Network Video Server

Bring Advanced Network IP Camera Features to your CCTV System!

The Network Video Server (NVS) allows you to transmit video images through the network using your existing closed circuit TV cameras. Using the NVS you can now add the sophisticated features previously available only through Network IP Cameras. The NVS allows you to continue to expand your video surveillance system with new technology, while protecting existing investments.

No Dedicated PC Required
Accessing CCTV systems through the network typically requires a dedicated PC. The NVS allows you to access your closed circuit TV cameras without the need for a dedicated PC or any additional software programs.

Easy Setup
The NVS is easy to install because the Web Page/IP Installer makes assigning an IP address quick and simple.

Compatible with Most Equipment
The NVS can be used in a mixed environment with Windows, Unix, Mac and OS/2. It supports TCP/IP networking, SMTP E-mail, HTTP, and other Internet-related protocols. It allows you to grow your video surveillance system by integrating existing investments with new equipment, allowing you to support a wide variety of cameras.

Simultaneous Viewing
Up to 100 people can be simultaneously accessing the NVS at any one time. This is very useful in applications like Kindergarten class monitoring by parents from their work or home.

Event Triggering
Upon detecting motion, an alarm from an infrared sensor, or on a scheduled basis, the NVS can either 1) send an alarm, 2) E-mail a captured image, or 3) send a captured image to an FTP server. This “event triggering” capability is becoming more and more popular as companies are required to pass security audits in compliance with various legislature.

Security
The NVS includes a self-contained Web server, which means that digital images can be secured like any other Internet host. The Network Administrator can use multi-user password protection to decide whether individuals, groups, or the whole world may access the camera.

Lifetime Warranty
Strict manufacturing standards assure the highest quality in all INTELLINET NETWORK SOLUTIONS products. All items carry a full Lifetime Warranty – the strongest quality commitment anyone can make.
Features

CONVENIENT OPERATION
The NVS is a stand-alone system with built-in CPU requiring no special hardware or software. It supports both Active X mode for Internet Explorer and JAVA mode for Internet Explorer and Netscape Navigator. All you need is a common web browser, such as Microsoft Internet Explorer 4.x or above.

OPEN STANDARDS
The NVS supports TCP/IP networking, SMTP, Email, HTTP, and other Internet-related protocols. It can be used in a mixed operating system environment with Windows, Unix, Mac and OS/2.

SIMPLE ADMINISTRATION
The NVS can be configured and managed directly from its own embedded web pages using a standard web browser, and its embedded operating system is upgradeable through the network.

EXTERNAL DEVICES
The auxiliary input/output connector on the camera allows you to connect the NVS to a variety of external devices, such as IR sensors, switches, and alarm relays.

SECURITY
The NVS includes a self-contained web server, which means that digital images can be secured like any other Internet host. Your network administrator, using the unit’s security settings in combination with the organizations Internet firewall, can decide whether individuals, groups, or the whole world may access the camera. The NVS supports multi-user password protection.

COMPRESSION AND PERFORMANCE
With an adaptive frame rate dependent on the image and lighting conditions, the NVS delivers JPEG images at up to 30 images per second.

EMBEDDED LINUX SYSTEM
The NVS uses an embedded Linux operating system within its 32 bit RISC CPU. Linux is based on UNIX and is one of the most stable operating systems available. The high reliability of Linux makes it an excellent operating system for an application such as video surveillance.

REAL-TIME JPEG COMPRESSION
Video input is efficiently compressed into packets of JPEG images without delay. Using ten levels of compression ratio, and three sizes of image resolution, the NVS creates an equivalent image using a much smaller file size, improving remote monitoring performance and storage capabilities.

BROAD RANGE OF APPLICATIONS
The NVS allows remote access from a web-browser for live image viewing and allows the administrator to manage and control the NVS anywhere and anytime across the globe. The NVS can be applied to monitor various objects and places such as homes, offices, banks, hospitals, childcare centers, amusement parks, and other varieties of industrial and public monitoring. The NVS can also be used for intruder detection, capturing still images for archiving and analysis. The NVS can also be used for intruder detection, capturing still images for archiving and analysis.

APPLICATION SOFTWARE
The NVS includes the following software with the device:
• IP Installer (for quick installation)
• Upgrade Software (for remote upgrades)
• Multi-viewer Software (for viewing up to 4 cameras concurrently on a single screen)
• PDA Viewer (for viewing the camera on Windows CE PDA devices)

System Requirements

NETWORK
• 10Base-T or 100Base-TX Fast Ethernet

RECOMMENDED PC OR NOTEBOOK SYSTEM REQUIREMENTS FOR ACCESSING THE VNS
• CPU: Pentium II, 266 MHz or above
• Memory Size: 32 MB (64 MB recommended)
• VGA Card Resolution: 800 x 600 or above

WEB BROWSER
• Internet Explorer 5.0 or above (Active X & JAVA Mode – Image View for Windows OS and JAVA Mode – Image View for other operating systems)
• Netscape 6.0 or above (JAVA Mode – Image View)

MULTI-VIEW APPLICATIONS
• CPU: Pentium III, 450 MHz or above
• Memory Size: 128 MB (256 MB Recommended)
• VGA Card Resolution: 800 x 600 or above

Specifications

SYSTEM
• Operating System: Embedded Linux
• Flash Memory: 4 MBytes
• Main Memory: 16 MBytes
• Channel: 1 Channel (BNC)
• CPU: 32 bit RISC Embedded Processor

IMAGE
• Image Compression: JPEG
• Compression Rate: 10:1
• Max Frame Rate: 30 fps at 320 x 240

NETWORK
• Port Speed: 10Base-T Ethernet or 100Base-TX Fast Ethernet
• LAN Port: One RJ-45
• Supported protocols: TCP/IP, ARP, RARP, ICMP, DHCP, FTP, SMTP, PPP
• Image Viewer: Web Browser
• Security: ID, Password Protection
• Maximum Simultaneous Users: 100

PORT/GPIO
• 1 x BNC (coaxial) Input Port
• 1 x BNC (coaxial) Output Port
• RS-485 Port: 1 Port (Select RS-232 or RS-486
• Sensor Output: 1
• Alarm Output: 1
• Output of 12 V to power external devices (max 150 mA)

ENVIRONMENTAL
• Operating Temperature: -10C – 50C (-14F - 122F)
• Storage Temperature: -25C – 70C (-13F - 158F)
• Operating Humidity: 30 – 80% RH below
• Storage Humidity: 93%

POWER
• Power Input: AC 110 – 220 V
• Power Consumption: 12 V DC, 1.5 A
• Current Consumption: 7.5 W / 600 mA (12 V DC)

PHYSICAL DIMENSIONS
• Size: 85 (W) x 44.5 (H) x 125 (L) mm (3 3/8 x 1 3/4 x 5 in.)
• Weight: 230 g (8.1 oz.)

PACKAGE CONTENTS
• Video Network Server
• Power Adapter
• RS232 Cable
• Software CD
• User Manual
Bring Advanced Network IP Camera Features to your existing closed circuit TV cameras. Using the NVS you can now add the sophisticated features previously available only through Network IP Cameras. The NVS allows you to continue to expand your existing closed circuit TV cameras without the need for a dedicated PC or any additional software programs.

The NVS can be used in a mixed environment with Windows, Unix, Mac and OS/2. It supports TCP/IP networking, making it possible to access your closed circuit TV cameras from anywhere in the world. The NVS can be applied to monitor various objects and places like Kindergarten class monitoring by parents from their work or home.

Event Triggering

Upon detecting motion, an alarm from an infrared sensor, or on a scheduled basis, the NVS can either 1) send an alarm, 2) E-mail a captured image, or 3) send a captured image to an FTP server. This “event triggering” capability is becoming more and more popular as companies are required to pass security audits in compliance with various legislature.

Accessing CCTV systems through the network typically requires a dedicated PC. The NVS allows you to access your closed circuit TV cameras, allowing you to view and control your CCTV System from any Internet host. The Network Administrator can use multi-user password protection to decide whether an individual, group, or the whole world may access the camera.

SECURITY

The auxiliary Input/Output Connector on the camera allows you to connect the camera to your own external alarm system. The NVS can be secured like any other router.

Simultaneous Viewing

Up to 100 people can be simultaneously accessing the NVS at any one time. This is very useful in applications such as homes, offices, banks, hospitals, child-care centers, amusement parks, low public areas, etc. The high reliability of Linux make it an excellent operating system for an application such as video surveillance.

REAL-TIME JPEG COMPRESSION

Video input is efficiently compressed into packets of JPEG images without delay. NVS creates an equivalent image using a much smaller file size, improving remote monitoring performance and storage capabilities.

CONVENIENT OPERATION

The NVS uses an embedded Linux operating system within its 32 bit RISC CPU. With an adaptive frame rate dependent on the image and lighting conditions, the high flexibility of video input, the NVS is an excellent choice as a Network Video Server.

For more information on INTELLINET NETWORK SOLUTIONS products, consult your local dealer or visit www.intellinet-network.com.

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