ABOUT LENSEC

Founded in 1998, LENSEC is a pioneer in IP security video. We are a trusted security partner with experience around the world. LENSEC is experienced helping partners working with customers in various markets, including higher education, K-12 education, public safety, government, healthcare, critical infrastructure, commercial, and more. LENSEC physical security experts help VAR partners and their customers develop enterprise solutions for complex physical security projects using our flagship software, Perspective VMS®.

LENSEC manufactures enterprise-level video management software (VMS) designed for surveillance. Perspective VMS® is a browser-based software that streams and captures IP security camera video and manages IP security devices. PVMS uses HTML5 interactive features in a thin-client application that is designed to provide real-time situational awareness.

Fleet Management, Access Control, Video Analytics, and other advanced features integrate well into Perspective VMS®, creating an ability to track behavior and movement while monitoring live and recorded video.
Maps provide real-time situational awareness and visual familiarity of the site or entire enterprise. The main feature is the ability to interact with IP cameras or devices and identify their locations from the dynamic map interface.

**FEATURES**

**GLOBAL SEARCH**
Users can quickly find and retrieve maps, cameras, tags, or other metadata.

**SITUATIONAL AWARENESS**
Map-viewing, with cameras marked, enhances situational awareness for first responders and new users on the system.

**CAMERA DOCK**
Users can drag-and-drop cameras from any map into the dock for a heads-up view. This is perfect for situational awareness.

**MULTI-LEVEL MAPS**
Map-nesting and layers provide the ability to navigate multiple floors or site locations.

**MAP LAYERS**
Users can quickly show or hide logically-grouped elements on maps for focused viewing.

**CAMERA HOVER**
Users may hover over a camera icon on the map display to pop-up live video from the map page, enhancing awareness.
Camera Viewer provides live video monitoring with customizable display settings, featuring multi-view presets, PTZ controls, and live recording. Users may create sequences of multiple camera views and view arrangements.

FEATURES

**DYNAMIC RESOLUTION**
Video auto-adjusts to an appropriate size, optimizing the video stream.

**INSTANT PLAYBACK**
Users can rewind and playback recorded video without leaving the camera viewer, and continue playing simultaneous live video.

**DYNAMIC PTZ CONTROL**
Users may actively pan, tilt, or zoom PTZ cameras from the PVMS interface using software controls.

**NEIGHBORING CAMERAS**
Activity may be tracked from camera to camera through a site when monitoring video.

**MULTI-VIEW MONITOR**
Users may choose from multiple camera view layouts and call up live video from multiple sites within the same viewing window.

**EASY NAVIGATION**
Users gain full-access to most navigational Perspective VMS® features from the camera viewer.
ARCHIVES

Archives are designed to manage recorded video and provide tools for playback, navigation, and forensic analysis. Archive extraction creates a standard media file to be downloaded for playback.

FEATURES

DYNAMIC TIMELINE
The navigable timeline enables thumbnail review of playable video.

FAST-FIND SEARCH
In Archives, motion video from the recorded video is searchable, with Fast-Find identifying movement in a user-defined area.

ARCHIVE LOCKING
Administrators may lockdown important segments of video to prevent deletion from the archives.

MULTIPLE EXTRACTIONS
Users may extract video from multiple camera feeds simultaneously.

TIME-LAPSE VIDEO
Users can create time-lapse videos by capturing incremental frames per hour in a playable video extraction.

REAL-TIME EXTRACTION
Users can create a recording for download with the click of a button when viewing live or recorded video.
Security Management is moving beyond stationary buildings and closed sites. In today’s changing security environment, everyone has security challenges for transportation. PVMS Fleet Security Management is here to help.

**FEATURES**

**GIS MAPPING**
GIS-mapping for vehicle locations can be associated with archive recordings, marking bus locations as part of the logged metadata.

**VEHICLE SENSOR I/O**
Vehicle Sensor I/O Integration captures activity from equipment, such as blinkers, brakes, bus stop arms, speed, etc.

**RUGGED HARDWARE**
LENSEC endorses rugged hardware including cameras, IP devices, and on-board servers to withstand extreme conditions.

**BUILT-IN WI-FI**
Built-in Wi-Fi enables offload of video to central system archives when the vehicle returns to base.

**BUILT-IN CELLULAR**
Built-in Cellular Communication equips users with the ability to monitor live or recorded video from vehicles while in the field.

**UNIFIED SECURITY PLATFORM**
A Unified Security Platform in PVMS enterprise security software enables fleet security and infrastructure security to be managed centrally.
REPORTS

Reports provide useful information including system health status, camera status, and user login activity. Admins can launch filtered or configurable reports that show system info, user audit trails, and export those reports in several common formats.

FEATURES

ACTION REPORTS
Acknowledge Response Reports for event response provides historical information.

AUDIT REPORTS
Audit Reports display tracking information on user activities in Perspective VMS®. All user activity is logged for later review.

CONFIGURATION REPORTS
PVMS Configuration Reports make system data easily accessible, including group permissions and camera details.

EQUIPMENT STATUS REPORTS
Detailed equipment info and real-time status reports of cameras and servers is available.

ACCOUNT REPORTS
Reports on user accounts include group assignments, last login details, and status of their account are accessible in PVMS.

ANALYTICS & WORKFLOW REPORTS
Video Analytics and Workflow Reports provide useful data about behavior and actions/events in PVMS, including associated users and history.
ADMIN TOOLS

Administration provides an intuitive interface for managing and configuring groups, users, devices, and system parameters. These Administrative tasks happen in the web browser via a secure login while connected to the network.

FEATURES

DYNAMIC PERMISSIONS
Administrators can assign specific permissions for various types of users and groups.

ACTIVE DIRECTORY
PVMS supports migration and configuration of groups and users imported from Active Directory.

CAMERA STATUS
Administrators can discover current camera status and generate reports.

CAMERA DISCOVERY
System Admins can find and add ONVIF cameras from the network.

ARCHIVE STORES
Administrators may dynamically configure archived video across one or more storage drives, providing a balanced storage structure.

MOST CAMERA MODELS SUPPORTED
PVMS offers native integration with most modern camera models.
TRAINING

Perspective VMS® Training and video tutorials are essential to our staff and partners. We strive to provide sales and technical classes for partners & end-user training for customers.

FEATURES

ONLINE TRAINING ACADEMY
LENSEC offers free online training for partners and end-users covering basic and advanced info.

TECHNICAL CERTIFICATION
Multiple technicians need to know installation techniques and best practices for PVMS.

SALES TRAINING
LENSEC training staff will teach your sales reps the features and selling techniques they need to be successful in selling PVMS.

END-USER TRAINING
End-user training is available, providing partner staff with support from LENSEC team members on software use and configuration.

ONLINE VIDEO TUTORIALS
- System Layout
- User Preferences
- Editing Custom Maps
- Custom Map Layers
- Fleet Management
- Camera Arrangements
- Image Capture
- Video Extraction
- Video Tagging
- Administration
- Action Panel
- Installation
- And More
Workflows leverage “If-This-Then-That” logic, enabling users to integrate physical and logical inputs into on-screen display actions or other notification alerts through associating objects, triggers, and actions.

For example, facial recognition can trigger access through an access control entry point, or a license plate camera with ALPR can read a vehicle plate and open a parking barrier arm to allow vehicle access.
System Health offers alerts and reports on servers, applications, and Perspective VMS® services. Applications and reports help identify system faults.

FEATURES

ARCHIVE STATISTICS
Perspective VMS® generates a report showing statistical archiving trends.

AUDIT TRAIL
The system provides an internal auditing report regarding user operation actions.

IN-SYSTEM ALERTS
System health notifications alert users in real-time about networked servers, cameras, and IP-devices.

EMAIL NOTIFICATIONS
Email notifications may be created to be delivered automatically.

REMOTE STATUS MONITORING
Remote Status Monitoring is a professional service option by LENSEC Customer Service, providing proactive monitoring of camera and server status. Remote diagnosis and offsite remedies for repair are attempted, ensuring systems remain operational.
INTEGRATION

Integration of Perspective VMS® with other security software and hardware extends the capabilities of managing the entire security enterprise. When functions of the security components are unified in one surveillance platform, the system is easier for the user to manage.

FEATURES

ACCESS CONTROL
Perspective VMS® integrates with several access control solutions, including tight bidirectional integration with key technology partners. As seen in the image above, access control triggers are available in Perspective VMS®, providing user function of lock and pulse features. PVMS catalogs events, associates surveillance video, and provides door control within the unified security platform.

SECURITY INTEGRATION

- 3rd Party Software & Hardware
- Complete Video Analytics Suite
- Megapixel Security Cameras
- Radio Frequency Identification
- Intrusion Detection
- Integrated Barriers
- Drone Integration
- Security Fences
- Fleet Management
- Student Campus Card Integration
- Visitor Management
- Attendance Systems
- Secure Ops Center Video Wall
- Automatic License Plate Recognition
- Facial Recognition
- System Health Monitoring
- Workflows: If-This-Then-That Logic
- Biometric Entrance/Exit
- Cloud-Ready
- Custom Software Development
- Video Watermarking
- Hardware Agnostic Software
VIDEO ANALYTICS

Video Analytics use smart algorithms for effective decision-making. They generate smart alerts to trigger actions and reduce false alarms.

FEATURES

ALPR
Automatic License Plate Recognition captures images of vehicle plates and compares info against a database.

FACIAL RECOGNITION
Using biometrics, Facial Recognition enables the ability to detect and identify faces catalogued in a database.

INTRUSION
The Intrusion analytic detects and signals when defined objects cross a virtual line in a certain direction.

MORE ANALYTICS

- Gate Flow
- Area Counting
- Occupancy Rate
- Hot Zones
- Loitering
- Left Object
- Stolen Object
- ATM Detection
- Wrong Way
- Stationary Vehicle Counting
- Face Detection
- Slip & Fall
- Vehicle Speed
**Why Consider LENSEC + Perspective VMS?**

**Here are a few good reasons:**

- Perspective VMS® is built with VAR partner and end-user input, enhancing user functionality.
- Designed using open-architecture, PVMS is ready for any IP security devices.
- PVMS is designed first as an enterprise solution.
- Perspective VMS® provides full-functionality on your smart phone or tablet.
- This thin-client, browser-based VMS is the first video management software designed exclusively as an HTML5 rich application.
- Perspective VMS® is ready for cloud deployment.
- Perspective VMS® is made in the USA and trusted around the world.
- LENSEC is an agile company, implementing developmental changes to software in a relatively brief time.
- LENSEC has history as an integrator, so we’ve learned the challenges and devised solutions that support our integration channel partners.

**PVMS is Purpose-Built**

- Security Video
- Access Control
- Global Search
- User Collaboration
- Cloud-Ready
- RFID Integrated
- Video Analytics
- Facial Recognition
- Intrusion Detection
- Integrated Barriers
- Drone Integration
- Security Fence
- Fleet Management
- Remote System Health
- Explosive Detection
- Visitor Management
- Biometric Entry/Exit
- LP Recognition
- Student Campus Card
- Custom Development
- Engineering Support
- SOC Video Wall
- Watermarking

**The Unified Security Platform**

**Made in USA**

**HTML5**

**Accredited Business**

**Certified Hardware**
## Perspective VMS® Features

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Number of Users</td>
<td>Unlimited</td>
<td>Unlimited</td>
<td>Unlimited</td>
<td>Unlimited</td>
<td>Unlimited</td>
<td>Unlimited</td>
</tr>
<tr>
<td>Maximum Number of Cameras</td>
<td>10</td>
<td>Unlimited</td>
<td>24</td>
<td>Unlimited</td>
<td>Unlimited</td>
<td>Unlimited</td>
</tr>
<tr>
<td>Global Search</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>HTML5 Browser-Based</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Dynamic Maps Integration</td>
<td>✓</td>
<td>-</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Intelligent Archive Management</td>
<td>✓</td>
<td>-</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Simultaneous Live / Archive View</td>
<td>✓</td>
<td>-</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Archive Video Extraction</td>
<td>✓</td>
<td>-</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>System Health Reports / Email Alerts</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Share View User Collaboration</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Neighboring Camera Associations</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Archive Locking</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>System Lockdown</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Time-Lapse Extractions</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>‘If-This-Then-That’ Workflow Logic</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Import External Video Sources</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Active Directory</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Fleet Security Management</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Live GIS-Mapping</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Access Control Integration</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>Add-On</td>
<td>✓</td>
</tr>
<tr>
<td>Video Analytics</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>Add-On</td>
<td>Add-On</td>
</tr>
<tr>
<td>Automatic License Plate Recognition</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>Add-On</td>
<td>Add-On</td>
</tr>
<tr>
<td>Facial Recognition</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>Add-On</td>
<td>Add-On</td>
</tr>
<tr>
<td>Third-Party Security Devices</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>Custom</td>
<td>Custom</td>
</tr>
</tbody>
</table>
NOTABLE REFERENCES

GOVERNMENT MARKET
LENSEC serves government agencies from military to healthcare, and everything in between.

<table>
<thead>
<tr>
<th>Agency</th>
<th>Region</th>
<th>Cameras</th>
</tr>
</thead>
<tbody>
<tr>
<td>National Health Agency</td>
<td>Saudi Arabia</td>
<td>12,000+</td>
</tr>
<tr>
<td>National Intelligence Agency</td>
<td>Saudi Arabia</td>
<td>2,500+</td>
</tr>
<tr>
<td>Military Education Institute</td>
<td>Saudi Arabia</td>
<td>1,400+</td>
</tr>
<tr>
<td>Holy Pilgrimage Sites</td>
<td>Saudi Arabia</td>
<td>1,100+</td>
</tr>
<tr>
<td>Government Passport Office</td>
<td>Saudi Arabia</td>
<td>600+</td>
</tr>
<tr>
<td>Medical Training Hospital</td>
<td>Saudi Arabia</td>
<td>600+</td>
</tr>
<tr>
<td>National Research Center</td>
<td>Saudi Arabia</td>
<td>500+</td>
</tr>
<tr>
<td>Labor &amp; Development Agency</td>
<td>Saudi Arabia</td>
<td>500+</td>
</tr>
<tr>
<td>Military Armed Forces Command</td>
<td>Jordan</td>
<td>500+</td>
</tr>
<tr>
<td>Geospatial Data Gathering Agency</td>
<td>Saudi Arabia</td>
<td>400+</td>
</tr>
<tr>
<td>State-Owned Hospital</td>
<td>Texas, USA</td>
<td>200+</td>
</tr>
<tr>
<td>City Municipality</td>
<td>Texas, USA</td>
<td>100+</td>
</tr>
<tr>
<td>Government Defense Agency</td>
<td>Saudi Arabia</td>
<td>100+</td>
</tr>
<tr>
<td>Government Tax Agency</td>
<td>Saudi Arabia</td>
<td>100+</td>
</tr>
<tr>
<td>Tourism Agency</td>
<td>Saudi Arabia</td>
<td>100+</td>
</tr>
<tr>
<td>County Radio Shop</td>
<td>Texas, USA</td>
<td>100+</td>
</tr>
<tr>
<td>National Security Agency</td>
<td>Saudi Arabia</td>
<td>100+</td>
</tr>
<tr>
<td>Public Airport</td>
<td>California, USA</td>
<td>100+</td>
</tr>
<tr>
<td>International Airport</td>
<td>Jordan</td>
<td>100+</td>
</tr>
<tr>
<td>State Health Agency</td>
<td>Arkansas, USA</td>
<td>100+</td>
</tr>
<tr>
<td>Government Banking Agency</td>
<td>Saudi Arabia</td>
<td>100+</td>
</tr>
<tr>
<td>Regional Development Authority</td>
<td>Saudi Arabia</td>
<td>100+</td>
</tr>
</tbody>
</table>

COMMERCIAL MARKET
LENSEC develops standard and unique security solutions for the commercial market.

<table>
<thead>
<tr>
<th>Company</th>
<th>Region</th>
<th>Cameras</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oil &amp; Gas Exploration Company</td>
<td>Multiple States, USA</td>
<td>500+</td>
</tr>
<tr>
<td>Commercial Office Tower</td>
<td>Kuwait</td>
<td>400+</td>
</tr>
<tr>
<td>Commercial Office Tower</td>
<td>Qatar</td>
<td>300+</td>
</tr>
<tr>
<td>Nationwide Car Rental Company</td>
<td>Saudi Arabia</td>
<td>300+</td>
</tr>
<tr>
<td>International Automation &amp; Security Company</td>
<td>Qatar</td>
<td>100+</td>
</tr>
</tbody>
</table>

EDUCATION MARKET
LENSEC has a long history with notable references in the education market - Higher Education and K-12 School Districts.

<table>
<thead>
<tr>
<th>School District</th>
<th>Region</th>
<th>Campuses</th>
<th>Cameras</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public K-12 School District</td>
<td>Maryland, USA</td>
<td>126</td>
<td>7,000+</td>
</tr>
<tr>
<td>Vocational Training Institute</td>
<td>Saudi Arabia</td>
<td>Multiple Branches</td>
<td>5,000+</td>
</tr>
<tr>
<td>Public K-12 School District</td>
<td>Texas, USA</td>
<td>School Bus Security</td>
<td>4,000+</td>
</tr>
<tr>
<td>Public K-12 School District</td>
<td>Texas, USA</td>
<td>30 Campuses</td>
<td>2,200+</td>
</tr>
<tr>
<td>Public Community College</td>
<td>Virginia, USA</td>
<td>10 Campuses</td>
<td>1,500+</td>
</tr>
<tr>
<td>Public University</td>
<td>Medina, Saudi Arabia</td>
<td>69,000 Students</td>
<td>1,400+</td>
</tr>
<tr>
<td>Public University</td>
<td>Ha’il, Saudi Arabia</td>
<td>3 Campuses</td>
<td>1,300+</td>
</tr>
<tr>
<td>Public Research University</td>
<td>Texas, USA</td>
<td>Statewide Campuses</td>
<td>1,000+</td>
</tr>
<tr>
<td>Private Research University</td>
<td>New York, USA</td>
<td>Ivy League Institution</td>
<td>800+</td>
</tr>
<tr>
<td>Public K-12 School District</td>
<td>Texas, USA</td>
<td>12 Campuses</td>
<td>800+</td>
</tr>
<tr>
<td>Public K-12 School District</td>
<td>Virginia, USA</td>
<td>29 Campuses</td>
<td>700+</td>
</tr>
<tr>
<td>Public K-12 School District</td>
<td>Texas, USA</td>
<td>4 Campuses</td>
<td>400+</td>
</tr>
<tr>
<td>Public K-12 School District</td>
<td>Montana, USA</td>
<td>5 Campuses</td>
<td>200+</td>
</tr>
<tr>
<td>Private University</td>
<td>Kansas &amp; Arizona, USA</td>
<td>5 Campuses</td>
<td>200+</td>
</tr>
<tr>
<td>Public K-12 School District</td>
<td>Arkansas, USA</td>
<td>5 Campuses</td>
<td>100+</td>
</tr>
<tr>
<td>Public K-12 School District</td>
<td>Texas, USA</td>
<td>11 Campuses</td>
<td>100+</td>
</tr>
<tr>
<td>Public University</td>
<td>Saudi Arabia</td>
<td>International Campuses</td>
<td>100+</td>
</tr>
<tr>
<td>Public K-12 School District</td>
<td>Texas, USA</td>
<td>18 Campuses</td>
<td>100+</td>
</tr>
<tr>
<td>Community College</td>
<td>Maryland, USA</td>
<td>20 Buildings</td>
<td>100+</td>
</tr>
<tr>
<td>Public K-12 School District</td>
<td>Texas, USA</td>
<td>20 Campuses</td>
<td>100+</td>
</tr>
<tr>
<td>Public K-12 School District</td>
<td>Georgia, USA</td>
<td>8 Campuses</td>
<td>100+</td>
</tr>
<tr>
<td>Public K-12 School District</td>
<td>Texas, USA</td>
<td>8 Campuses</td>
<td>100+</td>
</tr>
</tbody>
</table>

ADDITIONAL MARKETS

HEALTHCARE
OIL & GAS INDUSTRY
TRANSPORTATION
FLEET SECURITY MANAGEMENT
CRITICAL INFRASTRUCTURE
THE FUTURE IS CLEAR