

Open-Platform Video Management Software

Prism[™] Video Management System

Overview

Lenel's Prism is an open IP video management system (VMS) based on an advanced, intuitive and operator-friendly user interface. Offered in three configurations (standard, professional, and enterprise), and available as a standalone VMS or integrated with OnGuard®, Prism has the scalability, flexibility and reliability to meet your organization's evolving video surveillance needs.

Built using the latest IT and video surveillance industry standards, Prism integrates seamlessly with OnGuard for event-driven monitoring, offering a single point-of-device configuration, event/alarm monitoring & system administration in an integrated video/access deployment. Prism uses the Lenel® NVR as it's primary recording engine for deployment on commercial off-the-shelf hardware or optimized and benchmarked turnkey hardware solutions. The combination of OnGuard, Prism and Lenel NVR deliver the industry's leading integrated video/access solution. The feature-rich set of tools that maximizes the use of the video workspace, combined with integration with OnGuard, results in fast, high-quality user decisions, reduced training costs, and more efficient use of personnel.

The release of Prism enables a low TCO (Total Cost of Ownership) video solution. The tiered pricing ensures a cost-effective entry point for those with small and less-complex environments, with simple incremental upgrades as their system size grows. Another tiered pricing upgrade permits integration with OnGuard to deliver a fully-featured integrated experience. Base system licensing covers unlimited use of client and Lenel NVR recorder software. Camera channel licensing applies to overall system capacities, rather than being tied to specific individual cameras. Existing OnGuard Video Manager Software Upgrade & Support Plans (SUSPs) also apply to Prism without any additional costs. Customers will also continue to have a single source of knowledgeable tech support for access control and video from Lenel.









FEATURES

- Open platform for full interoperability/integration
- Video-centric user experience, intuitive UI
- Mixed live & recorded viewing
- Fly-in menus and overlays to optimize space
- Intuitive use of video sequences & timelines
- · Advanced forensics tools for investigations
- Highly scalable server architecture
- Single system view of all resources
- High performance event/alarm brokering
- Multiple recording options (high availability and value)
- Extensive support for mixed analog & IP environments
- Integrated video alarm panel





Operator View Features

- Map- & tree-based navigation
- · Integrated video alarm panel
- Dynamic timebar
- User definable layouts, sequences & salvos
- Onscreen PTZ and digital zoom controls
- Tile-swap
- Tile maximize & restore with video preview of other tiles
- Tile pop-out
- Layout tear-out
- Navigation & alarm panel tear-out, auto-hide
- Pre/post event loop display
- Snap-shots
- Local recording
- Hot tiles
- Operator-to-operator video routing
- Synchronized recorded playback with live view

Advanced Forensics Tools

Prism simplifies the process of reviewing recorded video with advanced forensics tools:

- Evidence Locker[™] to consolidate multiple data sources for managing and reporting incidents
- \bullet Event Storyboard $^{\text{TM}}$ to map out an incident sequentially
- Filmstrip[™] mode for time- and event-based browsing of recorded video
- Post-recording motion search



Recorded Viewing Features

- Multiple recorded viewing and investigation tools
- Recorded video and audio playback
- Simplified video search dialog with query save/edit features
- Independent and synchronized playback of search/query results
- Event browsing with storyboard mode
- Time browsing with filmstrip mode
- Post-recording video motion search
- Evidence locker for snapshots, video clips and user commentary with workflow review
- Video segment track locking
- Video snapshot and video segment local recording
- Snapshot and video export in evidentiary and open video formats

Recorder Options



Prism is tightly integrated with the recently re-factored and modernized Lenel NVR, adopting industry-standard RTP/RTSP transport protocols resulting in high-performance video storage and retrieval. This combination meets your needs whether you prefer to purchase your storage as a software-only package for deployment on COTS server hardware or as benchmarked and optimized hardware-based turnkey solution. Through Lenel NVR, Prism can view and configure hundreds of different models of third-party and Interlogix cameras.

UltraView recorder family running VOS 4.4

Prism also supports VOS 4.4-based storage devices from the UltraView family, which gives many legacy Visiowave/UltraView customers the option to migrate from Video Security Center (VSC) to Prism. In this scenario, replacement or expansion storage could be Lenel NVR-based recorders which would allow Prism video viewing from a mixed VOS/Lenel NVR environment.



Prism System Requirements

Client requirements

- Intel® Core 2™ Quad
- Minimum 2GB of RAM (4GB, recommended)
- (S)ATA hard drive(s)
- XGA or higher video card PCI-Express, with OpenGL hardware acceleration support, minimum 256 MB RAM
- 1024x768 or higher screen resolution
- 10/100/1000 Ethernet Network Interface Card
- CD-ROM drive
- Windows 7 Professional or Ultimate (32 or 64 bit)

Server requirements

- Intel® Xeon® (Dual Core or better, recommended)
- 2 GB RAM (4GB, recommended)
- 250GB HDD
- XGA or higher video card
- 1024x768 or higher screen resolution
- 10/100/1000 Ethernet Network Interface Card
- CD-ROM drive
- Microsoft® Windows® Server 2008 (32 or 64 bit)

Base System Descriptions

	Standard	Professional	Enterprise
Target Customer	Entry-level	Ideal for mid-to-large installations in a campus environment	Designed for mid-to-large installations in distributed environments
Includes	All of the Prism functionality, but with a maximum limit of 32 video channels	1 Prism management server Unlimited use of the LNVR recorder software Unlimited use of the client software Note: no video channel license limit	Multiple Prism management servers can be deployed. These servers will work together in a federated state to provide a single system view of the environment under surveillance. Unlimited use of the LNVR recorder software Unlimited use of the client software Note: no video channel license limit
Video Channels	Purchased Separately	Purchased Separately	Purchased Separately
OnGuard Integration	No (but can be upgraded to Professional or Enterprise Tier products)	Yes	Yes
Upgrade options	Professional	Enterprise	-

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Lenel NVR7

Bridge to Your Video Future

The Lenel Network Video Recorder (Lenel NVR) 7.0 provides a shared software technology platform that serves as the foundation for the next generation of Lenel's advanced video management solutions.

Available as either a benchmarked and optimized hardware-based turnkey solution, or a software-only package for deployment on COTS server hardware, Lenel NVR7 provides a number of enhancements for Lenel video customers:

- Reliable Storage & Instant Retrieval
- Fundamental building block of the next-generation Lenel Security Platform (LSP)
- Fully compliant RTP/RTSP client/server implementation
- Streaming video performance/stability improvements
- Proven recorder technology, updated
- Streamlined camera integration

Quick & Efficient Video Retrieval:

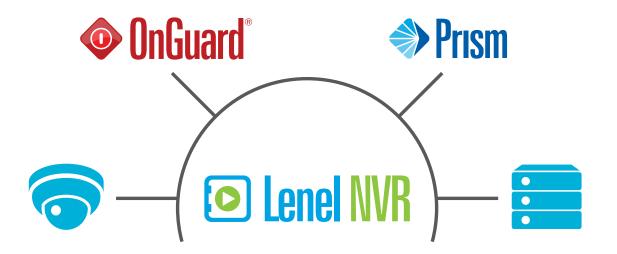
- Restructured video index
- Optimized for MJPEG, MPEG-4 and H.264 devices
- Bandwidth throttling to preserve bandwidth and efficiently utilize storage
- Event-based recording configurations
- Supports in-camera storage
- Dual-path failover/redundant recording
- Supports inputs/outputs on camera
- Performance monitoring
- Password protection

Performance Improvements:

- Supports virtual environments
- Reduces installation time, no need to install database
- Robust logging enhances problem resolution









Feature-rich Lenel NVR7 provides an array of technology advantages:

Lenel NVR7 better supports our customers by increasing focus on video-related features, functionality and technology. By extracting the Lenel NVR code out of OnGuard, Lenel has been able to completely refactor and modernize the code to adopt industry-standard RTP/RTSP transport protocols resulting in significant performance improvements in video storage and retrieval.

Unified Technology Platform

For years, Lenel NVR has operated as the reliable video recording engine for OnGuard customers. Now, with the availability of Lenel NVR7, Lenel has extended the NVR's capabilities by creating a shared software technology platform that continues to support the streaming video needs of OnGuard Video Manager and also serves as the foundation for the next generation of Lenel's advanced video management solutions.

OnGuard Integration

Seamless integration into OnGuard remains a key design principle for the Lenel NVR. Investment in Lenel NVR as a core technology platform demonstrates Lenel's intense strategic focus on growing its video offerings while maintaining best-inclass integrated solutions.

Camera Integration

With Lenel NVR7, Lenel has doubled the number of supported cameras to > 300 individual models. Lenel NVR 7.0 hosts an additional 150+ camera models in the core platform than are currently supported by Lenel NVR 6.4.500. Note: Many of these cameras have been made available to Lenel NVR 6.4.500 via add-ons, available separately for download, as driver packs from the Lenel website.

The Power of Choice with Lenel NVR7

Lenel NVR7 delivers the ultimate in flexibility, empowering customers with the freedom to choose the hardware and software solutions that best suit their unique security environments. Lenel is committed to providing the industry-leading portfolio of video options to our customers, leveraging integration to provide an ecosystem of choice, allowing our customers to better define how they manage, monitor and maintain their video surveillance systems.

Available as software only, or in the following benchmarked turnkey configurations*



DVC-IU Chassis Indoor only, limited space locations



DVC-LP Chassis Low profile chassis for limited rack space and low to moderate storage needs



DVC-LP2 Chassis Low profile chassis for limited rack space, offboard storage only



DVC-ST Chassis Standard storage chassis for low to moderate storage needs



DVC-SE Chassis Standard Extended storage chassis for moderate to high storage needs



DVC-EX ChassisExtended storage chassis for moderate to high storage needs



DVC-HD Chassis High-Density storage chassis for extremely high storage needs

*See Lenel NVR7 Technical Specification for additional information.

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Overview

SkyPoint 3.5 represents the latest evolution of open IP-based video management systems (VMS) for streaming, recording and managing an unlimited number of cameras at multiple sites. This newest version of SkyPoint provides increased functionality to organizations from mid-sized to enterprise levels, including alerting and video analysis features that until today were limited to enterprise-scale solutions. Users of all sizes and types are now able to boost the productivity of their entire security system with SkyPoint 3.5, resulting in better security and lower cost of operation.

Tailored to Fit the Needs of Your Organization

Offered in two versions, SkyPoint 3.5 is designed to meet the needs of mid-size and larger organizations, such as schools, multiple-site, complex municipal and campus installations. Both SkyPoint 3.5 versions are offered in single-camera increments, allowing for unlimited future expansion.

SkyPoint 3.5 allows for multi-server, multi-site operation, employing multiple tools for video intelligence and automation.

SkyPoint CS - For single location and large distributed organizations with extended command and control needs. SkyPoint CS supports VideoWall and OpenSight add-ons, allowing the control of video walls at multiple command and control centers, and incorporating camera streams from other SkyPoint installations.

SkyPoint EV - SkyPoint EV brings a higher level of efficiency to recording system maintenance. Intended for very large and complex multi-site installations, it incorporates a central video recording system management utility, which eliminates much of the complexity of managing many hundreds or thousands of cameras at multiple sites.

Integration and Intelligence

SkyPoint is the smart choice for any organization's IP video and security. With SkyPoint 3.5, users that otherwise would have had to compromise on features and opt for a DVR or a limited-feature system will now get to experience a simple and efficient interface for live monitoring and event handling, using a comprehensive set of forensics and evidence export tools.

By incorporating multiple video intelligence and automation tools, SkyPoint 3.5 significantly increases the productivity of the entire security operation. As a result, fewer operators are required to manage increasingly larger camera arrays, reducing operating costs and maximizing return on investment.

Open Architecture, Open Choices

Lenel's commitment to an open-architecture, non-proprietary solution platform supports virtually any IP camera and/or encoder on the market, allows for the utilization of off the shelf hardware, and facilitates the integration of new technologies.





Performance enhancements for large implementations

From an all-new set of recorder modules to multiple user and event management enhancements, SkyPoint 3.5 increases the efficiency and productivity of implementations running hundreds and thousands of cameras and detectors.

The New SkyPoint Client

Dozens of enhancements in the new client allow users to receive alerts and handle events faster and more efficiently, including instant camera-offline notification and controls for recording and PTZ patrolling. Operators are now also able to customize the interface to suit their needs and preferences with keyboard shortcuts to controls, cameras and presets, on-the-fly carousel setup and much more.

Single Management Application

SkyPoint 3.5's redesigned recorder management application eliminates the need for separate configuration utilities for different video management functions. Now featuring live video previews, the new management application employs multiple wizards and one-step configuration for camera, event and user batch operations.

SkyPoint™, Lenel's intelligent IP video surveillance management platform, represents a quantum leap in video detection, analysis, delivery and response.

SkyPoint 3.5 Features	CS	EV		
Single-camera increment licensing				
Scalable for unlimited number of cameras				
Unlimited number of servers at multiple sites				
Bundled with SkyPoint Client (unlimited installs)				
Concurrent video client connections	Unlimited	Unlimited		
Instant Investigation during live monitoring				
Support for hundreds of camera models				
Centralized user rights management				
Advanced video investigation tools				
Video evidence export				
Map navigation with active camera previews				
3rd-party integration compatible				
Shared event and alerting management				
On-event automated push-video alerting				
Network storage archiving				
CaseMaker (enhanced bookmarking)				
OpenSight-compatible (as viewer system)				
Control room video-wall management				
Multicasting capabilities				
Central recording server management •				
Multistage archiving and grooming				

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SkyPoint 3.5 CS

An IP-video surveillance and security platform, the SkyPoint 3.5 CS version was designed for large distributed organizations with extended command and control needs. Version 3.5 of the SkyPoint Platform introduces a range of features focused on simplified system administration, in addition to many enhancements to day-to-day operation. This includes automated camera licensing, a revamped user-privileges scheme, and new recorder components for all SkyPoint feature sets.

Open-Architecture, Non-Proprietary Technology

SkyPoint runs on off-the-shelf PC hardware; and supports all leading manufacturers' cameras and devices (over 900 models) as well as all industry standard compression formats (MPEG4, MJPEG, H.263 and H.264).

Highly Intuitive Unified Video Client

SkyPoint Client offers a user-friendly operator interface, for both desktop and control room videowall environments, with only minutes of training required for full proficiency.

Complete Video Wall management

Utilizing SkyPoint Client's map-based navigation, the SkyPoint VideoWall addon allows sending cameras and camera groups to any remote or local monitor, eliminating the need for any video matrix hardware.

Live Monitoring with Instantaneous Investigation

While monitoring live video feeds, users can perform basic investigation on individual cameras – playback, digital PTZ and optical PTZ (for PTZ cameras) - without the need to switch to a dedicated investigation mode.

Multiple Investigation Tools

SkyPoint Client's investigation tools, include the Kinetic Motion Timeline, multiparameter motion detection, the Time Slicer and the Motion Slicer, as well as the optional Video Content Analytics add-on.

OpenSight

An add-on to SkyPoint that lets users consolidate and share information from video surveillance and other security systems that are outside their own system.



Instant investigation during live monitoring
Full interaction with camera, including playback controls,
optical, and digital PTZ



Auto-generated time interval thumbnails for instant access to events



Time slicer and kinetic motion timeline
Access, investigate and export video of any incident
within seconds



SkyPoint™ 3.5 CS



Live monitoring – virtual joystick within interactive camera carousel



Easy access to recorded video of incidents by time/



Optical PTZ during live monitoring, with instant access to PTZ presets



Full interaction with camera including playback controls, optical and digital PTZ



PTZ-enabled handheld IP video clients/controllers

Both versions of SkyPoint 3.5 allow for multi-server, multi-site operation, employing multiple tools for video intelligence and automation:

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New features in SkyPoint 3.5:

Improved Privacy Mask Support

New User Permission Scheme

Batch camera configuration

Better support for multistream cameras

HTTPS stream support

New to SkyPoint CS

More flexible VMS configuration

Event triggered & scheduled archiving

New to SkyPoint EV

A 64-bit installation option

A new system monitor utility

Improved edge device management





SkyPoint 3.5 EV

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Centralized Recording System Management

SkyPoint EV provides centralized system management that dramatically reduces the complexity of managing edge devices, hardware, networking and user rights. All recording servers, redundant recording servers, cameras and connected devices, are managed from a single administration application, including configuration of entire device groups connected to multiple recorders, without the need to access each recording server individually.

Flexible rule-based management

Camera definitions, output actions and storage locations can dynamically adjust based on schedule (multiple time profiles) or on-event via an MS Outlook-style administration interface. Also enabled is simultaneous Rule Validation for detecting faulty or contradicting rules.

Multi-stage archiving

SkyPoint EV allows for multiple archiving stages to optimize storage utilization. Each stage can be assigned a different retention time, grooming (reduction of framerate to reduce volume) and location.

Full automatic failover capability

Single or multiple failover servers can be configured to automatically activate in the event of a recording server failure, with no gap or data loss.

Support for Multicasting

SkyPoint EV multicasting enables sending a single video stream to multiple users, while optimizing server load and bandwidth.

Support for edge (on-camera) storage

Cameras with on-board storage capabilities can function as failover devices to ensure uninterrupted video recording in the event of network or server failure.

Flexible storage allocation

Unlimited storage can be assigned to any connected device, at any storage location.



Instant investigation during live monitoringFull interaction with camera, including playback controls, optical, and digital PTZ



Auto-generated time interval thumbnails for instant access to events



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Access, investigate and export video of any incident
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SkyPoint™ 3.5 EV



Live monitoring – virtual joystick within interactive camera carousel



Easy access to recorded video of incidents by time/ date



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A new system monitor utility

Improved edge device management





Integrated Security Management Software

VideoManager

Overview

OnGuard VideoManager is the most flexible and dynamic video system available today. With enormous 3,000+ channel installations operating around the world, OnGuard VideoManager offers customers the scalability to take small and simple video needs to large and sophisticated enterprise video. OnGuard VideoManager is seamlessly integrated with OnGuard, offering customers the many benefits of applications inside the OnGuard portfolio, including OnGuard Access and OnGuard Fire & Intrusion. By integrating with OnGuard, customers can realize a true, event-driven system architecture whereby actionable security is enabled by linking real, live security-related events. Event video can be monitored in several ways. For those organizations with sophisticated monitoring needs, OnGuard IntelligentVideo offers an array of algorithms and packaged solutions for everyday security challenges such as loitering, objects entering an area or object leaving an area. For those customers who want to use OnGuard IntelligentVideo in forensic investigative mode, there is no additional charge. All angles are covered with OnGuard VideoManager.

Configuration

OnGuard VideoManager's powerful configuration options enable administrators to design simple and straightforward systems, or expansive and sophisticated solutions tailored to their specific needs. Camera resolution support ranges from basic QVGA (320 x 240) to 10 Megapixel (3648 x 2752 DVD quality). An array of frame rates are available, and are dependent on video capture modules with both MPEG-4 and MJPEG compressions. OnGuard VideoManager also offers several recording, extended storage and monitoring options. Customers can record in continuous, time-lapse, event-driven or synchronized audio and video modes, and store that video on industry-standard, off-the-shelf hardware, including Direct Attached Storage (DAS), Network Attached Storage (NAS) and Storage Area Networks (SAN.) Once video is set up, it's time to monitor it. OnGuard VideoManager offers several

SUPPORT

Multiple Frame Rates:

• Up to 60, depending on recorder device

Compression:

- MPEG-4
- MJPEG
- H.264

Recording Options:

- Analog video input
- Network video input
- Continuous
- Time-lapse
- Event-driven
- Key Frame Only
- Synchronized audio & video

Extended Storage Options:

- Direct-Attached Storage (DAS)
- Network Attached Storage (NAS)
- Storage Area Network (SAN)

Monitoring Options:

- Integrated monitoring
- VideoViewer/Web-based VideoViewer
- Remote monitor
- Barco display integration
- Joystick Control
- Analog Video Output
- Virtual Matrix

Camera Brand Support:

 Axis, Lenel, Panasonic, Sony, JVC, IQInvision, Lumeneva, Arecont Vision, Baxall, Toshiba

Lenel NVR supported under VMware ESXi

EVENT OPTIONS

- PTZ on event
- Auto-launch on event
- Record on event
- Monitor events
- Investigate events
- Archive event video







options for viewing, including through OnGuard Alarm Monitoring, OnGuard VideoViewer, OnGuard Remote Monitor and a Barco digital display wall. OnGuard VideoManager lets you build your video system with our software.

Event-Driven Solution

For every aspect of a video system, alarm event conditions drive the solution. PTZ on event. Auto-launch on event. Record on event. Monitor events. Investigate events. Archive event video. OnGuard VideoManager is the event-driven solution.

Monitoring

OnGuard leads the industry with the most robust monitoring application available. OnGuard Alarm Monitoring communicates the status of video recorders and network cameras, illustrates alarm location with the use of multimedia graphical maps, and enables operators with in-view PTZ control, auto-launch of video on alarm and individual camera touring and layout touring.. OnGuard also offers users a variety of monitoring interfaces, from the Remote Monitor to the Barco video wall. No matter what the monitoring requirement is, OnGuard has an interface to match.

Investigation

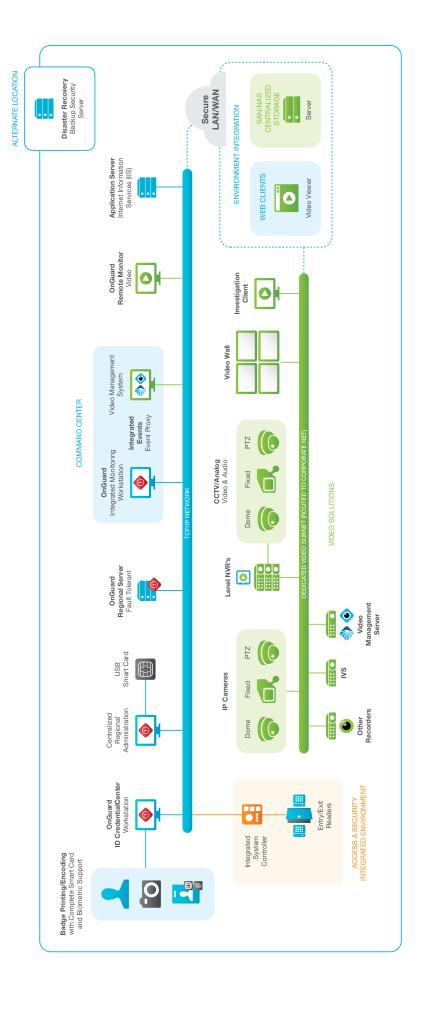
Investigations are central to every security program. OnGuard VideoManager has several tools available that are critical to enabling successful investigations. Video event locking allows users to select which alarm event types automatically archive related video recordings. Centralized archiving allows administrators to ensure that event video is locked and archived in the case of late security event realization. Traces allow customers to select a specific badge or alarm point, and poll for all video associated with the badge's use, or activity at the alarm point. Security evidence clips are available to be exported in industry standard formats, for use in the Lenel Video Player or standard media players such as Windows Media Player.

Management

OnGuard VideoManager offers customers a simple system management experience. OnGuard System Administration allows the customer to set up new video inputs, configure OnGuard IntelligentVideo, deploy an archiving strategy, adjust video tours, scale user permissions, and much more. For customers already using OnGuard, expanding with OnGuard VideoManager is simple and smooth. This enables users to perform video management on a low learning curve.

Analytics

Research has proven that even an efficient monitoring staff has a decrease in focus after just one hour of video viewing. Often, situations that should be detected are not, presenting security with a reaction scenario. Short of having full time, highly focused monitoring, video intelligence is a viable option for any customer. By having the system provide more support, security managers and operators can focus on the security of people, information and assets. OnGuard IntelligentVideo offers security conscious organizations the opportunity to configure viewing areas to capture alarms in real time, or to forensically search recorded video post-event. Some situations, such as loitering, may present an immediately acknowledgeable threat to security, while a briefcase being taken usually will reveal itself after the fact. In live scenarios, events go directly to OnGuard Alarm Monitoring and can be brought to the attention of security. In forensic scenarios, security can identify activity that was indicative of a security event in question, such as an object crossing a line showing a person entering a sensitive area containing information, or an object removed, which highlights items such as a briefcase or laptop that was taken from a scene. OnGuard IntelligentVideo offers a multitude of tools for addressing security needs using the existing video infrastructure.



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