PelcoNet™ NET4001A

IP NETWORK VIDEO TRANSMISSION WITH DVD QUALITY VIDEO

Product Features

- DVD Quality Video
- Simultaneous MPEG-2 and MPEG-4 Video Streams
- Full Integration with Pelco’s Matrixes, Genex® Multiplexers, Spectra® Domes, and Esprit® Positioning Systems
- Video, Audio, and Data over IP
- Adjustable Bandwidth, Image Rate, and Quality
- View Video on PC, Analog Monitor, or Both
- NTSC and PAL
- 1 Alarm Inputs, 1 Relay Outputs
- Serial Port RS-422 Programmable
- Includes Rack Kit for EIA Standard Rack Mounting

The NET4001A brings DVD quality video in MPEG-2 or MPEG-4 format to Pelco’s line of video transmission systems. Additionally, its versatility as a transmitter or receiver eliminates the inconvenience of ordering different products for transmitting and receiving video.

The NET4001A can be used in all applications where RG-59/U coax cable is unfeasible due to distance or installation difficulty. The IP-based video transmission system can display video on a PC using Internet Explorer, an analog monitor, or both. The traditional limitation in IP-based video has been reduced image quality, but now DVD quality images are available using the NET4001A.

The NET4001A transmits or receives live video, data, and audio across existing Ethernet networks. Sending video and audio over computer networks yields significant cost savings by using an existing computer network to monitor a remote site. The NET4001A saves installation costs (no separate cabling required), allows toll-free operation (intranets), and saves management costs (single, uniform network).

With minimal setup, the NET4001A transmission system can be installed and running in minutes.

When using two NET4001As, connect a camera to a transmitter unit and an analog monitor to a receiver unit. Then connect the transmitter and receiver to the network and configure IP addresses for the equipment using a standard terminal program or any Internet browser. If you need to control a camera (operate pan, tilt, and lens functions, or do presets and patterns), an RS-232 data interface links the keyboard controls to the network and then from the network to the camera system.

Instead of (or in addition to) a receiver and monitor, an Internet browser can be used at the receiving end to display video on a PC. On-screen keyboards in the NET4001A let you control the following devices over the network: System 9700 Series or CM6700/CM6800 matrix controller, Genex multiplexers, Spectra domes, and Esprit positioning systems.

The NET4001A now gives you DVD quality video when using computer networks to interface your control and monitoring stations with remote camera sites, whether they be in the same building, across the country, or around the world.
## TECHNICAL SPECIFICATIONS

### MODELS

**NET4001A**  
Network video transceiver that encodes and decodes video, audio, and control data for transmission over an IP network.

### Minimum Requirements:
- PC (Pentium® 4 microprocessor, 1.6 GHz) with Windows® 98/2000/XP or higher operating system
- 256 Mbyte RAM
- ATI RADEON® 7500 or 8500, Matrox® G550 or Parhelia™, or NVIDIA® GeForce™ 3 or 4 with direct show-compatible MPEG-2 playback capability (DVD player) graphic card
- 100 Mbit ethernet card
- Sound card required for audio application
- Microsoft® Internet Explorer 5.5 (or higher) or free serial interface and terminal program or PelcoNet NET4001A (acting as receiver) and video monitor
- DirectX® 8.1 or 9.0
- Microsoft Virtual Machine
- Screen resolution of 800 x 600 pixels or higher, 16- or 32-bit pixel color resolution

### NETWORK PROTOCOL AND STANDARDS COMPATIBILITY

#### Internet Configuration
- RTP, RTCP, UDP, TCP, IP, HTTP, SNMP, IGMP, ICMP, ARP, DHCP

#### Video Coding
- MPEG-2, MPEG-4, (M-JPEG in Server Push mode only)

#### Video Frame Rate
- Up to 30 images/second

### INTERFACES

#### Video Input
- 1, BNC, PAL/NTSC, 75 ohms, 1 Vp-p

#### Video Output
- 1, BNC, PAL/NTSC, 75 ohms, 1 Vp-p

#### Audio Input
- RCA phono jack, stereo

#### Audio Output
- RCA phono jack, stereo

#### LAN Interface
- UTP (Ethernet 10/100BASE-T autosensing), RJ-45

#### LAN Data Rate (approx.)
- MPEG-2 1 Mbit/s to 6 Mbit/s
- MPEG-4 9.6 kbit/s to 1.5 Mbit/s

### DATA INTERFACE
- 2, RS-232/RS-422/RS-485, bi-directional (9-pin, D-sub)

### ALARM INPUT
- 1 terminal for direct connection of control, maximum 40 V, 0.8 A

### ALARM OUTPUT
- 1 terminal for relay

### VIDEO

#### Video Standards
- PAL, NTSC

#### Video Image Size
- **PAL**  
  - 704 x 576 pixels (high resolution)  
  - 352 x 288 pixels (CIF)
- **NTSC**  
  - 704 x 480 pixels (high resolution)  
  - 352 x 240 pixels (CIF)

#### Power
- Operating Voltage  
  - 90-250 VAC, 50/60 Hz
- Operating Current  
  - 100-250 VAC, 50/60 Hz
- Power Consumption  
  - 100mA

### GENERAL

#### Dimensions
- 1.7” H x 8.1” W x 11.9” D (4.4 x 20.5 x 30.1 cm)

#### Unit Weight
- Approx. 4.4 lb (2.0 kg)

#### Shipping Weight
- Approx. 8 lb (3.6 kg)

### CERTIFICATIONS
- CE, Class B
- cTUVus
- FCC, Class B

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