

IP Surveillance Systems

Overview

- Video output port on NS4120/NS4240
- Video input ports on NS4240 allow you to connect up to 3 analogue CCTV cameras = 4 cameras at 1 IP address!
- In-built video motion detection with multiple sensitivity windows.
- Network Camera cased in industrial grade high tensile aluminium
- UNIX operating system
- Built-in web and ftp server with network connection

Hardware

- Digital 24 bit colour

Image sensor

- Sony super HAD interlaced CCD (*NS4000 CMOS image sensor).
- Resolution (pixels); NS4100/4120/4240 704x576(Single), 352x288(Quad)
- Resolution (pixels); NS4000 640x480(Single).
- NS4000: 400 TV Lines
- NS4100/4120/4240: 480 TV Lines

Exposure

- Backlight Compensation.
- Automatic Gain Control (AGC).
- Automatic and fixed White Balance.
- Manual Electronic shutter
- 1/50 - 1/10.000 sec. (PAL).
- Auto Electronic Shutter

Sensitivity

- Illumination range: 0.5 to 200 000 Lux with F1.4 3.2-10mm DC-Iris vari-focal lens. Ideal for low light conditions

Lens

- Built-in support for DC-iris lenses.
- Standard CS mount lens fitting.
- NS4000 fitted with Focal length 6.0mm F1.8 Lens (for indoors only)
- NS4120/NS4120/4240 is fitted with a high quality Japanese DC-Iris vari-focal lens F1.4 3.2-10mm.

Image

- JPEG still images and Motion-JPEG video.
- Powerful hardware-based image compression system generating high quality motion JPEG images.
- Image frame rate:
- Up to 25 frames/sec on all *cameras. (25fps is full motion video.) at 352x288 resolution. *NS4240 up to 48 frames per second (12fps per camera in quad display).
- Up to 10 frames/sec. at 704x576 resolution (NS4100/4120/4240)
- 32 levels of compression are available. The file size of a JPEG compressed image depends on the actual content of the image.

Resolution	Compression		
	Low	Medium	High
PAL, 352x288	12k	8k	4k
PAL, 704x576	52k	34k	20k

- Variable bandwidth control prevents data saturation on the network. Full motion video at 25 frames/sec. typically requires about 0.80 Mbit/sec.

General I/O

- Dial-in and Dial-out access via external modem (modem not included).
- Event triggered remote image storage via e-mail and FTP.

Video Input/Output

- 1.0V (p-p) 75 ohm, sync negative.

System Requirements

- Compatible with operating systems such as Windows 98, Windows 2000, Windows XP, Windows NT, Windows ME, Linux, Mac OS and Mac OS X.
- Internet Explorer 4.x, 5.x, 6.x or Netscape Navigator 4.x.
- Non-network, i.e. modem installation requires Windows PC with Dial-up networking.

Supported Protocols

- TCP/IP, HTTP, FTP, SMTP, ARP, BOOTP, PPP, CHAP, PAP, DHCP, DDNS and more.

Security

- Secure 3-layer password/username protection restricts access to single users, workgroups, or setup to be openly available to the Internet community

Hardware

- Powerful 32 Bits RISC CPU
- 2 Mbyte Flash ROM
- 16 Mbyte SDRAM
- WatchDog Chip to monitor out tolerance system voltage and abnormal program behaviour.

Firmware updates

- Flash memory for fast upgrades and storage of user customised html files.

Connections

- 10/100 RJ-45 port
- Video ports - output for recording to VCR and input for connecting external CCTV cameras (N4120 1 output, NS4240 3 inputs and 1 output).
- 4 fully opto-isolated alarm inputs and 1 3A,125VAC/30VDC Relay output
- RS-232/485 port for PTZ (pan/tilt/zoom) camera control
- RS-232 serial port for external console
- DC-Iris lens connector.

Power Supply

- External power supply connector; NS4120 - 12V DC 1A, NS4000/4120/4240 - 14/13.8V AC 1A
- Power Consumption - 7watts

Operating Environment

- Requires appropriate cameras housing for outdoor installation.
- Operating temperature: 5-50 °C
- Humidity: 20-80% RHG, non-condensing.

Dimension/Weight

- Height 54mm
- Width 77mm
- Length 194mm (with lens)
- Weight 1.1kg (excludes weight of stand and power supply.)
- 2 Mbyte Flash ROM
- 16 Mbyte SDRAM
- WatchDog Chip to monitor out tolerance system voltage and abnormal program behaviour.

Approvals

- EMC : FCC Class A, Part 15 subpart B
- CE : EN 55022 Class B, EN55024
- C-Tick for Australian conditions

Accessories Included

- Lens
- Mounting bracket (steel)
- Product CD
- Attento Demo DVR software
- Ethernet Cable
- IP Installer
- CS ring adjuster tool
- MiniDIN to D-sub cable (NS4000/4100/4240)
- BNC to GPIO cable (NS4120)
- Power Supply
- Demo CD of Attento Software

