

••• **NV6240E-16 CH**

Express hybrid capture card solution; best for mid-sized businesses and small educational facilities



Overview

- Express hybrid capture card solution; best for mid-sized businesses and small educational facilities
- 16 channels Video and Audio input with 240fps recording rate
- PCI-Express interface provides higher bandwidth and great performance
- Brand new user interface tailored for wide screen monitors (1440x900, 1680x1050, and 1440x900)
- 1280x960 live view resolution – best live video quality in the industry
- Multiple and configurable channels display on spot and TV monitors
- Supports dual monitor for independent live view, playback or map
- Expand up to 32 channels by installing two NV6240EXP-16CH cards
- Display up to 32 channels on one monitor
- POS Integration allows for easy association of retail transaction data and corresponding video images
- Integrated remote functionality allows access to video footage anywhere, anytime!
- Free SDK

NV6240EXP-16CH Specifications

CPU	Pentium 4® 3.2 GHz, Dual Core 1.8 GHz CPU or higher recommended
Operating System	Windows 2000®, Windows XP® or Windows VISTA®
Hybrid	Yes - use any combination of IP or Analog inputs
IP Camera Support	Over 100 major IP camera brands supported including Megapixel
Video Format	NTSC or PAL
Software Compression	H.264 or MPEG4
Video Output	CCTV, TV or LCD monitors
Video Input	16 channels (BNC connectors) - stackable up to 32 channels
Audio Input	16 channels
Display Rate	240 fps
Recording Frame Rate	240 fps
Recording Resolution	up to 720x480
User Access	Unlimited number of users with individual passwords and tiered user privileges
Sensor/Relay	Built in 4 sensors and 4 relays; Expandable up to 132 sensors and 132 relays via an E-I/O box

User Interface:

Type	Graphical User Interface
Modes	Compact and Advanced modes
Display Formats	Auto scan with 1, 4, 8, 9, 13 or 16 split screen for monitoring and playback
E-Map Specifications	Store up to 8 maps with up to 8 angles for camera (including name), sensor and relay positions
Night View Ability	Yes
Digital Zoom	Yes
Pan-Tilt-Zoom Control	Control for both IP and Analog cameras
Multiple Languages	Yes
Video Quality Settings	Yes
Over Heat Detection	Yes

External Device:

Dual Monitor Support	Yes
Spot Monitor Support	Yes
POS Integration	Yes

Recording Features:

Recording Modes	Continuous, Scheduled, Motion Detection, Sensor trigger, Alarm trigger and Smart recording
HDD Size Estimation Tool	Yes - Will estimate HDD size and expected recording time based on HDD size and recording settings
Video Encryption	Yes
Video Shield	Yes
Video Mask	Yes
Recycle Recording	Yes
Video Loss Detection	Yes
Event Log	Yes
Auto Record after Reboot	Yes

Playback Features:

Video Search	Yes
Watermark Verification	Yes
Playback Software on PC	Yes
Playback Availability	Playback while recording or setup. With Dual Monitors - watch playback and live video simultaneously
Playback Control	Play, rewind or fast-forward footage including frame-by-frame control with real time access
Video Optimization	Digitally zoom in to specific areas on the video footage
Export Functions	Export single frames to BMP files or export video clips to AVI files with time and date stamp

Search Features:

Visual Search	Yes
Search Criteria's	Search by date, time, camera, event and event logs
Bookmark Function	Yes - Bookmark important footage for fast access

Search Features (continued):

Watermark Verification	Yes
Export Functions	Export single frames to BMP files or export video clips to AVI files

Back-up:

Back-up features	Manual or schedule backup
Backup Functions	Direct burn to CD/DVD-RW

Alarms/Sensors/Relays:

Alarm Trigger Notifications	E-map - E-map is launched with active camera highlighted and monitoring footage displayed
	FTP - Still images of event footage are automatically saved to specified FTP sites
	Phone - Installed Voice-Fax modem calls specified phone number and plays pre-recorded message
	Relay - System will turn on lights, lock gates, sound an external alarm, etc.
	Record - System will start capturing video footage from different angles on multiple cameras
	Spot Monitor - Will automatically display E-map and event footage on spot monitor
	Text Message - If DVR is SMS modem enabled, then a text will be sent to specified phone number
CM3000 - Event information will be automatically generated in the CM3000 for follow-up	
Video Intelligence	Yes
I/O Box Support	Built in 4 sensors and 4 relays; Expandable up to 132 sensors and 132 relays via an E-I/O box

Remote Accessibility:

Remote Accessibility	WebViewer - 1, 4, 8, 9, 13 or 16 split screen views with PTZ control for hybrid cameras
	PDAViewer - View video footage on a PDA in 1 or 4 split screens
	HandyViewer/SmartViewer - View video footage on compatible cell phones
	CM3000 - Control and manipulate up to 1000 DVRs remotely; Includes hybrid PTZ and E-Maps
	Remote Console - Remotely monitor, record or playback video footage
Audio	2-way audio communication through WebViewer, Remote Console or CM3000
Pan-Tilt-Zoom	Yes - Both IP or Analog cameras through WebViewer or CM3000
Backup	Yes
Dynamic DNS	Yes
Connection Types	Internet or LAN speeds

Video Quality:

De-Interlacing	Yes for Static or Dynamic footage
Noise Reduction	Yes
Image Balance	Yes - Auto Gain Control (AGC) balance image quality
iEnhance Software	Yes - optimizes recorded video footage
iStable Software	Yes - smoothes video footage

Scheduling Abilities:

Schedulable Functions	Record, network enable, backup, reboot, alarm and relay controls
Allocations	Functions can be scheduled in 15 minute, 30 minute, 45 minute or 1 hour increments
	Set for a one-time event or on a weekly repeating schedule

Security Product Hardware Recommendation List

Requirements:

- CPU: Pentium 4 3.2 GHz or higher; Dual core CPU is highly recommended
- PCI-Express x1
- OS: Windows 2000/XP/Vista Professional
- RAM: 1024MB or higher
- HDD : 120GB or higher
- CD-RM/DVD-RM
- 32-bit high color SVGA graphics card with 64MB video memory and DirectDraw/YUV Rendering Capability
- 10/100 Base-T Ethernet card
- Sound card and speaker

Recommendation List:

Note: Based on Intel's suggestion, for all of Microsoft Windows XP Operating Systems, Hyper-Threading must be disabled in the system BIOS Setup program ([see FAQ for procedure](#)) 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/NX series software.

NV6000 Express Series

Special CPU recommend

If you would like to use recording resolution of 640 x 480 and 30 fps(Turbo mode), Core 2 Duo E6600 CPU is a basic requirement.

Motherboard

Our products support most of the current Intel chipset for motherboards. Intel 915, 945, 965, 975, P31, P35 chipset, NVIDIA nForce 4 Ultra MCP, NVidia nForce 570 SLI, and NVIDIA nForce4 SLI Intel chipset

Note: For better performance and system stability we highly recommend using a CSA/ PCI-E Giga Ethernet infrastructure motherboards. For further information please refer to Intel's Website. Below is a list of Motherboards that our Validation labs have tested; however, we do support beyond the motherboards tested in our lab.

Brand	Intel Socket						
	915	945	965	975	P31	P35	NVIDIA nForce4 SLI Intel
Asus		P5LD2	P5B			P5K SE	P5ND2-SLI Deluxe-TAY
		P5LD2-VM					
Gigabyte	GA-8I915G-MF	GA-8I945P-G	GA-965P-DS3	GA-G1975X-C	GA-P31-DS3L (Rev 1.0)	GA-P35-DS3 (Rev 1.0)	
	GA-8I915G-Duo	GA-945PL-S3 (Rev 2.0)	GA-965P-S3				
			GA-965P-DS3P (Rev 3.3)				
Epox	EP-5EPA+						

Brand	The Intel socket allows user to install two NV6000 E cards on the motherboard and these two cards can support 32 channels video input.				
	915	945	965	P31	P35
Gigabyte	GA-8I915G Duo	GA-945PL-S3 (Rev 2.0)	GA-965P-DS3P (Rev 3.3)	GA-P31-DS3L(Rev 1.0)	GA-P35-DS3 (Rev 1.0)

Brand	AMD Socket	
	nVidia nForce4 Ultra MCP	nVidia nForce 570 SLI
Shuttle XPC SN25P	FN25	
Gigabyte		GA-M57SLI-S4

Brand	The AMD socket allows user to install two NV6000 E cards on the motherboard and these two cards can support 32 cannels video input.	
	nVidia nForce 570 SLI	
Gigabyte	GA-M57SLI-S4	

Graphic Card

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

Support ATI: Radeon X300/X600/X700/X1300

Support NVIDIA: GeForce PCX 5750/GeForce 6200/GeForce 6600

Below is a list of Graphic Cards tested:

Brand	ATI Chipset			
	X300	X600	X700	X1300
Asus	ATI Radon x300se	ATI Radeon X600 Pro	ATI Radeon X700	ATI Radeon x1300 Pro

Brand	Nvidia Chipset		
	GeForce PCX 5750	GeForce 6200 TC	GeForce 6600
Gigabyte		GV-NX62TC256D8	NX66128DP
MSI	PCX5750-TD128E		

PTZ Camera [Please click here for the full IP camera support list](#)

Brand	Product Number
DynaColor	All products
Pelco	Pelco-D
	Pelco-P
Lilin	PIH 717X / 7000 / 7600
Sony	15-CZ45-1
DMP23-H2	DMP23-H2
MD101	all products
CD55	all products
NiceCam	all products
Yoko	all products

PTZ Camera List (continued)

Brand	Product Number
DiGiDome	DRX -502A (DOH-240)
SamSung	SCC-641
Canon	VC-C4R
Panasonic	WV-CS850 / WV-CW860
Eastel	all products
MicroJack-P	all products
JVC	TK-C676
Philps	TC8560, TC700
ELMO	PTC -200C
AmericanDynamics_UltraS	all products

USB to Serial Hubs, could be compatible with POS Series, PTZ Camera, and UPS Series

Brand	Product Number
MOXA	Uport 1410

Raid System

Brand	Product Number
Stardom	SR3610-2S-SB2

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: Microsoft Window Pocket PC 2002/2003 or Mobile 5 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 v5.5, 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, v5.5, 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 need to support JAVA MIDP 2.0(JAVA2 ME)
3. Network module such as WAP, GPRS, WLAN ...etc is required.

*Hardware recommendation is the minimum required hardware specification for running our system, not a guarantee to achieve the best performance of our DVR system. Hardware specifications required to achieve the best performance of our DVR system are subjected to different system settings and operation conditions.