



PX-2008x2 Series DVR

The PX-2008x2 brings you the utmost in digital video quality and performance by offering an exceptional frame rate (480 fps in NTSC, 400 fps PAL). The PX-2008x2 provides 16 channels of audio recording.

The PX-2008x2 represents state-of-the-art digital video technology.



Proximal\Prox[™]imal\, adj: The point of origin.

MAJOR NEW FEATURES

- Digital Matrix, support maximum 8 monitors display
- Automatic adjustment for DST
- Face Detection for Object Index
- Visual Automation
- POS Live View on Webcam
- Touch Screen Support
- POS Live Viewer
- Spot Monitor Controller
- H264 Codec
- Noise Tolerance
- Noise Detection

SMART SEARCH + EASY PLAYBACK

- Timeline Search
- Face Detection for Object Index
- Object search
- Index search
- Object Index

NOTIFICATION

- E-mail notification
- SMS notification
- Directs PTZ to a preset location

WEBCAM REMOTE SURVEILLANCE

- Blackberry Phone Support
- POS Live View via IE Browser
- SSL Encrypt Connection Support
- Control Panel to Provide Instant Information and Operation
- Event List Query
- Download Center

VIDEO ANALYTICS

- Advanced Motion Detection
- Face Detection
- Scene Change Detection
- Unattended Object Detection
- Missing Object Detection
- Privacy Mask
- Enhanced Object Counting
- Intrusion Alarm
- People Counting
- Video Stabilization
- Crowd Detection

REMOTE PLAYBACK AND MONITORING

Proximal's PX-Series is a true network surveillance system. We offer a wide range of solutions for remote playback and monitoring. Captured images or videos can be easily distributed to any remote locations thru LAN/WAN environments or internet connections.

SMART RECORDING TECHNOLOGY

Proximal's smart recording technology automatically distributes frame rates to the camera that need the most based on alarms or motion detection that allows more efficient ways to utilize your DVR resources.

BUILT-IN MOTION DETECTION

PX-Series' motion detector can be configured individually for each camera. Sensitivity and masking area can be adjusted separately according to the environmental condition. Thus providing a reliable and accurate detection.

DIGITAL WATERMARK

The digital watermark will check whether the image is originally captured from the PX system or not. If the captured image has been altered or modified in any way, then the software will indicate that the image has been damaged and it will no longer be used as legitimate evidence.

AUDIO RECORDING

With the addition of audio recording, you are now able to record and playback both audio and video at the same time, which gives you a more precise picture of the captured event.

RECORDING MODE

- Motion detection recording
- Around the clock recording
- Pre-schedule recording
- Post alarm recording

CAMERA CONFIGURATION

- Independent video brightness and contrast control
- Selectable motion detection sensitivity and masking area for each camera
- Independent recording quality and frame rate adjustment

REMOTE MONITORING SOFTWARE

- Remote View
- IP Multicast
- Web Cam
- Remote Playback system

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Major Features

- 720 X 512 recording and display resolution
- H.264, Mpeg 4 / Wavelet compression technology
- Motion detection, around the clock, and pre-schedule recording mode
- Alarm to E-mail (Jpeg or text message)
- Embedded I/O devices control
- Embedded PTZ control panel
- Build-in web server
- Digital watermark authentication
- Hardware watchdog features
- Video lost detection
- On screen video loss message
- Supports dual screen display
- Full screen view
- Dual display for live monitoring and playback on two monitors
- Screen pop-ups on motion or alarm activation
- Object counting
- Object tracking and zooming by PTZ domes
- Unattended and missing object detection
- Alarm on objects passing between predefined regions
- Video de-interlace filter
- Higher screen resolution support of 1920x1080
- PX-Map
- Lockout Windows
- Image size indicator
- Synchronized video and audio
- Backlight compensation
- Video auto gain controller
- Video scaling filter
- AVI repair utility
- System log
- Support 1,000 accounts for logins and passwords
- Multi level password protection
- Twin DVR
- Embedded I/O devices control
- Embedded PTZ control panel
- Support dynamic IP address
- Intelligent Recording & Playback
- Privacy Mask Protection
- Advanced Motion Detection
- Scene Change Detection
- Pre-Recording Using HDD
- Advanced Round-The-Clock recording
- Instant Playback
- Time Merge From Different Clips

Notification

- E-mail notification with attached video images on motion and alarm activation
- E-mail or telephone notification on video lost or I/O error
- Directs PTZ dome to a preset location on motion and alarm activation
- SMS alerts available in Main System, Center V2 and VSM
- Alarms on objects that pass between predefined regions

Remote Monitoring Software

- Remote Viewing
- IP Multicast
- Webcam
- Remote Playback System
- WinCE PDA
- I-Mode

IT Technology

- PSA Network Security
- Authentication Server: central control of password settings

Recording

- Choice of recording at 15, 30, 60, 120, 240, 480 fps
- Recording trigger by round-the-clock, motion detection, alarm and schedule
- Adjustable recording quality and frame rate for each camera
- Pre-motion and post-motion recording
- Supports Windows XP / Server 2003 burning software

Audio

- 16 channels of live audio streaming and recording

Smart Search & Ease Playback

- Object search
- Index search
- Object Index
- Thumbnail browse for ease of search for specific frames
- Export a video footage within a specified time range
- Synchronized audio and video for both live and playback
- Continues playback of set frames A to B
- EXE format export, playable with any third-party players
- AVI format export in multiple screens mode
- DVD format export for Hybrid Card format files
- Option for recycling the input-triggered events (Never recycle)
- Backup, save AVI and BMP functions accessible in LAN ViewLog
- Automatic refresh of the video event list in LAN ViewLog

PTZ Control Protocol Support

- Ademco Jupiter
- BOSCH TC700 & TC8560
- Canon VC-C3 / VC-C4
- CBC GANZ ZC-S120 Series
- Chiper CPT-V9KRP
- COP 15-CD53W (Pelco D)
- Directed Perception PTU Series
- D-Max Dome
- Dong Vang DOH-240
- DynaColor D-7720 / 7722
- Elbex Matrix / 1000
- GKB SPD-221
- Elmo PTC-200C / 400C / 1000
- Eyeview T-Power (T2-SA27)
- JEC Dome
- JVC (TK-S576B/TK-S655/TK-C686E)
- Kalatel Cyber Dome KTD-312
- Kampro Technology K-ZC23
- Kenko DMP23-H1
- Lilin PIH-7000/7600/7625/820
- MESSOA SDS600 Series
- Minttron 54G2AHN/P
- Minking Dome
- Nang Wang WVD 2300PNT (firmware version 41)
- Panasonic WV-CS850 / 854
- Pelco Dome
- Pelco Spectra 3
- PTZ in I/O
- SAE DR-E 588
- Samsung SCC-641 / 643
- Samsung SPD-1600
- Sensormatic Ultra IV
- Sony EVI-D100 / D100T
- VAAN Dome
- 360 Vision Vid-18COP04 (Pelco P)

Main System

- New H264 V2 Codec
- Video Analytics (optional)
- New Resolutions: 1920x1080 (HD) & 1280x800 (NB)
- Support for third party IP cameras: Sony, Panasonic, ASIX, Mobotix, IQinvision, and JVC
- Support for PX-NVR
- Support for PX-Joystick

Authentication Server

- Support for Webcam, Multiview, and ST-Map

Webcam

- Single sign-on for Multiview and PX-Map
- Video and Audio codec options for single view
- Audio wave display for microphone and speaker functions
- User-Level countdown
- Video Analytics (optional)
- Support IP Multicast transmission
- Support for up to 64 PTZ presets
- New webcam interface
- Bandwidth control function
- Live image display of triggered I/O in PX-Map
- Visual/Audio Adjustment option for 3G mobile phones

SPECIFICATIONS

VIDEO

Video standard:
PAL/NTSC auto-detect

Resolution:
720 x 576 PAL - 720 x 484 NTSC

Digital Zoom:
2, 4, 6, 8, or 10 times

Compression:
WAVELET, MPEG, MOTION JPEG, H264

Inputs:
16 Composite video I/V-p 75ohm, auto-terminating

Outputs:
I/V-p, 75 ohm

Display Rate (FPS):
NTSC: 480 total, configurable per camera
PAL: 400 total, configurable per camera

Video Formats:
AVI

Image Formats:
bmp, jpg, tif

RECORDING MODES

Round the clock - Motion Detect
Alarm triggered - Scheduled

Record Rate (FPS):
NTSC: 480 total, configurable per camera
PAL: 400 total, configurable per camera

Recording Resolution:
720x512 - high resolution
640x480 - medium resolution
320x240 - standard resolution

RATED VOLTAGE AND POWER

Maximum Power:
650W

Transient Response:
+5V, +12V outputs return to within 5% in less than 1ms for 20% load change

P-G Signal:
100-500ms

Over Voltage Protection: recycle AC to reset:
+5V trip point < +6.5V/+3.3V trip point
+41V/+12V trip point < +15.6

Overload Protection:
Latching Protection:
+5V @ < 53A
+3.3V @ < 48A
+12V @ < 23A

Leakage Current:
< 3.5mA @ 240VAC

OUTPUT: +5V
Max Load 38A*
Min Load 15A
Load Reg + 5%
Ripple V(p-p) 50mV

OUTPUT: -5V
Max Load 0.5A
Min Load 0A
Load Reg + 10%
Ripple V(p-p) 100mV

OUTPUT: +12V
Max Load 18A
Min Load 0.8A
Load Reg + 5%
Ripple V(p-p) 120mV

OUTPUT: -12V
Max Load 0.8A
Min Load 0A
Load Reg + 10%
Ripple V(p-p) 120mV

OUTPUT: +3.3V
Max Load 28A*
Min Load 0.5A
Load Reg + 5%
Ripple V(p-p) 50mV

OUTPUT: +5V/3.3V
Max Load 20A
Min Load 0A
Load Reg + 5%
Ripple V(p-p) 50mV

+5V and +3.3V combined output:
240 Watts max
+5V, +3.3V and +12V combined output:
380 Watts max

INPUT

Input Voltage:
115VAC/230VAC

Input Frequency Range:
47Hz to 63Hz

Input Surge Current (p-p):
< 50A @115VAC < 80A @230VAC

Input Current:
10.0A for 115VAC 5.0A for 230VAC

Hold-up Time:
< 17ms at Full Load

Efficiency:
> 68%

EMI/RFI:
FCC Class B

CONNECTORS

Video inputs:
16 BNC male, auto-terminating

Video Output:
15 pin VGA connector (CRT/TFT Monitor),
RCA (TV, CCTV monitor)

Keyboard:
PS/2

Mouse:
PS/2

USB (four ports):
USB 2.0, 11

Parallel Port:
DB25 female

Serial Port A:
RS232
DB9 male

LAN:
Ethernet - RJ45S modular jack 8 pins shielded
(1), 10/100 Base-T according IEEE802.3
LAN, TCP/IP, ISDN, PSTN, ADSL

Audio:
16 channels
Line out
Line in
Mono/stereo mic in

STORAGE

Internal:
250 GB - 8 TB (RAID systems available)

External:
Mapped network storage devices

BACKUP FUNCTIONS

RDD, DVD / CD+RW, DVD, MO, ZIP

CONTROL

RS232:
Output signals according EIA/TIA-232-F,
max. input voltage +25V

Keyboard Input:
Conform PS485, max. signal voltage +12V,
power supply to keyboard 11V-12.6V at max
400mA

Keyboard Output:
Conform PS485, max. signal voltage +12V

MECHANICAL

Pack Mount:
Dimensions: 19 (w) x 7 (h) x 20.5 (d) inch
Weight: approx 45.2 lbs

Tower:
Dimensions: 8.5 (w) x 21.5 (h) x 20 (d) inch
Weight: approx 42.8 lbs

ENVIRONMENTAL - DVR

Temperature:
Non-Operating -40°C to +70°C
Operating 0°C to +55°C

Shock:
Unpackaged:
50 g trapezoidal waveform
Velocity change of 170 inches/second

Packaged: Half sine 2 millisecond
Product Weight (pounds) <20
Free Fall (inches) 36
Velocity Change (inches/sec) 167

Product Weight (pounds) 21-40
Free Fall (inches) 30
Velocity Change (inches/sec) 152

Product Weight (pounds) 41-80
Free Fall (inches) 24
Velocity Change (inches/sec) 136

Product Weight (pounds) 81-100
Free Fall (inches) 18
Velocity Change (inches/sec) 118

Vibration:
Unpackaged:
5 Hz to 20 Hz: 0.01 g²/Hz sloping up to 0.02 g²/Hz
20 Hz to 500 Hz: 0.02 g²/Hz (flat)

Packaged:
10 Hz to 40 Hz: 0.015 g²/Hz (flat)
40 Hz to 500 Hz: 0.015 g²/Hz sloping down
to 0.00015 g²/Hz

ENVIRONMENTAL - Power Supply

Operating Temp:
10°C to 50°C

Operating Alt:
Sea Level-10,000 ft

Non-Operating Vibration:
Operating: 10-300 Hz, 0.5G, 3 axes, 1hr ea axis
Non-operating: 10-300 Hz, 2.0G, 3 axes,
1hr ea axis

MTBF:
50,000 hrs @ 25°C

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ELECTROMAGNETIC COMPATIBILITY

EMC REQUIREMENTS:

- FCC (Class B)
Title 47 of the Code of Federal Regulations, Parts 2 and 15, Subpart B, Radio Frequency devices (USA)
- ICES-003 (Class B)
Interference-Causing Equipment Standard, Digital Apparatus (Canada)
- EN55022: 1998 (Class B)
Limits and methods of measurement of Radio Interference Characteristics of Information Technology Equipment (European Union)
- EN55024: 1998
Information Technology Equipment - Immunity Characteristics - Limits and methods of measurement (European Union)
- AS/NZS 3548 (Class B)
Australian Communications Authority, Standard for Electromagnetic Compatibility (Australia and New Zealand)
- CISPR 22, 3rd Edition (Class B)
Limits and methods of measurement of Radio Disturbance Characteristics of Information Technology Equipment (International)
- CISPR 24: 1997
Information Technology Equipment - Immunity Characteristics - Limits and Methods of Measurement (International)

SAFETY:

- CSA C22.2 No. 60950/UL 60950, 3rd Edition, 2000
Bi-National Standard for Safety of Information Technology Equipment including Electrical Business Equipment (USA and Canada)
- EN 60950, 2nd Edition, 1992 (with Amendments 1, 2, 3, and 4)
The Standard for Safety of Information Technology Equipment including Electrical Business Equipment (European Union)
- IEC 60950, 2nd Edition, 1991 (with Amendments 1, 2, 3, and 4)
The Standard for Safety of Information Technology Equipment including Electrical Business Equipment (International)
- EMKO-TSE (74-SEC) 207/94
Summary of Nordic deviations to EN 60950 (Norway, Sweden, Denmark, and Finland)

SUPPORTED PTZ CAMERAS

Ademco Jupiter, BOSCH TC700 & TC8560, Canon VC-C3 / VC-C4, CBC GANZ ZC-S120 Series, Chipen OPT-V9KRP, COP 15-CD53W (Pelco D), Directed Perception PTU Series, D-Max Dome, Dong Yang DOH-240, DynaColor D-7720 / 7722, Eltex Matrix / 1000, GKB SPD-221, Elmo PTC-2000, Elmo PTC-4000, Elmo PTC-1000, Eyeview T-Power (T2-SA27), JEC Dome, JVC (TK-S576B / TK-S855 / TK-C686E), Kalatel Cyber Dome KTD-312, Kampro Technology K-ZC23, Kenko DMP23-HI, Lilit PIH-7000 / 7600 / 7600PL / 7625 / 820, MESSOA SDS600 Series, Mintron 54G2AHN/P, Minking Dome, Nang Wang WVD 2300PNT (firmware version 4.1), Panasonic WV-CS850 / 854, Pelco Dome, Pelco Spectra 3, PTZ in I/O, SAE DR-E 588, Samsung SCC-641 / 643, Samsung SPD-1600, Sensurmatic Ultra IV, Sony EVI-D100 / D100T, TOA CC551, StarVision, VIDO Dome, VAAN Dome, 360 Vision Vid-18COPO4 (Pelco P)

MINIMUM PC SYSTEM REQUIREMENTS

for Monitoring Center (MC) and Remote Software (RS)

Operating System: Windows 98 SE, 2000 or XP
Processor: 800 MHz Pentium III (MC) / 600 MHz Pentium III (RS)
RAM Memory: 512 MB
Free Disk Space: 300 MB
Video System: 8 MB video memory, 800 x 600 with 16-bit color
Connection: 10/100-BaseT network interface, 56k modem

ACCESSORIES (OPTIONAL)

PX-Net - PTZ Control • PX-IO - Alarm Handling • PX-Relay • POS overlay



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