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PelcoNet™ NET350

IP NETWORK VIDEO TRANSMISSION WITH COMPACTFLASH® INTERFACE AND AUDIO

Product Features

- Send and Receive Live Video, Audio, and Control Data Over Ethernet Networks
- Dual MPEG-4 Video Streams
- CompactFlash® Interface for Local Recording
- Full Integration with Pelco's Matrices, Genex® Multiplexers, Spectra® Domes, and Esprit® Positioning Systems
- Adjustable Bandwidth, Image Rate, and Quality
- View Video on PC, Analog Monitor, or Both
- NTSC and PAL
- Alarm Input and Relay Output
- Two Bidirectional Data Channels Via RS-232 and RS-232/422/485 Serial Ports



The **NET350** can be used in three ways:

- **Standalone** – as a transmitter or receiver for a camera where BNC cable is not possible. This allows one-way video transmission for fixed cameras or the option of sending control signals to a Spectra® dome or Esprit® positioning system.
- **Analog to Ethernet "Bridge"** – as a way of using one or more **NET350s** connected to a system of Pelco matrices or Genex® multiplexers to view video from a vast number of camera analog inputs. In this application the analog device is being used as a "concentrator" to allow viewing of hundreds of cameras without incurring the cost of hundreds of encoders.
- **Complete Ethernet System** – as a way of controlling an unlimited number of cameras via **NET350s** by using Pelco's VMX series of matrix control software in a purely Ethernet or hybrid system. Ethernet systems involve using an encoder with each camera and using the Ethernet as a virtual matrix. This is cost efficient for new installations or add-ons to existing installations. Using the VMX300 as control software for existing systems as well as new Ethernet portions allows the user to build the industry's only truly "hybrid" CCTV system.

The **NET350** can display video on a PC using Internet Explorer®, an analog monitor, or both.

PelcoNet™ transmits **(NET350T)** or receives **(NET350R)** 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 **NET350** saves installation costs (no separate cabling required), allows toll-free operation (intranets), and saves management costs (single, uniform network). With minimal setup, the NET350 transmission system can be installed and running in minutes.

When using a **NET350T** and a **NET350R**, connect a camera to a transmitter and an analog monitor to a receiver. 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 **NET350** 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.

All recordings can be stored locally using a CompactFlash® card or miniature disk drive (up to 1 GB capacity).

The **NET350T**, featuring CompactFlash and dual MPEG-4 video streams, lets you use computer networks to interface your control and monitoring stations with remote camera sites, whether they are in the same building, across the country, or around the world.

International Standards Organization Registered Firm; ISO 9001 Quality System

TECHNICAL SPECIFICATIONS

MODELS

NET350T	Network video transmitter that encodes video, audio, and control data for transmission over an IP network
NET350R	Network video receiver that decodes video, audio, and control data received from an IP network

Minimum PC Requirements (as needed)

- PC (Pentium® 4 microprocessor, 1.6 GHz) with Windows®98/2000/XP or higher operating system
- 256 MB of RAM
- Gateway to the network
- 100 Mbit Ethernet card
- Sound card if using audio application
- Microsoft® Internet Explorer 6.0 (or higher), or free serial interface and terminal program, or PelcoNet NET350R (receiver) and video monitor
- DirectX® 8.1 or 9.0 application programming interface
- Microsoft Virtual Machine
- Screen resolution of 1024 x 768 or higher, 16- or 32-bit pixel color resolution
- Graphic Card: ATI RADEON™ 7500 or 8500, Matrox G 550 or Parhelia™, or NVIDIA® GeForce 3 or 4 with MPEG-4 playback capability

RELATED PRODUCTS

NET300	Network video system that transmits (NET300T) or receives (NET300R) live video and control data across Ethernet networks. Features dual MPEG-4 video streams.
VMX300	Video management system that provides control and monitoring of both analog and digital video systems. Supports client-to-server, client-to-multiple servers, and server-to-server configurations.

NETWORK PROTOCOL AND STANDARDS COMPATIBILITY

Internet Configuration	RTP, RTCP, UDP, TCP, IP, HTTP, SNMP, IGMP, ICMP, ARP
Video Coding	MPEG-4 (M-JPEG in Server Push mode only)
Video Frame Rate	Up to 30 images/second

INTERFACES

Video Input or Output	1, BNC, PAL/NTSC, 75 ohms, 1 Vp-p
Audio Input/Output	3.5 mm stereo jack ring contact
LAN Interface	Ethernet 10/100BaseT autosensing, RJ-45
LAN Data Rate	9.6 Kbps to 5.0 Mbps
Data Interface	1 RS-232/RS-422/RS-485, bidirectional (9-pin, D-sub) and 1 RS-232 (9-pin, D-sub)
Alarm Input	1 terminal, 30 V maximum
Alarm Output	1 terminal, 30 V, 1 A

VIDEO

Video Standard	PAL, NTSC
Video Image Size	
PAL	704 x 576 pixels (4CIF) 704 x 288 pixls (2CIF) 352 x 288 pixels (CIF)
NTSC	704 x 480 pixels (4SIF) 704 x 240 pixels (2SIF) 352 x 240 pixels (SIF)

AUDIO

Input Voltage	1 Vp-p (line level)
Input Impedance	50 kohm
Input Frequency Range	300 Hz - 10 kHz
Audio Distortion	<1%
Audio Signal-to-Noise Ratio	>50 dB (maximum)
Maximum Output Voltage	2.5 Vp-p
Maximum Output Power RMS	60 mW
Output Impedance	8, 16, 32 ohms

POWER

Type	Plug power adapter
Operating Voltage	12-24 VDC, power supply included
Power Consumption	Approximately 10 W

MISCELLANEOUS

LED Displays	5 LEDs (alarm, relay, connection, data, power)

ENVIRONMENTAL

Operating Temperature	32° to 122°F (0° to 50°C)
Operating Humidity	80% maximum relative humidity, noncondensing
Storage Temperature	-4° to 140°F (-20° to 60°C)
Storage Humidity	95% maximum relative humidity, noncondensing

GENERAL

Dimensions	5.6" W x 1.3" H x 5.3" D (14.3 x 3.3 x 13.5 cm)
Unit Weight	Approximately 0.9 lb (0.4 kg) without power supply
Shipping Weight	Approximately 2 lb (0.9 kg)

CERTIFICATIONS

- CE, Class B
- cTUVus
- FCC, Class B

OPTIONAL ACCESSORIES

NET350RK	Rack mount for 1-3 units. Fits standard 19-inch EIA rack or console (1 RU).

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