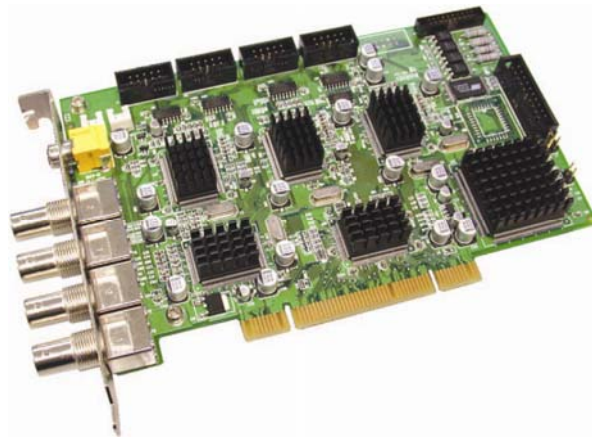


**• NV5000**

**Affordable hybrid entry-level capture card solution; best for convenience stores and small businesses**



**Overview**

- Affordable hybrid entry-level capture card solution; best for convenience stores and small businesses
- 4 channels Video and up to 4 channels optional Audio input with Real-Time recording
- Brand new user interface tailored for wide screen monitors (1680x1050 and 1440x900)
- POS Integration allows for easy association of retail transaction data and corresponding video images
- Integrated remote functionality allows access to video footage anywhere, anytime!

## NV5000 Specifications

|                      |   |
|----------------------|---|
| CPU                  | Pentium 4® 3.0 GHz or higher  |
| 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 | MJPEG, MPEG4 and H.264  |
| Video Output         | CCTV, TV or LCD monitors  |
| Video Input          | 4 channels - BNC connectors (stackable for up to 16 channels)                                 |
| Audio Input          | Up to 4 channels with optional expandable card  |
| Display Rate         | 120 fps   |
| Recording Frame Rate | 120 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 3 relays; Expandable up to 132 sensors and 131 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 3 relays; Expandable up to 132 sensors and 131 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, 3.0 GHz or higher
- OS: Windows 2000/XP/Vista Professional
- RAM: 512MB
- HDD : 80GB 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:

#### NV3000/5000

##### Motherboard

Our products support most of the current Intel chipset for motherboards. Intel 848, 865, 875, 915, 925, 945, 955, 965, P31, P35, P45, X38, NVIDIA nFORCE4 SLI - Intel Edition, NVIDIA nForce3 250Gb Platform Processor chipsets.

Below is a list of Motherboards that our Validation labs have tested; however, we do support beyond the motherboards tested in our lab

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

| AMD Socket                                     |              |       |
|--|--------------|-------|
| Brand  | Gigabyte     | ASUS  |
| <b>NVIDIA nForce3 250Gb Platform Processor</b> | GA-K8NSC-939 |       |
| <b>nVidia nForce 570 SLI</b>                   | GA-M57SLI-S4 |       |
| <b>NVIDIA nForce® 570 Ultra™ MCP</b>           |              | M2N-E |

## 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 8500/9000/9200/9550/9600/9700/9800/X300/X550/X700/X800/X1300PRO/HD2400XT/HD2400PRO/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/GeForce 8600GT/GeForce 9500GT

| ATI Chipset        |              |                                  |                            |
|--------------------|--------------|----------------------------------|----------------------------|
| Brand              | ATI          | Asus                             | Gigabyte                   |
| 8500               | ATI 8500     | A7000                            |                            |
| 9700               | ATI 9700 Pro |                                  |                            |
| 9800               |              |                                  | GV-R98P128D<br>GV-R98X256D |
| X300               |              | EAX300SE<br>EAX300SE / TD        |                            |
| X550               |              | EAX550GE                         |                            |
| X700               |              | EAX700<br>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<br>ELSA 728 | GV-N4464TE                   | WinFast A170<br>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<br>HTD/256MB/DDRII |                      |                              |                              |               |

| Nvidia Chipset (Performance: Advance) |                             |                                 |  |                             |
|---------------------------------------|-----------------------------|---------------------------------|--|-----------------------------|
| Brand                                 | ASUS                        | ELSA                            | Gigabyte   | LEADTEK                     |
| GeForce 8400GS                        | EN8400GS<br>HTP/256MB/DDRII |                                 |  | PX8400GS<br>TDH/256MB/DDRII |
| GeForce 8500 GT                       |                             | ELSA GLADIAC 850GT 256B2 2DT RH | GV-NX85T256H/256 MB/DDR2<br>GV-NX85T256HP/256MB/DDRIII |                             |
| GeForce 8600 GT                       | EN8600GT/2DHT/256M          |                                 |  |                             |
| GeForce 9500 GT                       |                             |                                 | GV-N95TOC-512H   |                             |

**PTZ Camera (Please download a complete list by visiting the support/download page on our website)**

| Brand     | Product No.            |
|-----------|------------------------|
| DynaColor | all products           |
| Pelco     | Pelco-D<br>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           |
| DiGiDome  | DRX -502A (DOH-240)    |
| SamSung   | SCC-641                |
| Canon     | VC-C4R                 |
| Panasonic | WV-CS850 / WV-CW860    |
| Eastel    | 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 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. Windows-base, Windows Mobile 2002/2003 for Smart Phone Edition or Windows Mobile version above.
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 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.