

PELCO

NETWORK-BASED VIDEO SECURITY SYSTEM



Endura
NVR5000 Series

PROTECTING

PEOPLE AND PROPERTY IN A
MILLION LOCATIONS WORLDWIDE



Endura

The Pelco logo is located in the top left corner of the page. It consists of the word "PELCO" in a bold, sans-serif font, with a stylized circular arrow graphic above it. The background of the top half of the page features a pattern of light blue circles on a darker blue background.

ENDURA NETWORK VIDEO SOLUTION

ENDLESS ADAPTABILITY

PELCO IS PROUD TO INTRODUCE THE ENDURA™ HIGH-QUALITY, HIGH-PERFORMANCE NETWORK-BASED VIDEO SECURITY SYSTEM. WITH ENDURA, PELCO PROVIDES A POWERFUL DISTRIBUTED SYSTEM ARCHITECTURE AND HARDWARE/SOFTWARE PLATFORM FOR THE TOTAL UTILIZATION OF TODAY'S ETHERNET NETWORKS. THIS NON-CENTRALIZED SYSTEM ALLOWS CUSTOMERS TO MAKE USE OF A FACILITY'S NETWORK AND NETWORK INFRASTRUCTURE, REPRESENTING A SIGNIFICANT SAVINGS IN CABLING, HARDWARE, AND MANPOWER RESOURCES.

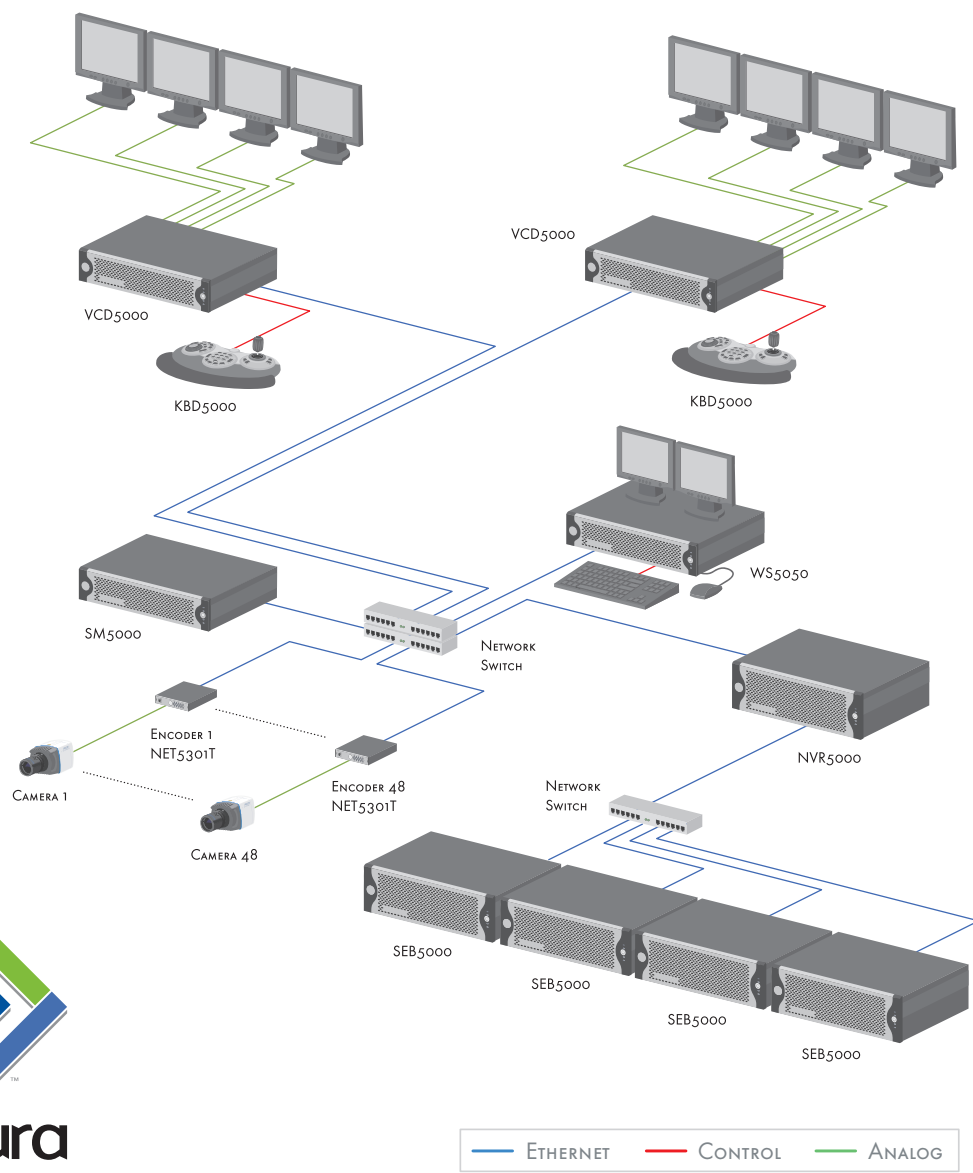
NO LONGER LIMITED BY TRADITIONAL, CENTRALIZED APPROACHES, ENDURA OFFERS AN UNCONSTRAINED PLATFORM FOR DESIGNING AND IMPLEMENTING VIDEO SECURITY SYSTEMS. THERE IS VIRTUALLY NO END TO HOW A SYSTEM AND ITS COMPONENTS CAN INTERACT AND SHARE VIDEO, AUDIO, AND CONTROL INFORMATION.

THE ENDURA HARDWARE PLATFORM OFFERS ALL THE COMPONENTS NECESSARY FOR DESIGNING, INSTALLING, AND UTILIZING COMPLETE NETWORKED DIGITAL VIDEO SYSTEMS. WITH ENCODERS, DECODERS, RECORDERS, PC WORKSTATIONS, CONSOLE DISPLAYS, STORAGE UNITS, AND ADVANCED MANAGEMENT TECHNOLOGIES, CUSTOMERS NOW HAVE ALL THE TOOLS NECESSARY FOR BUILDING A HIGH-PERFORMANCE VIDEO SECURITY SYSTEM — ALL DELIVERED OVER AN ETHERNET NETWORK WITH TOTAL ACCESS FLEXIBILITY.

ADDITIONALLY, PELCO HAS SOLVED THE CHALLENGE OF DIGITAL VIDEO SYSTEMS NOT OFFERING THE QUALITY AND RESPONSIVENESS OF TRADITIONAL ANALOG INSTALLATIONS. ENDURA UTILIZES OVER 30 PELCO-EXCLUSIVE PENDING US AND INTERNATIONAL PATENTS TO GUARANTEE THAT THE USER'S EXPERIENCE IS EVERYTHING IT NEEDS TO BE. WITH EXCELLENT IMAGE QUALITY, DYNAMIC VIDEO STREAM OPTIMIZATION, AND UNPARALLELED AGILITY ALLOWING FOR MINIMAL LATENCY, ENDURA'S PERFORMANCE IS AS POWERFUL AS ITS DESIGN IS INNOVATIVE.

DISTRIBUTED VIDEO: THE FUTURE OF SECURITY

Within the right environment, a decentralized, network-distributed video system offers substantial economical, installation and performance advantages over classic analog, matrix-based systems. For multi-room and multi-building facilities and campus settings with a Ethernet network, the infrastructure may be in place for an extremely powerful and flexible video security system. Essentially, video will flow wherever there is cable, and cable paths do not affect the functionality of the system. Information can flow from any point on the network to any other point on the network. Adding, moving or viewing cameras, monitors and control stations could not be easier. With the Endura solution, the ability to scale the system is boundless.



THE NETWORK IMPLEMENTATION(S) IS SHOWN AS A GENERAL REPRESENTATION ONLY AND IS NOT INTENDED TO SHOW DETAILED NETWORK TOPOLOGIES. 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.

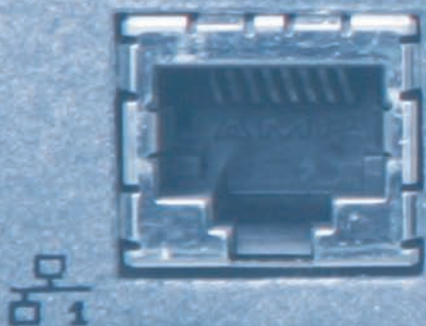
HIGH-QUALITY, HIGH-PERFORMANCE INNOVATION

ENDURA: THE FUTURE OF DISTRIBUTED VIDEO

Along with the very flexible physical attributes, network-based video security systems also offer a level of intelligence and communication between components not found in other systems. Endura components take full advantage of leading-edge technologies such as Universal Plug and Play, allowing for fast, error-proof installations and set up. Essentially, when an Endura device is added to a system, it announces itself and the services it has available. The existing devices acknowledge the new unit, and then begin exchanging information as user preferences and profiles dictate.

Competing approaches to network video are very simplistic. Most focus on basic video transport, attempting to replace the coax and move video around a network. A few may offer simple PTZ control, and perhaps simple alarm reporting, but no one comes close to the system functionality of Endura. And for the most part, all are strictly PC/Windows®-based systems. Endura offers a best-of-both worlds solution, providing all the functionality and flexibility that customers demand. While there can be PC-based Endura workstations incorporated into a system, they are not required. It is possible to build an entire Endura video security system without using Windows®. The Endura hardware platform is very powerful, and does not rely on any desktop operating system. For customers who demand analog feel and functionality, Endura systems make use of PTZ keyboards and video monitors in much the same way as analog video systems.

With Endura, video is displayed on monitors in the way that security industry professionals have become most comfortable. Banks of monitors with single or multiple views, with programmed sequences and alarm call-ups are standard features. And, Endura completely eliminates the notion that users have to live with low quality or low-frame-rate video. An Endura system is capable of full 4-CIF video quality, with full frame rate on every channel. Endura offers a very wide range of view and display options for Composite, S-Video and VGA monitors, including multi-screen views, and very easy-to-use "pick and drop" mouse control.



NET5301T



This powerfully flexible system provides the ability to set up all Endura devices to work together in customized ways without specialized or elaborate equipment. For example, an alarm trigger can be set to activate a relay or multiple relays, call-up cameras to specific monitors, trigger e-mails, or dozens of different actions, from anywhere on the network. A very impressive level of system diagnostic tools also has been implemented within Endura, ensuring that the system operates continuously at the optimum level. For an even deeper level of integration, Pelco is proud to make available a very advanced Endura SDK and industry-leading API tool set for third-party developers.

A primary goal of Pelco engineers was to be able to create a geographically dispersed system that shared a common, intuitive user interface — and in this we clearly succeeded. With Endura, from one component to the next, the look and feel of icons, tools, and interface are common throughout the system. This approach provides a quick learning curve for new users. In addition, system privileges and preferences are linked to the user. So as a user logs on and off the system from different locations, his security privileges and user parameters remain consistent.

MISSION-CRITICAL PERFORMANCE

And of course, with the huge range of innovations available within Endura, there's only one way to offer added protection to this extremely solid system — and that's with our Pelco, 100-percent customer satisfaction guarantee. At Pelco, we fully understand our responsibility in providing trustworthy technologies to the video security industry. We meet this responsibility by manufacturing well-engineered products that perform best under the unique, uncompromising demands of the security industry. For decades, Pelco products have been designed by security professionals, for security professionals. Our Endura family of products proudly continue in this tradition.



ENDURA COMPONENTS

ENCODER – NET5301T

The Net5301T is a high-performance MPEG4 video encoder. It accepts analog video and audio signals and converts them into digital TCP/IP packets, as well as provides an interface for relays and alarms.



DECODER – NET5301R

The Net5301R is a high-performance video decoder. It converts digital video and audio streams back into video output for viewing on a Composite, S-Video, or VGA monitor.



WORKSTATION – WS5050

The WS5050 Workstation is a Windows®-compatible system that is used for viewing video and configuring an Endura system. WS5050 is supplied with all PC hardware in a stand-alone box.



VIDEO CONSOLE DISPLAY – VCD5000

The VCD5000 is a high-performance, multiple-stream decoding unit. It converts multiple digital MPEG4 streams into video signals to be viewed on either Composite, S-Video, or VGA monitors. Up to four decoding cards can be added to this unit. Four models are available that allow users to tailor their viewing systems with up to 64 displays. An unlimited number of VCDs and Decoders can be controlled from a single VCD. Using an Endura Keyboard or a standard USB-compatible PC mouse and keyboard, users can access the on-screen menus and control an Endura System.



SYSTEM MANAGER – SM5000

The SM5000 System Manager is an integrated hardware/software component that provides distributed administration of multiple devices. The SM5000 also manages system security, functioning as a key server for user and device authentication.



RACK MOUNT – RK5000

The RK5000PS-5U is a 19-inch 5RU rack mount chassis that provides housing for up to 12 encoders and decoders. A single backplane provides power to all modules. Thermal management and mounting hardware is included. Additionally, the units feature a closure relay for signaling a warning in the event of a power failure.



POWER SUPPLY – EPS5000

An optional 1RU redundant power supply, EPS5000-300, provides added fault tolerance for up to two RK5000PS-5U racks.



WALL MOUNT – WM5000

The WM5001-4RU wall mount allows for installation of a single encoder or decoder in areas where rack space is limited. Users can "piggyback" additional modules with the WM5001-4RUEXP expansion kit. A total of four modules can be mounted together making it an ideal solution where wall space is limited.



NETWORK VIDEO RECORDER – NVR5000

Ranging from 24 to 48 channel/stream recording, the Endura NVR5000 is a series of high-performance network-based Video/Audio Recorders.



STORAGE EXPANSION BOX – SEB5000

The Endura Storage Expansion Box (SEB) is a high-performance storage solution. Each SEB box can add up to 3.9TB of network storage. Multiple SEBs can be attached to a single NVR unit, providing a very large, very scalable network storage solution.



KEYBOARD – KBD5000

The KBD5000 Endura Keyboard offers three swappable USB pods. These pods include a joystick, a jog shuttle, and function keys for control. The KBD5000 allows users to control the Endura System in a manner that is already familiar to most security personnel. This way, the Endura Keyboard extends the ease of use of the VCD and creates a familiar matrix design feel within a digital system.



ENDURASTOR STORAGE OPTIMIZATION

EnduraStor offers the ability to reduce the frame rate of previously recorded video on an Endura System after a specified period of time. After captured video has reached a user-defined age, EnduraStor goes to work to "prune" the database and reduce the number of recorded frames. By enabling EnduraStor within the system, a user has the unique ability to dramatically extend recording duration at a lower frame rate.

ENDURAVIEW VIDEO OPTIMIZATION

EnduraView is a Pelco-engineered technology, which guarantees the viewing experience. Unlike competitive products that allow the user to burden their system to a point at which it is overloaded and no video can be displayed, EnduraView constantly monitors and automatically adjusts the viewing system for the best picture possible — video viewing on an Endura system will not be compromised. From a full-screen, to quad, 9- or 16-view multi selections, EnduraView automatically delivers the best possible picture in the industry.



Endura

INTUITIVE, INTEGRATED INTERFACE

The Endura product family incorporates a very powerful graphical user interface (GUI), that makes use of a common, easy-to-use, heads up display. From one component to the next, the look and feel of icons, tools, and interface are the same throughout the system. Additionally, the system's unique, color-coded keyboard and visual approach provide an intuitive, easy-to-learn interface that dramatically reduces the learning curve for all users.



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