

CAPABILITIES

NXU Series Pure IP Software

Scalable
4 - 32
CHs!



Model Numbers:

- NXU8004 - 4 channel solution
- NXU8008 - 8 channel solution
- NXU8016 - 16 channel solution
- NXU8032 - 32 channel solution

Key Points:

- Supports all major IP camera brands
- Scalable 4 to 32 channel inputs
- Online live system and IP camera support upgrades
- Supports up to 5 MegaPixel
- Inclusion of AVerMedia's performance-driven intelligence, search and monitoring features
- Included USB security flash drive for an extra layer of protection



The AVerMedia NXU Series turns any PC into a virtual NVR without needing any additional hardware! By allowing users to pull together their perfect system, from a wide selection of IP cameras, PC workstations, servers and transaction-oriented systems like POS, the NXU series provides effective video management software that is custom fit for unique surveillance and security needs.

This is truly performance-driven operation that is scalable, proactive and at a much lower total cost of ownership.

ADMINISTRATION AND CONFIGURATION

- Supports all major IP camera brands
- Up to 5 MegaPixel IP camera support
- Video compression: MPEG4, H.264, or original format of IP camera(s)
- Live web-based updates for system and/or IP camera support
- Compatible with any PC or server (needs to meet system requirements)

NV SERIES INTEGRATION

- Add a total of 32 IP channels to any NV series video capture card by simply installing any NXU series software in a system that is using a card (must be up-to-date with the latest application software for the NV series)

SECURITY

- The exclusive algorithm and chipset within the NXU series USB flash drives protects your system from illegal piracy

CAPABILITIES

MONITORING

For environments that depend on live video, the NXU series offers many features for fast & responsive event management:

- 4 - 32 Channels network video and audio inputs
- Supports video resolution up to 1920 x 1200
- Dual-monitor output support
- 8 different E-maps showcasing camera, sensor and relay positions for effective situation command
- IP camera Input/Output control and Pan-Tilt-Zoom
- Auto scan with full screen display and 1, 4, 8, 9, 13, 16, 32-camera display modes
- "Attention Please" feature helps maintain and evaluate operator performance

Alarm/Notifications

The NXU is ready and prepared for incident response by:

- Launching the corresponding Emap
- Enlarging the camera view and enables PTZ present point tracking
- Playing warning sounds
- Sending Emails, files to FTP, SMS/MMS
- Making a phone call
- Sending video to Central Management System
- Launching the alarm SOP wizard

INTELLIGENCE

To reduce security staffing and/or to manage high-volume video, the NXU also provides intelligence that is triggered by:

- On-board Motion Detection
- Missing Objects in monitored zones
- Suspicious Objects in monitored zones
- Camera Scene Change

RECORDING

Based on environmental needs, recording can be setup to maximize video quality and minimize storage needs:

- Continuous recording
- Smart - record continuously at lower fps and jump to maximum fps incase of activity
- Motion triggered recording
- Event alarm triggered recording
- User authorized manual recording
- Included HDD calculator will keep an eye on storage space to guide recording preferences

ENHANCEMENT

The NXU offers editing software to boost video quality:

- iEnhance - color, noise and light manipulation
- iStable - smooths shaking and jolts

FORENSICS

In environments such as retail stores that require the rapid retrieval and export of pertinent data for investigations or legal evidence, the NXU provides:

Search

- Defined parameter search by date, time, camera, area, event, and event log file
- Visual search that visually breaks down video by day, hour, minute, 10 seconds and second
- Time search to scroll through by moments
- Easy retrieval and playback of footage by "Bookmarking" significant segments
- Advanced event log search by event, operation, POS, system and network activities

Backup and Playback

- Based on chosen system, easily export/backup to DVR-RW/ CD-RW, flash memory, external HDD, NAS, SAN and RAID
- iBackup software ensures easy backup and playback
- Easy playback with video converted to AVI file by Windows Media Player

REMOTE

Multicasting

- To reduce fragmented or slow live video caused by large amounts of concurrent remote views, the NXU includes "iDispatch" to multicast video streams that drastically lowers network, server and camera traffic and loads

Setup

- iSetup is bundled to make system changes remotely

Viewing

From laptops, cells phones, PDAs and more, you can track video whenever and wherever

- WebViewer, PDA Viewer, Handyviewer, JavaViewer, Smart Viewer and Remote Console

Multiple Systems

- iMatrix allows live and/or playback viewing from multiple remote NXU systems from one location
- With CM3000 central management software, you can have total command of remote NXU systems from one location

INTEGRATION

- POS connection available on every channel along with iPOS function that allows transaction data searches right from the live monitoring screen
- SDK is available to create customized integrations

NXU8000 Series Detailed Specifications

Unit	
Operating system	32-bit Windows XP/Vista/7
Compression	Software: H.264, MPEG4, MJPEG
Interface	USB
Video Inputs (analog)	N/A
Video Inputs (IP)	Video: 4/8/12/16/20/24/28/32 Streams: H.264/MPEG4/JPEG
Video Out	N/A
Video Format	IP/Megapixel Camera Specific
Recording Rates	Per camera specifications
Audio Input/Output	System Specific
Alarm Inputs/Relay Outputs	Optional
Supported IP cameras (support IP PTZ, IP IO, & IP audio if IP cameras built-in)	AXIS, Panasonic, SONY, Arecont, Mobotix, BOSCH, IQinvision, JVC, TOSHIBA, VIVOTEK, ACTi, D-Link, PiXORD, PELCO, Apron, Lilin and more
Browser/Remote Client	MS Internet Explorer 6+, Windows 2000, XP, VISTA
Software	
Interface	Graphical User Interface
Account Administration	Up to 256 accounts with configurable user privileges
Camera Administration	Add and configure all supported IP/Megapixel cameras through the GUI.
IP PTZ Control	Zoom-in/Zoom-out, Focus-in/Focus-out, Direction, Speed, Preset point, Autopan.
Playback Administration	Playback while recording or setup
	Play, rewind, fast-forward, frame-by-frame control
	Digitally zoom to specific regions on recorded video
	Export single frame to .jpg, export video clip to .DVR
Motion Detection	Configurable to sense mass/motion; can partition off areas in monitoring regions from motion triggers
Event Recording	Schedule: Continuous, Smart, Motion, Alarm, Manual
Video Event Search	Visual Search, date/time, camera, event & log files
Advanced Event Log	Full event, operation, system & network activities log
Alarm Notifications	Launch or send E-map, relay, video capture, CM3000 or E-mail notification
E-map Display	Positions of cameras, sensors, relays and event status
iEnhance	Enhance video quality such as Brightness/Contrast/Hue/ Saturation/ Sharpness/ Noise Reduction/De-interlace/ Gray Scale of recorded video
iStable	One-click fix for shaky video caused by camera movement (such as wind or vandalism)

Remote Management	
Central Management	CM3000 software - supports up to 1000 DVRs
Remote DVR connectivity	WebViewer (MS Internet Explorer only), Remote Console, JavaViewer, PDAViewer
Dispatch Server	Balance NVR communication for added client access and greater data transfer speeds
DDNS	Allow remote clients to search dynamic servers without enquiring for server's IP address
Warranty	
2 Year Limited Parts and Labor	

RECOMMENDATIONS

NXU Series Hardware Recommendation List

Motherboard

Our products support most of the current Intel chipset for motherboards. Intel 848, 865, 875, 915, 925, 945, 955, 965, P35, NVIDIA nFORCE4 SLI - Intel Edition, and NVIDIA nForce3 250Gb Platform Processor chipsets.

Below is a list of Motherboards that our validation labs have tested; however we do support other motherboards beyond the ones listed below

Intel Socket

	Asus	Gigabyte	MSI	EpoX	Intel	FOXCONN
848	P4P800 SE					
865	P4P800	GA-8IPE1000				
	P4P800-VM	GA-8IG1000Pro-G				
	P4P8X	GA-8IPE1000-G (Rev 3.1)				
	P5P800					
875	P4C800	GA-8IK1100	875P Neo FISR			
		GA-8I875				
915	P5GD1 Pro	GA-8I 915G -Duo	915G Combo	EP-5EPA+		
925	P5AD2 Premium				D925XCV	
945	P5LD2	GA-8I945P-G				
	P5LD2-VM	GA-8I 945G -MF				
	P5PL2-E	GA-945PL-S3 (Rev 2.0)				
		GA-8I945PL-G				
955		GA-8I955X Pro				
		GA-8I955X Royal				
965	P5B Deluxe/WiFi-AP	GA-965P-DS3P (Rev 3.3)				
		GA-965P-DS3 2.0				
P31		GA-P31-DS3L				
P35	P5K SE	GA-P35-DS3 (Rev 1.0)				P35A-S
	P5K R	GA-P35-DS3 (Rev 2.0)				
	P5KC	GA-P35-DS3R (Rev 2.0)				
P45		GA-EP45-DS3L				
X38	P5E					
NVIDIA nForce4 SLI - Intel Edition	P5ND2-SLI Deluxe					

System Requirements:

- **CPU:** Pentium 4, 3.0 GHz or higher
- **OS:** 32-bit Windows XP/Vista/7
- **RAM:** 512MB
- **HDD:** 80GB or higher
- **CD-RM/DVD-RM**
- **Graphic Card:** 32-bit high color SVGA graphics card with 128MB video memory and DirectDraw/YUV Rendering Capability
- **10/100 Base-T Ethernet card**
- **Sound card and speaker**
- **System requires 1 dedicated USB port for Security Flash Drive**

Note:

Based on Intel's suggestion, for all of Microsoft Windows XP Operating Systems, Hyper-Threading must be disabled in the system BIOS for our DVR products. For the most stable security DVR system, we strongly recommend NOT using VIA/SiS/ALI chipsets and SiS VGA chips with our products due to their severe limitation of the chipset design.

Please make sure you are using the standalone VGA card with 128 MB memory above instead of built-in onboard VGA card in order to ensure the working stability and performance of the NV/NXU series software.

We highly recommend against using Samsung Hard Disk Drives for SA, XR and EXR DVR products.

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AMD Socket

Brand	Asus	Gigabyte
NVIDIA nForce3 (250Gb Platform Processor)		GA-K8NSC-939
NVIDIA nForce4 570 SLI		GA-M57SLI-S4
NVIDIA nForce® 570 Ultra™ MCP	M2N-E	

RECOMMENDATIONS

NXU Series Hardware Recommendation List

Graphic Card

Our products support most of the current Graphic Chipsets on the market today. Below is a list of Graphic Cards that our Validation Labs have tested; however, we do support beyond the hardware listed below. Graphic Cards tested:

ATI Chipset

Brand	ATI	Asus	Gigabyte
8500	ATI 8500	A7000	
9700	ATI 9700 Pro		
9800			GV-R98P128D GV-R98X256D
X300		EAX300SE EAX300SE / TD	
X550		EAX550GE	
X700		EAX700 EAX700 / TD / 256M / A	
X800		EAX800 Pro/2DTV	GV-RX70128DE
X1300PRO		EAX1300PRO SILENT TD/256MB/DDR2	
Radeon HD 2400 XT			GV-RX24T256HP/256MB/DDRIII
RADEON HD 2400PRO		EAH2400PRO HTP/256MB/DDR2	
Radeon HD 2600 Pro		GV-RX26P512H/512MB/DDRII	

Nvidia Chipset (Performance:Basic)

Brand	ASUS	ELSA	Gigabyte	LEADTEK	MSI
GeForce4 FX	ASUS V9480	ELSA 525 ELSA 728	GV-N4464TE	WinFast A170 WinFast A280	
GeForce FX5200			GV-N52128DS		
GeForceFX 5600	ASUS V9560	ELSA 732		WinFAST A310	
GeForceFX 5900		ELSA 935			
GeForce 6200 TC			GV-NX62TC128D GV-NX62TC256D8		
GeForce 6600			GV-NX66128D GV-NX66128DP		NX6600-TD128E
GeForce 6800			GV-NX68256D		
GeForce 7200GS	EN7200GS HTD/256MB/DDRII				

Nvidia Chipset (Performance:Advanced)

Brand	ASUS	ELSA	Gigabyte	LEADTEK
GeForce 8400GS	EN8400GS HTP/ 256MB/DDRII			PX8400GS TDH/ 256MB/DDRII
GeForce 8500 GT		ELSA GLADIAC 850GT 256B2 2DT RH	GV-NX85T256H/ 256MB/DDR2 GV-NX85T256HP/ 256MB/DDRIII	
GeForce 8600 GT	EN8600GT/2DHT/ 256M			
GeForce 9500 GT			GV-N95TOC-512H	

Support ATI:

Radeon 8500 / 9000 / 9200 / 9550 / 9600 / 9700 / 9800 / X300 / X550 / X700 / X800 / X1300PRO / HD2400XT / HD 2400PRO / HD2600PRO

Support NVIDIA:

GeForce4 FX / GeForce MX / GeForce FX 5200 / GeForce FX 5600 / GeForce FX 5900 / GeForce 6200 / GeForce 6600 / GeForce 6800 / GeForce 7200 / GeForce 8400GS / GeForce 8500GT

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RECOMMENDATIONS

NXU Series Hardware Recommendation List (continued)

PTZ Camera (visit our website support/download page for a complete list)

Brand	Product Number
AmericanDynamics	all products
Canon	VC-C4R
CD55	all products
DiGiDome	DRX -502A (DOH-240)
DMP23-H2	DMP23-H2
DynaColor	All products
Eastel	all products
ELMO	PTC -200C
Fastrax II	HID-2404
JVC	TK-C676 / TK-C675
Lilin	PIH 717X / 7000 / 7600 / PIH 7622/ 7622DH / 7635DH
MD101	all products
MicroJack-P	all products
NiceCam	all products
Panasonic	WW-CS850 / WW-CW860 / WW-CS950 / CS850B / CW860A / WW-CZ352
Pelco	Pelco-D/ Pelco-P
Philips	TC8560, TC700
SamSung	SCC-641
Sony	15-CZ45-1 /EVI-D70P
Yoko	all products

USB to Serial Hubs (Could be compatible w/ POS Series, PTZ Camera, UPS Series)

Brand	Model	Capacity
MOXA	Uport 1410	

Raid System

Brand	Product Number
Stardom	SR3610-2S-SB2
AVerDigi	RA4000e

PDA Basic requirement

Notice: This feature is only available on version 5.1 or above AP. For customers who are using 5.0 version of AP, please visit the Support/Download page to download and upgrade to the latest version of AP

1. CPU: Arm architecture, for example, Intel Xscale.
2. OS: MS Window Pocket PC 2002/2003 or Mobile 5 and above.
3. GPRS or WLAN module is recommended.

Windows Mobile Smartphone Basic Requirement

Notice: This feature is only available on version 5.7 or above AP. For customers who are using v.5.5, v5.1 or v5.0 version of AP please visit the Support/Download page to download and upgrade to the latest version of AP

1. CPU: Arm architecture, for example, Intel Xscale.
2. OS: Windows-base, Windows Mobile 2002/2003 for Smart Phone Edition or Windows Mobile version.
3. Network module such as WAP,GPRS,WLAN...etc is required .

Symbian Smartphone Basic Requirement

Notice: This feature is only available on version 7.1 or above AP. For customers who are using v5.7, v.5.5, v5.1 or v5.0 version of AP please visit the Support/Download page to download and upgrade to the latest version of AP

1. OS:Symbian Smartphone
2. The OS needs to support JAVA MIDP 2.0(JAVA2 ME)
3. Network module such as WAP, GPRS, WLAN, etc is required.

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