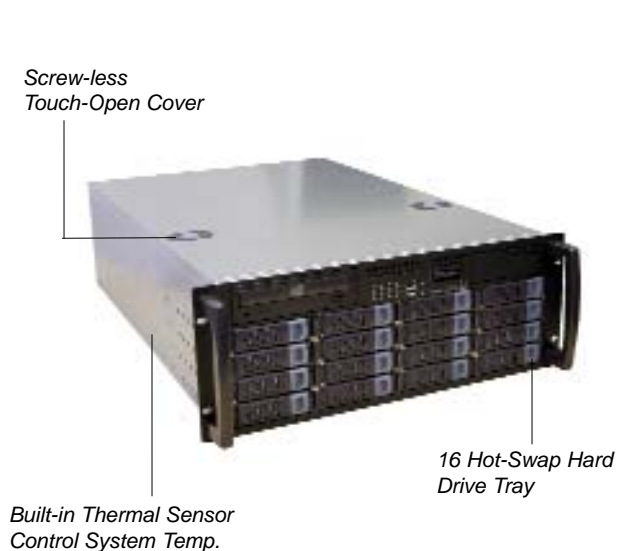
Average Video Data Size

320×240 3kb/frame
640×480 9kb/frame

Record Duration

See reverse page for detail.

Product Image



TECHNICAL SPECIFICATIONS

Models

Model	Camera Input	Audio Input	Display Rate (FPS)	Record Rate (FPS)	Storage Size (GB)	Record Duration (Day)
X2-7000A-1400	16	4	480	120	1400	40 - 200
X2-7000A-2800	16	4	480	120	2800	80 - 400
X2-7000A-3500	16	4	480	120	3500	100 - 500
X2-7000B-1400	16	4	120	120	1400	40 - 200
X2-7000B-2800	16	4	120	120	2800	80 - 400
X2-7000B-3500	16	4	120	120	3500	100 - 500
X2-8000A-1400	16	4	480	240	1400	20 - 100
X2-8000A-2800	16	4	480	240	2800	40 - 200
X2-8000A-3500	16	4	480	240	3500	50 - 250
X2-8000B-1400	16	4	240	240	1400	20 - 100
X2-8000B-2800	16	4	240	240	2800	40 - 200
X2-8000B-3500	16	4	240	240	3500	50 - 250
X2-9000A-1400	16	16	480	480	1400	10 - 50
X2-9000A-2800	16	16	480	480	2800	20 - 100
X2-9000A-3500	16	16	480	480	3500	25 - 125

Note:

- X2-7000 and X2-8000 series come with standard 16 camera input, but can have an option of 8 camera input as well.
- Storage calculation is base on average file size; actual file size and recording duration may vary.
- Average file size is base on 320x240 resolution.
- The small number of record duration is base on non-stop, and the large one is base on motion detect.
- Above data provide best quality at level 5, other choices from level 1 to level 4, might get longer record duration.
- For both storage and internet/intranet streaming, best video quality might be reduced if we select lower video quality.
- Contact our sales representative for additional assistance in calculating storage capacity for your application.

Supplied Accessories

Keyboard, PS/2 Mouse, Windows 2000 Professional and DVR software. (Monitor **not** supplied with X2 series DVR)

Optional Accessories

WA-FBR1000 Intel PRO/1000 XF Fiber Sever Adapter provides longer cable length, noise resistance for signal integrity at 1000Mbps fiber optic connection; high performance, reliability; advanced offloading.
WA-X2RAIL Rail for server rack mounting.
WA-LCD17 17" LCD monitor

Note: We recommend the use of uninterruptible power supplies (UPS) for all DVR units.

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Specification subject to change without notice.