

# NET5301R Video Decoder

## MULTI-STREAM, NTSC/PAL



### Product Features

- Simultaneously View up to Four Video Streams on Composite Video, S-Video, or VGA Monitor
- Video, Audio, and Data Over IP Network
- EnduraView™ Technology Optimizes Video Display
- Three Programmable Alarm Inputs (Supervised or Unsupervised), One Relay Output
- Two Security Modes
- Bidirectional Audio Support
- Optional Wall and Rack Kits Accommodate up to 12 Units



The **NET5301R** is a high-performance, multi-stream video decoding unit. Its main function is to convert digital MPEG-4 streams into analog video signals. The **NET5301R** can display up to four streams simultaneously at a variety of image rate and quality settings. It can process up to 30 high quality images per second.

The Endura™ system incorporates EnduraView™ video optimization technology to select the best image quality and frame rate for the **NET5301R**, all without affecting the system recording rate.

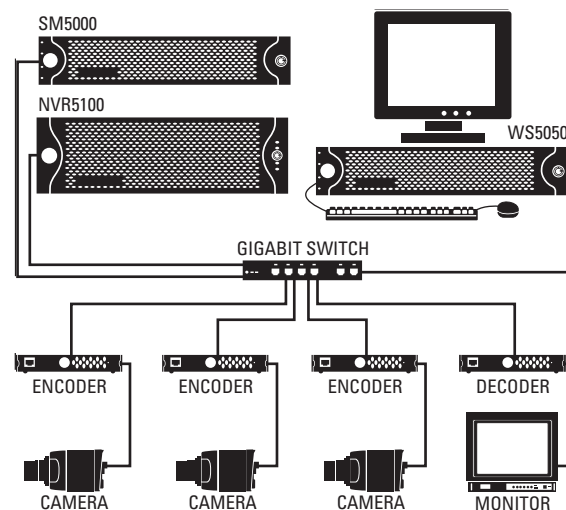
The **NET5301R** can display video streams from various Endura products on the system network. In addition to live video streams from multiple NET5301T video encoders, you can play back video from one or more NVR5100 Series network video recorders. When displaying multiple images, the unit optimizes the video display frame rates automatically to provide the best rate for the cameras.

The **NET5301R** offers both unsecured and secured modes. The secure mode uses a proprietary key system to prevent unauthorized devices from communicating with a **NET5301R** over the Endura network.

The **NET5301R** is also designed for maximum system integration and flexibility. Each unit can be operated by either a 12 VDC or a 24 VAC power source. Each unit also supports NTSC and PAL video formats.

Use the **NET5301R** to extend audio from the system to the decoder site. The unit transmits and receives live audio across the network, letting you listen to activity in an area or speak to a person.

From any control device on the network, such as a VCD5000 Series video console display or a WS5050 Endura workstation, you can also operate any relay that is connected to the **NET5301R**.



**IMPORTANT NOTE: PLEASE READ.** The network implementation is shown as a general representation only and is not intended to show a detailed network topology. Your actual network will differ, requiring changes or perhaps additional network equipment to accommodate the system as illustrated. Please contact your local Pelco Representative to discuss your specific requirements.

*Endura distributed, network-based products are available only to certified dealers/integrators. Please contact your local sales representative for details on certification applications and requirements. Additional information on Endura products and certifications may be found at <http://www.pelco.com/endura>.*



C602 / REVISED 10-05



International Standards Organization Registered Firm; ISO 9001 Quality System



# TECHNICAL SPECIFICATIONS

## MODEL NUMBER

NET5301R Network video server that decodes video, audio, and control data transmitted over an IP network

## SUPPLIED ACCESSORIES

Mating Connector One 16-pin  
4-Pin to 2-Pin Adapter For user-supplied power supply

## SYSTEM

Processor PowerPC® 405EP  
Operating System Linux®  
User Interface Remote operation via WS5050 or VCD5000

## VIDEO/AUDIO

Video Standards NTSC/PAL/EIA/CCR composite  
NTSC/PAL S-Video  
VGA (1024 x 768)  
60 Hz capability for NTSC  
75 Hz capability for PAL

Video Coding MPEG-4

Video Resolutions

	NTSC	PAL
4CIF	704 x 480	704 x 576
2CIF	704 x 240	704 x 288
CIF	352 x 240	352 x 288
QCIF	176 x 120	176 x 144

Video Outputs/Connectors BNC, 75  $\Omega$ , 1 Vp-p  
S-Video, 4-pin mini-DIN, Y/C  
VGA, DB15

Video Display Streams 4

Video Display Modes Single image, 2x2

Audio Encoding G.711 speech codec

Audio Bit Rate 64 kbps

Audio Levels

Line In/Line Out	1 Vp-p, 10 k $\Omega$
Microphone	5 mVp-p, approximately 40 k $\Omega$
Speaker	2.5 Vp-p, 30 mW, minimum 16 $\Omega$

Audio Connectors Two 3.5 mm monaural

Connector Tip Signal high (input and output)

Connector Sleeve Common

Audio Inputs Microphone or line in

Audio Outputs Speaker or line out

Audio Switch Line, microphone/speaker

## ALARMS/RELAYS

Alarm Inputs 3, programmable, 3.3 VDC, 1 k $\Omega$ , triggered; uses 6 of 16 pins on terminal block connector

Relay Output 1, form-C relay, 30 VDC, 1A; uses 3 of 16 pins on terminal block connector

## AUXILIARY INTERFACES

Serial RS-422; uses 4 of 16 pins on terminal block connector

Terminal Block Connector 16-pin: 3 alarm inputs, 1 relay output, serial

## FRONT PANEL INDICATORS/FUNCTIONS

Network Connector RJ-45, 10/100BaseT

Power Blue

Status Green, amber, red

Network Link/Speed Amber, red

Network Activity Green

Configuration/Reset Recessed button, 4 states

## POWER

Power Consumption 12 watts, 41 BTU/H

Power Input 12 VDC +10%/-15%  
24 VAC +10%/-15%

Power Connectors

4-Pin	For RK5000PS-5U or NET5301PS
4-Pin to 2-Pin Adapter	For user-supplied power supply

## ENVIRONMENTAL

Operating Temperature 32° to 122°F (0° to 50°C)

Storage Temperature -40° to 149°F (-40° to 65°C)

Operating Humidity 20% to 80%, noncondensing

Maximum Humidity Gradient 10% per hour

Operating Altitude -50 ft to 10,000 ft (-16 m to 3,048 m)

Operating Vibration 0.25 G at 3 Hz to 200 Hz at a sweep rate of 0.5 octave/minute

## PHYSICAL

Construction Sheet metal

Finish Gray metallic with black end caps, black matte finish

Dimension 8.75" D x 6.5" W x 1.2" H  
(22.2 x 16.5 x 3.0 cm)

Mounting Desktop (feet), wall, or rack via options

Unit Weight 2.0 lb (0.9 kg)

Shipping Weight 5.0 lb (2.3 kg)

## OPTIONAL MOUNTING ACCESSORIES

RK5000PS-5U Rack mount with power supply (12 units)

WM5001-4U Wall mount without power supply (1 unit)

WM5001-4UEXP Wall mount expansion (1 unit)

## RECOMMENDED POWER SUPPLIES

NET5301PS Power supply for one decoder (4-pin connector)

TF2000 Power supply for one decoder (4-pin to 2-pin adapter)

MCS Series Multiple unit power supply, indoor

## CERTIFICATIONS AND REGULATIONS

- CE, Class B
- UL Listed
- UL Listed to Canadian safety standards
- FCC, Class B
- C-Tick

## STANDARDS/ORGANIZATIONS

- Pelco is a member of the MPEG-4 Industry Forum
- Pelco is a member of the Universal Plug and Play (UPnP) Forum
- Pelco is a member of the Universal Serial Bus (USB) Implementers Forum
- Pelco is a contributor to the International Standards for Organization/Electrotechnical Commission (ISO/IEC) Joint Technical Committee 1 (JTC1), "Information Technology," Subcommittee 29, Working Group 11
- Compliance, ISO/IEC 14496 standard (also known as MPEG-4)
- Compliant with International Telecommunication Union (ITU) Recommendation G.711, "Pulse Code Modulation (PCM) of Voice Frequencies"



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