

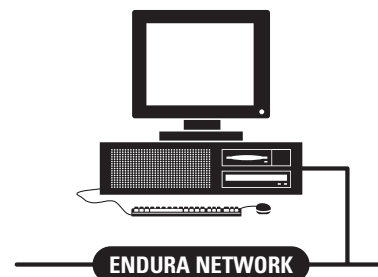
Endura[®] Advanced System Management Software

WS5200 VERSION 2.X MODELS



Product Features

- Software Runs on a Standard PC with Microsoft[®] Windows[®] XP Professional and 32-Bit Versions of Windows Vista[®] Business, Ultimate, or Enterprise, and 32-Bit or 64-Bit Windows 7 Operating Systems
- Highly Intuitive Graphical User Interface Optimized for the Needs of Surveillance Professionals
- Unrestricted Scalability Easily Manages up to 10,000 Devices Simultaneously
- Optional Mapping Interface Provides Editing and Alarm Monitoring/Management Tools
- Support for Standard Resolution and Megapixel Resolution Cameras
- Support for MPEG-4, H.264 Baseline, Main, and High-Profile Codecs
- Audio Streaming and Playback
- Zone of Interest[™] Allows Independent View and Management of Specified Areas Within a Camera's Field of View in Live or Playback Views
- Synchronized Playback of Multiple Cameras
- Digital Zoom in Live or Playback Views
- Convenient Tear-Off Options to Customize Display
- Maintains Camera's Native Aspect Ratio While Supporting 4:3 or 16:9 Aspect Ratio Monitors and a Mix of SD or Megapixel Video Content
- Capable of up to 16 Simultaneous 4SIF/CIF Resolution, 30/25 Frames per Second (fps) MPEG-4 Decode, 12 H.264 4SIF/CIF Resolution, 30/25 fps H.264 Baseline Decode, or 2 Full 1080 Pixels Decode in Real Time
- EnduraView[™] Technology Mitigates CPU Processing Requirements and Network Bandwidth Consumption for Multiscreen Configurations
- Integrated Configuration and Administration Interface Provides Full-Management Capability for All Components
- Powerful Scripting Engine to Automate Virtual Matrix Functionality
- On-Screen Pan/Tilt/Zoom (PTZ) Controls Including Click to Center and PTZ to Selected Area
- Camera Callup and PTZ Control from KBD5000
- Advanced Search Capabilities Including Motion, Alarm, Event, Analytics, and Camera
- Integrated Event and Alarm Monitoring and Management Interface
- User-Specific Choice of Language, Rights and Permissions, and Screen Configurations
- Export Video and Still Images in Multiple Formats Including PEF, PPX Playlists, MPEG-4, AVI (Without Audio), PNG, BMP, and JPG



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.



by Schneider Electric

International Standards
Organization Registered Firm,
ISO 9001 Quality System



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TECHNICAL SPECIFICATIONS

The **WS5200** Advanced System Management Software provides access to all operation and configuration features of the Endura® system in a unified, intuitive, graphical user interface. The interface has been optimized for the demanding needs of surveillance professionals and utilizes drag-and-drop operations, shortcut menus, built-in tooltips, and online Help to enable the most direct, intuitive interactions with cameras and components distributed across the network.

Video Display Optimized for Surveillance

Surveillance operators require access to real-time live video and instant access to playback. The **WS5200** has been specifically designed to optimize performance, productivity, and effectiveness. Operators can customize up to six active workspaces. Each workspace can have its own screen configuration populated with any grouping of cameras. These workspaces allow the operator to rapidly switch from camera group to camera group. The workspaces and camera associations are automatically loaded upon login, along with the user's language preferences and permission levels. This eliminates any lost time in changing screen layouts or configurations during shift changes.

The second generation of the **WS5200** has also been designed to deliver optimum decoding performance to take advantage of the latest capabilities of analog cameras and advances in compression technology. The **WS5200** supports MPEG-4 as well as all common profiles of the latest H.264 codec. Provided the host PC has enough processing power, users can simultaneously decode sixteen 4CIF, MPEG-4 video streams in real time, or twelve H.264 baseline profile streams in real time, or two 1080p streams in real time. Of course, any combination is also supported. Additionally, more cameras can be viewed simultaneously using the **WS5200's** convenient tear-off tabs and leveraging multiple monitors to display up to 32 cameras concurrently. Endura's patent-pending EnduraView™ technology will manage the CPU processing load and network bandwidth requirements by automatically seeking out and displaying a lower resolution, secondary stream (if one exists), or reducing the refresh rate to ensure that system stabilization is not jeopardized.

To take advantage of the latest developments in monitor technology and camera capabilities, the **WS5200** interface automatically detects the monitor's native resolution and aspect ratio and configures the display to accommodate what the monitor can support. Based on the monitor's native aspect ratio, the **WS5200** supports screen configurations in single-image, 2 x 2, 3 x 3, 4 x 4, 1 + 5, 1 + 12, and 2 + 8 for 4:3 aspect ratio displays and adds 3 x 2 and 4 x 3 for 16:9 aspect ratio displays. As different cameras operate in different aspect ratios, the **WS5200** will maintain the native aspect ratio of the camera to minimize any potential distortion of the image. An innovative Zone of Interest™ feature makes it convenient to leverage the power of today's megapixel cameras to cover a large field of view while allowing a user to independently select certain areas of the scene to get a closer view. The **WS5200's** zone of interest capability consumes no additional processing power or network bandwidth as a user creates up to six independently controlled zones of interest from a single camera.

Recorded footage can be instantly accessed for any camera without impacting live surveillance of other cameras on the same monitor. Flexible synchronous playback allows operators to synchronize the playback of 16 cameras for investigations that require multiple vantage points of the same event. Camera controls, PTZ operation, video playback controls, snapshot capture, and export tools all conveniently appear over the video when the cursor is placed on the desired camera's view.

Once footage has been identified, operators with the proper permissions can archive footage from one or multiple cameras to be used for evidentiary purposes. Clips from multiple cameras are managed in the Export Manager, allowing operators to create playlists of multiple cameras, synchronize different cameras to allow for multicamera view of the same time period, and password protect the export media or add custom watermarking information for non-proprietary export formats. Additionally, operators can add commentary that is automatically saved to the export log, allowing those that view or use the exported footage to work more efficiently. The Pelco Export Player can authenticate the validity of video frames from Pelco IP cameras and encoders, and it can validate that the footage saved to the export media has not been tampered with prior to playback. A convenient video scrubbing and thumbnail view of the exported footage lets viewers navigate to the point of interest quickly and efficiently.

TECHNICAL SPECIFICATIONS

Fully Integrated Administration and Management

In addition to access to live and recorded video, the **WS5200** also serves as an administration and management console for the Endura system. With proper user credentials, administrative users can easily configure all devices and users on the system. Camera, encoder, recorder, and decoder hardware and software parameters can be accessed and managed from the administrative screens. Software patches and updates can easily be pushed out to select or multiple devices from the same console. User passwords, preferences, and credentials can be centrally managed from one **WS5200**.

All diagnostic messages from every component on the Endura network are available to any user and any viewing device. With proper credentials, administrators can easily configure all users and devices on the system. User actions and system messages are continuously logged and available for audit trail purposes.

Integrated Alarm Management Engine

The **WS5200** has a built-in alarm management engine. System alarms, motion, and video analytics alarms are displayed in a dedicated alarm workspace. As the alarm is generated, indicators display the type of alarm, the priority level of the alarm, and the current state of the alarm. Users can simply select the alarm and visually verify its cause before determining whether to acknowledge or snooze the alarm. Comments and instructions inserted by an administrator serve to provide more detail about the alarm or to instruct the operator about the next actions taken. Operators can also add their own comments to be logged with the associated alarm.

Extensible Architecture

The **WS5200** offers an optional interface to Endura Mapping. The mapping extension adds editing and map construction tools while providing for a convenient way to monitor the entire facility for alarms. Multiple layers can be turned on and off to provide access to key devices. In addition, multiple maps can be hyperlinked together to provide for easy navigation between map views.

As a fully integrated component of the **WS5200**, the mapping interface provides a convenient visual verification from a pop-up view. In addition to access to recorded and live video from the pop-up, operators can acknowledge or snooze the alarm, manually execute relays and scripts as a response to the alarm, capture a snapshot, or direct the associated camera onto the Endura monitor wall for further analysis and action.

TECHNICAL SPECIFICATIONS

MODELS

WS5200-1	Advanced System Management Software, 1-Seat License
WS5200-5	Advanced System Management Software, 5-Seat License
WS5200-10	Advanced System Management Software, 10-Seat License
WS5200-25	Advanced System Management Software, 25-Seat License
WS5200-SITE	Advanced System Management Software, Unlimited Seats; Single-Site License

OPTIONAL SOFTWARE ACCESSORIES

WS5200-MAP	Endura Mapping interface
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MINIMUM PC SPECIFICATIONS

Processor	Intel® Core™2 Quad, 2.66 GHz or better
Internal Memory	2 GB of RAM or higher
Operating System	Windows XP Professional SP3, 32-bit versions of Windows Vista Business SP1, or Windows Vista Ultimate SP1, or Windows Vista Enterprise SP2, Windows 7 SP1 32- or 64-bit
Video System	Graphics card with DirectX 9.x or later, 256 MB of dedicated RAM
Network	1000 Mbps network port

VIDEO

Video Codecs Supported	MPEG-4 ASP; H.264 baseline, main, and high profiles
Decoding Performance	16X real-time MPEG-4 streams at 704 x 480; 12X real-time H.264 baseline profile streams at 704 x 480; 2X real-time H.264 baseline profile streams at 1080p
Screen Configurations	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)

AUDIO

Audio Codec	G.711 ADPCM
Audio Bit-Rate	64 kbps

NETWORK

Infrastructure	Access to network infrastructure in compliance with the Endura Network Design Guide specifications
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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)

NOTICE: Judgment as to the suitability of the products for users' purposes is solely the users' responsibility. Users should refer to the Operation manuals for cautionary statements regarding user selected options and how they might affect video quality. Users shall determine the suitability of the products for their own intended application, picture rate and picture quality. In the event users intend to use the video for evidentiary purposes in a judicial proceeding or otherwise, users should consult with their attorney regarding any particular requirements for such use.

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