NET5402R-HD Network Video Decoder

HIGH DEFINITION NETWORK DECODER WITH DUAL MONITOR OUTPUT

Product Features

- Decode Standard Resolution and Megapixel Resolution Streams
- Simultaneously Drive Two High Definition Monitors From a Single Unit
- Support for MPEG-4, H.264 Baseline, Main, and High Profile Codecs
- Simultaneously View up to Sixteen MPEG-4 Streams at 4CIF Resolution, 30/25 Images Per Second (ips); up to Twelve H.264 Streams at 4CIF Resolution, 30/25 ips; or up to Two 1080P Streams in Real Time
- EnduraView™ Technology Optimizes CPU Load and Bandwidth Utilization when Displaying Multiple Cameras Simultaneously
- Maintains Aspect Ratio of Original Stream
- Supports Monitor-Wall Configurations When Used in Conjunction with an Endura® VCD5202
- Supports Alarm/Spot Monitor Capability, Including Sequencing, When Programmed with Endura Scripts
- Supports User-Specified Language Choices for User Interface Display

The NET5402R-HD is a high performance, multistream network decoder capable of displaying streams from IP cameras and video encoders compressed in standards-compliant MPEG-4 or H.264 baseline, main, or high profiles.

The NET5402R-HD uniquely addresses the requirements of real-time surveillance installations with the complexity introduced by today’s IP and megapixel cameras. Each decoder can simultaneously decode and display up to sixteen MPEG-4 streams at 4CIF resolution, 30/25 ips; up to twelve H.264 baseline streams at 4CIF resolution, 30/25 ips; or two 1080p streams at 30 ips. When additional streams are displayed, the NET5402R-HD uses the patent-pending EnduraView™ technology to automatically seek out and display a second stream from the camera. The technology can also reduce the refresh rate automatically to minimize the impact on processing requirements and network overhead.

Different streams can be displayed in 1 x 1, 2 x 2, 3 x 3, 4 x 4, 1 + 5, 1 + 12, and 2 + 8 configurations for 4:3 aspect ratio monitors. In addition, 3 x 2 and 4 x 3 screen configurations are available for 16:9 aspect ratio monitors. Any combination of live and playback streams can be displayed simultaneously, including both live and playback streams from the same camera.

Each NET5402R-HD network decoder is capable of driving two high definition displays (monitor resolutions up to 2560 x 1600). The unit’s monitors can be integrated into a video wall controlled by the VCD5202. The cameras and configurations of each monitor can be independently changed through the WS5000 or the VCD5202.

Finally, the NET5402R-HD supports audio output, allowing an operator to monitor audio transmitted by a camera.
## TECHNICAL SPECIFICATIONS

### MODELS
- **NET5402R-HD-US**: HD network video decoder, North America
- **NET5402R-HD-AR**: HD network video decoder, Argentina
- **NET5402R-HD-AU**: HD network video decoder, Australia
- **NET5402R-HD-CN**: HD network video decoder, China
- **NET5402R-HD-EU**: HD network video decoder, Europe
- **NET5402R-HD-UK**: HD network video decoder, United Kingdom

### VIDEO
- **Maximum Monitor Resolution**: 2560 x 1600
- **Video Coding**: MPEG-4, H.264 baseline, main, and high profiles
- **Video Display Modes**: 1 image, 4 images (2 x 2), 9 images (3 x 3), 16 images (4 x 4), 6 images (1 large + 5 small), 10 images (2 large + 8 small), 13 images (1 large + 12 small); High definition monitors can also display 6 images (3 x 2) and 12 images (4 x 3)
- **Decoding Performance**: 16X real-time MPEG-4 streams at 704 x 480/576; 12X real-time H.264 baseline profile streams at 704 x 480/576; 2X real-time H.264 baseline profile streams at 1080p
- **Video Outputs**: 2 DVI outputs (2 DVI-to-VGA adapters supplied)

### NETWORK
- **Interface**: Gigabit Ethernet RJ-45 port (1000Base-T)

### FRONT PANEL INDICATORS/FUNCTIONS
- **Power**: Blue
- **Network Speed/Activity**: Green, amber, red
- **Unit Status**: Green, amber, red
- **Power Button**: On, off (soft), off (hard)

### POWER
- **Power Input**: 100 to 240 VAC, 50/60 Hz, autoranging
- **Power Supply**: Internal
- **Power Consumption**:
  - Operating Maximum: 100 VAC 170 W, 1.70 A, 580 BTU/H
  - 120 VAC 170 W, 1.42 A, 580 BTU/H
  - 240 VAC 170 W, 0.71 A, 580 BTU/H

### ENVIRONMENTAL
- **Operating Temperature**: 50° to 95°F (10° to 35°C) (at unit air intake; front panel)
- **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

**Note**: The temperature at the unit air intake can be significantly higher than room temperature. Temperature is affected by rack configuration, floor layout, air conditioning strategy, and other issues. To prevent performance failure and unit damage, make sure the temperature at the unit is continuously within the operating temperature range.

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Pelco, Inc. Worldwide Headquarters:
625 W. Alluvial Avenue, Fresno, CA 93711 USA
USA & Canada Tel: (800) 289-9100 • FAX: (800) 289-9150
International Tel: +1 (559) 292-1981 • FAX: +1 (559) 348-1120
www.pelco.com

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