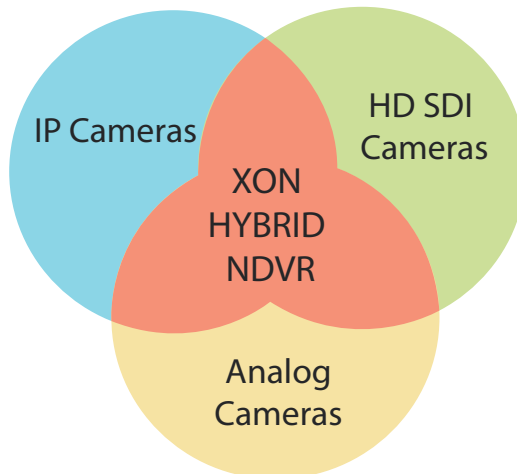


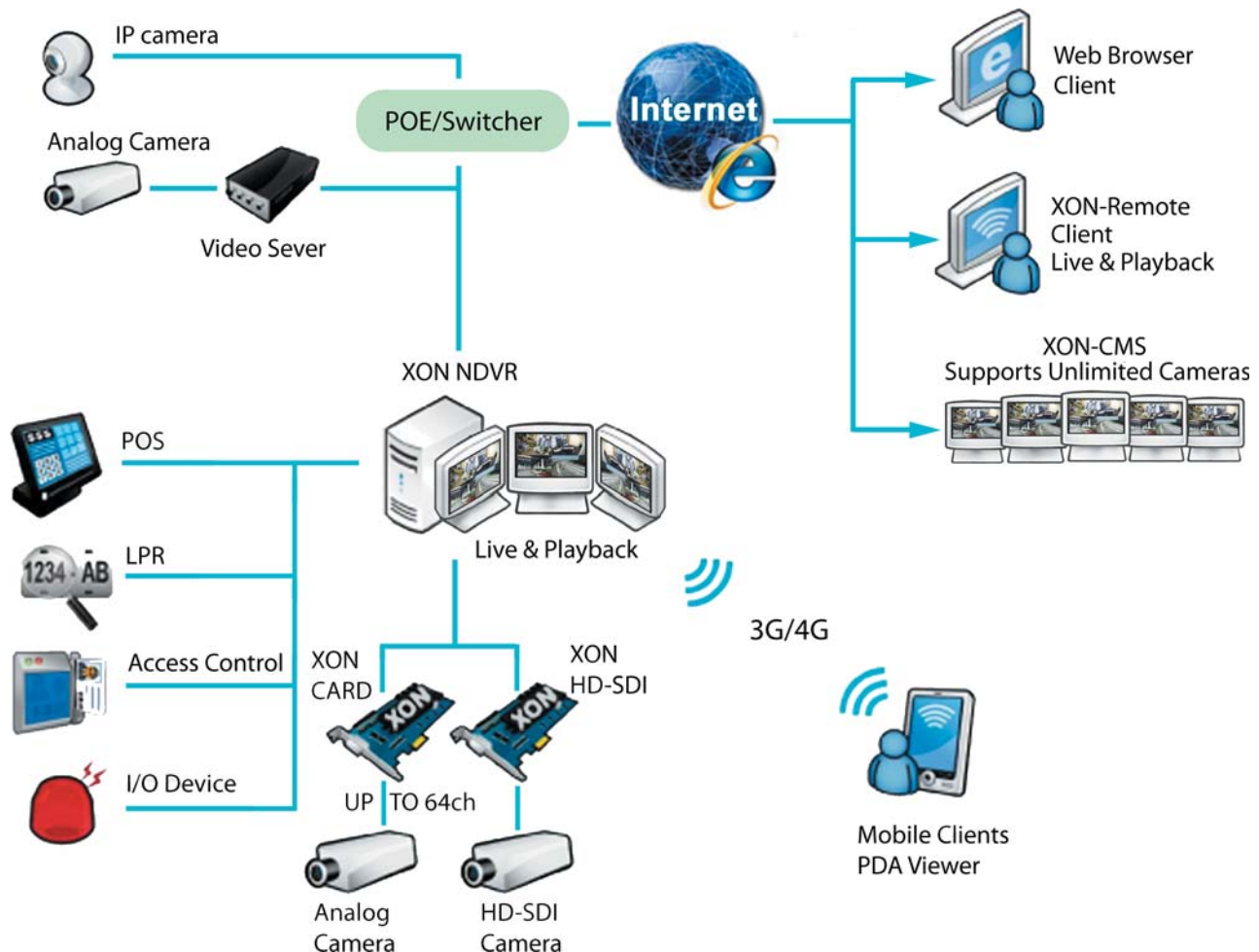
X-ON NDVR Concept

The X-ON line up of Recording Server from Versiton is analytic powerhouse, highly-scalable, and IT friendly. The X-ON is designed to meet the complex application and integration requirements of large deployments with options such as external storage and Server Operating System, while providing all of the Intelligent Surveillance and Search capabilities that you would expect only from Versiton Technology.

Tri-brid



IP Cameras
+
HD SDI Cameras
+
Analog Cameras
= **XON Tri-brid NDVR**



X-ON NDVR System

The X-ON line up of Recording Server from Versiton is analytic powerhouse, highly-scalable, and IT friendly. The X-ON is designed to meet the complex application and integration requirements of large deployments with options such as external storage and Server Operating System, while providing all of the Intelligent Surveillance and Search capabilities that you would expect only from Versiton.



System Configuration





- Supports Unlimited IP Cameras*
- Highly flexible storage configuration
- Top of the line Solid State HDD for main operations drive
- Enterprise level RAID storage configurable to RAID5 for Video DATA. Maximum 24TB.
- Hot swappable storage drives
- Redundant power supply for highest stability
- Latest server class components with up-to-date hardware
- Ability to store many weeks of video data
- Up to 32 Channel Analog**

Software

- Support up to 64 channels
- Support H.264 compression format
- Triple monitor display
- Support for standard (4:3) and wide screen display (16:9, 16:10)
- Instant Playback
- Digital PTZ and multi-view
- Smart detection of 6 events with 10 instant responses
- Intelligent playback system with 5 video analytics searches
- Up to 128 CH remote live view
- Support transcode and multiple stream profile
- Support digital watermark
- Remote playback, remote backup, remote I/O control and remote desktop configuration
- Supported by Versiton Central Management System
- Supports 52 brands of IP cameras and more than 1090 models
- Supports 30 languages

*IP Camera count limitation based on the Frame/Quality/Bitrate/Resolution. Live video maybe disabled on the server to allow more IP cameras to be installed into system.

**6 Types of analog camera capture device can be installed at maximum of 32 Channels (2 x 16CH)

Model	SV-200	SV-300	SV-400	SV-500
XON NDVR Series				
Project Size	SMALL	MEDIUM	LARGE	X-LARGE
[L+R]* Max. Mega Pixel Size	10.4MP (8@1.3MP)	20.8MP (16@1.3MP)	32.5MP (25@1.3MP)	41.6MP (32@1.3MP)
[R]** Max. Mega Pixel Size	10.4MP (8@1.3MP)	41.6MP (32@1.3MP)	65MP (50@1.3MP)	83.2 MP (64@1.3MP)
Max.CH of Only Analog w/D1	-	64 CH	64 CH	64 CH
IP License	Not Included	Not Included	Not Included	Not Included
Case Type	MINI	Mid Tower	4U Rack	4U Rack mount / Tower Convertible
Power Supply	Reliable Standard	Reliable Standard	Reliable Hi Output	Redundant Hi Output
SSD HDD for OS Drive	Optional	SSD Built-in	SSD Built-in	SSD Built-in
Max. Internal Data Capac	6TB	8TB	14TB	24TB
Expandable Data Storage	USB / NAS	USB / NAS	USB / NAS / ESATA	
Optical Drive	Optional	Included DVD RW		
Add-in SATA Expansion	-			Built-in
E-SATA Connection	-		Built-in	
RAID (0, 1, 5)	-	Optional		
Available USB Ports	4 x Rear ; 2 x Front	6 x Rear ; 2 x Front		
Network Speed	10/100/1000			
Dimensions (WxDxH) / inch	10.4 x 12.2 x 3.9	8.2 x 18.4 x 17.15	18.8 x 20.2 x 7.0	17.2 x 22.5 x 7.0

* L+R: Live & Recording mode

** R: Recording Only mode, IP Only Qty can be increased up to 2x on Server Only Mode, with no "at server" Live & Search capability. All Live and Search must be done at client.

*** IP and Analog combination is at D1 or VGA is equivalent to 1.3 megapixel IP.

X-ON NDVR Software



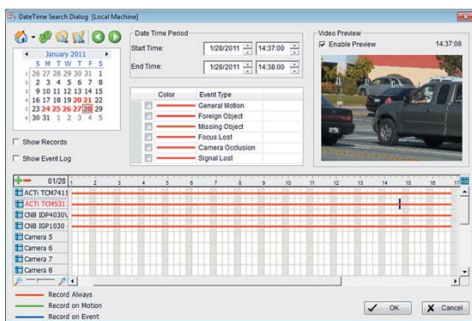
Live Screen



Search Screen



Remote Software



Calendar Search



Smart Search

•**Multi-site/Multi-server:** Each X-ON server supports up to 64* channels, from IP cameras and video encoders with analog cameras, and can be managed by Versiton CMS or remote live view client for centralized management in multi-site projects.

•**Multiple Video Clients:** X-ON NDVR server can stream video to multiple Remote Live Viewers, web clients and mobile clients simultaneously.

•**Intelligent Video Analytics:** X-ON IVS supports 6 types of video analytics including general motion, missing object, camera occlusion, foreign object, lose focus and signal lost. Each IVS alarm can trigger up to 10 unique instant notifications.

•**Intelligent PTZ:** Joystick support on PTZ cameras and software enabled digital PTZ function are both available in X-ON NDVR. Preset points and patrol functions are also available on many camera models.

•**GUI Recording Schedule:** Intuitive GUI recording schedule featuring continuous recording, motion recording and the 6 unique event recording modes. User can define the recording schedule for each camera on a day by day basis.

•**Triple Monitor:** Up to 64* channels of live view video can be displayed per monitor. Monitor 1 and monitor 2 can both display live view video or act as alarm monitor while the 3rd monitor can be used for playback

•**Transcoding:** Record and live display at different frame rate and resolution.

•**Advance E-Map:** Freedom to import custom image file, place the cameras and I/O on the map to indicate where events are getting triggered with a convenient video preview window.

•**User-Friendly Interface:** GUI recording schedule, camera drag and drop, I/O control menu and PTZ control menu. automatic Camera Model Detection: automatically search for all of the IP cameras in the network(camera must support UPnP protocol). For cameras that don't support UPnP, user can manually insert the IP camera. The auto detection function will help the user to find the brand and model of the camera after specifying its IP address.

•**Counting Application:** intelligent 2-way (in and out) counting of object, people and traffic.

•**User Authority Management:** Support unlimited number of users with detailed and fully customizable user privilege on each user.

•**Network Flow Monitor:** The data streaming bandwidth of each remote client connection to the NVR server can be monitored and blocked if flow rate is too high.

Smart Guard

•Smart detection of 6 camera events, 14 different user-defined POS events, digital input events and 4 system events. The combination of our smart guard events is a powerful tool to combat vandalism and provide a platform for operators to monitor and respond to live events immediately.

Camera Events

- General Motion
- Missing Object
- Foreign Object
- Focus Lost
- Camera Occlusion
- Signal Lost - Signal Digital Input Event

System Events

- System alarm on Disk Space Exhausted
- System alarm on System Health Unusual (CPU temperature)
- System alarm on Resource Depleted (CPU loading)
- System alarm on Network Congestion

• Instant alarm notification is the fastest and most cost efficient way to automatically respond to any smart detection event.

10 Automatic Instant Alarm Responses

- On Screen Display
- Play Sound
- Send E-mail
- Phone Call
- PTZ Preset Go
- Signal Digital Output
- Send a SMS message
- Send to Central Server
- Send Snapshot to FTP
- Popup E-Map on Event

X-ON NDVR Software

XON NDVR Software Specifications (V3.5)		
License Model	XON-IPP (Plus) Full Version	XON-IPL (Lite) Value Version
Support Hybrid Inputs	IP Cameras, Analog, HD-SDI	Only IP
Max. IP Camera Inputs	64 Ch	32 Ch
Playback Channels	Playback Maximum 16 channels under several modes & full screen	Playback Maximum 4 channels under several modes & full screen
Remote Clients	Multi location client	Single location client
Remote Live Viewer	128 Ch	16 Ch
Remote Playback	16 Ch	4 Ch
XON-CMS	Supported	-
POS	XON-CBXPOS RS232 to Ethernet Converter	-
Counting application	Included	-
Smart Guard	Full Feature	Motion, DI
Smart Search	Included	-
Stream Profiles	Customizable, Multiple Streams	Fixed
E-map Support	10 Layer	1 Layer
LPR (License Plate Recognition)	Available add-on License Plate Recognition	-
Access Control Integration	Available	-
Screen Resolution	1024x768, 1200x900, 1280x1024, 1440x900, 1600x1200, 1680x1050, 1920x1080, 1920x1200	
Auto Backup	Supported Auto Schedule Backup	
Remote Control	Remote Playback, Remote Backup, Remote I/O control and Remote desktop configuration	
Available I/O Function	Supporting I/O Box	
Multi View Digital PTZ	Supported in Live View and Playback , Multi View Digital PTZ	
Multiple Show	Supported in Live View	
Triple Monitor Display	Enable Maximum 64 Channels with two screens to show live video and viewer recording video on	
Audio & Video Recording	Synchronized audio & video recording	
Screen Division	1/4/6/9/10/13/16/25/36/49/64 divided screen	
Compression Format	H.264; MPEG-4; M-JPEG	
Recording Type	Continuous record, record by digital input, motion record, event recording, record by schedule,	
Playback Control	Playback, backward playback, fast forward/backward playback	
Auto Recycling Recording	Auto recycling when storage disk is full	
Hardware Watchdog	Only available on Hybrid Upgraded system	
Misc. Functions	Windows Active Directory	
	Privacy Mask, Boosting Recording	
	On the edge motion integration	
	Instant Playback	
	2 - Way Audio	
	Intelligent Playback System with 5 Video Analytics Searches	
	Supports Digital Watermark	
	Supports over 50 Brands and over 1100 models of IP Cameras	
	Supports Windows mobile, iPhone, iPad, Android and Blackberry clients	

Compatible IP Camera Partners



X-ON NDVR Upgrade Accessories

	HD-SDI 1080p Real time Recording					
Model	CBX-808HD			CBX-804HD		
Video Input	8			4		
Audio Input	0			0		
Qty of Cards	2 of CBX-804HD			Single		
Max. Display FPS	240			120		
Max. Recording FPS @	240 @ 720p			120 @ 720p		
Max. Recording FPS @	240 @ 1080p			120 @ 1080p		
Interface	PCI Express 1X					
Available I/O Card	3 I/O Cards			4 I/O Cards		
Video Resolution	1080p, 720p					
	D1 Real Time Recording					
Model	CBX-464	CBX-448	CBX-432	CBX-416	CBX-408	CBX-404
Video Input	64	48	32	16	8	4
Audio Input	64	48	32	16	8	4
Qty of Cards	4 of CBX-416	3 of CBX-416	2 of CBX-416	Single	Single	Single
Max. Display FPS	1920	1440	960	480	240	120
Max. Recording FPS @	1920	1440	960	480	240	120
Max. Recording FPS @	1920	1440	960	480	240	120
Interface	PCI Express 1X					
Available I/O Card	1 I/O Cards	2 I/O Cards	3 I/O Cards	4 I/O Cards	2 I/O Cards	1 I/O Card
Video Resolution	704x480; 352x240; 176x120					
	CIF Real Time Recording					
Model	CBX-264	CBX-248	CBX-232	CBX-216	CBX-208	CBX-204
Video Input	64	48	32	16	8	4
Audio Input	64	48	32	16	8	4
Qty of Cards	4 of CBX-216	3 of CBX-216	2 of CBX-216	Single	Single	Single
Max. Display FPS	1920	1440	960	480	240	120
Max. Recording FPS @	1920	1440	960	480	240	120
Max. Recording FPS @	480	360	240	120	60	30
Interface	PCI Express 1X					
Available I/O Card	1 I/O Cards	2 I/O Cards	3 I/O Cards	4 I/O Cards	2 I/O Cards	1 I/O Card
Video Resolution	704x480; 352x240; 176x120					
	Specification					
Compression Format	Hardware Compression H.264					
Screen Division	1 / 4 / 6 / 9 / 10 / 13 / 16 / 25 / 36 / 49 / 64 division screens.					
Recording Type	Continuous recording, record by digital input, motion recording, event recording, record by schedule,					
Playback Channels	Playback Maximum 16 Channels under several modes & full screen					
Playback Control	Forward/backwards, fast forward/backward, and frame by frame play					
Auto Recycled	Auto recycling when storage disk is full (Definable as free space %)					
Available I/O Function	Supported by I/O Box (CBXC08, CBXIO4, CBXI16, CBXO16)					
Available POS Device	Supported by POS Box (CBXPOS)					
Hardware Watchdog	Supported only on hybrid (analog capture board) upgraded system					
	System Minimum Requirements (Per Card)					
OS Supported	Windows XP (32bit) / Windows 7 (32 and 64 bit) / Windows 2008 (64 bit)					
CPU	Intel Core2 Duo E5300					
RAM	2GB / Card(16ch)					
Recording Type	Continuous recording, record by digital input, motion recording, event recording, record by schedule,					
HDD	Minimum 250GB					
Mother Board	Intel P55, H55, X58, P45, P43 chip, MB Vendor ASUS, Gigabyte or MSI with Intel chipset recommended					
Display	ATI Radeon 3850/4850, nVIDIA Geforce GF-9600 or above (ATI Driver V9-2 recommended, ATI Driver V10 not Support)					









*Versiton hybrid solution is a professional surveillance recording system that supports both IP and analog cameras. Versiton hybrid solution supports the widest array of IP camera models in the world and the most powerful analog capture cards (H.264 D1 Real-time) in the industry.

*Versiton Hybrid solution has 6 embedded video analytics functions that can trigger 10 instant responses. Counting application, POS application, mobile phone support and playback analytic search functions are just part of the Versiton hybrid solution. Versiton CMS supports Versiton hybrid servers to broaden its project scope to unlimited sites and cameras.

X-ON NDVR Upgrade Accessories

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Model	Photos	Description
XON-SV-DAS-1U		1U DAS (Direct Attached Storage) using ESATA / USB 3.0. **NO HDD INCLUDED** A 4-bay hardware RAID 5 rackmount storage unit that utilizes high performance USB 3.0 and eSATA interfaces to provide over 200MB/s in performance.
XON-SV-DAS-2U		2U DAS (Direct Attached Storage) using ESATA / USB 2.0. **NO HDD INCLUDED** A 2U 8-bay rackmount with USB 2.0 / eSATA interfaces (up to 200MB/s), and embedded hardware RAID 6 engine. The hardware RAID feature offloads complex RAID calculations from the client's operating system to the RAID engine, which increases the overall read/write performance and eliminates OS compatibility issues.
XON-CBXG3		Digital Input and Relay Output Card - 4 Digital Input, 4 Relay Output Provides with 4 optical isolated digital input channels and 4 power relays output. This IO card is designed to work with XON-CBX-100, XON-CBX-200, XON-CBX-400 series capture boards.
XON-CBXC08		USB-RS232 / RS485 Adapter Box An independent control device for managing signals from RS-232, RS-422 and RS-485. Devices such as I/O relay device or speed dome can be easily be controlled.
XON-CBXIO4		Digital Input and Relay Output Box - 4 Digital Input, 4 Relay Output Provides with 4 optical isolated digital input channels and 4 power relays output. All channel features screw terminals for convenient connection of field signals as well as LED's to indicate channel status. XON-CBXIO4 can be easily control by XON-CBXC08.
XON-CBXI16		Digital Input Only Box - 16 Channel Digital Inputs Provides 16 optical isolated digital input channels and all of them can be used as counter. All channel features screw terminals for convenient connection of field signals as well as LED's to indicate channel status. All inputs are equipped with photo-couplers to protect the module against high voltage spikes and ground potential differences.
XON-CBXO16		Relay Output Box - 16 Channel Relay Outputs Provides 16 optical isolated digital output channels that allow you to output open collector signal to driven your devices on RS485 network. All channel features screw terminals for convenient connection of field signals as well as LED's to indicate channel status. All inputs are equipped with photo-couplers to protect the module against high voltage spikes and ground potential differences.
XON-CBXPOS		RS232 POS Capture Box - RS232 to Ethernet Converter Provides recording transaction data and search capability for specific keyword recorded from POS data. Overlay of transaction data in live view and playback.

Ordering Info

The X-ON NDVR Series systems follow model nomenclature below and offered in the following channel/storage configurations. For example to order a Hybrid SV-406 series NVR with 10 TB of storage with NO-RAID, 16 Channels D1 Realtime recording Analog and 20 Channels IP, you would use HSV-410N-20-416.

Please consult our pricing guide for more information.

