

# PERSPECTIVE VMS

## UNIFIED VIDEO INTELLIGENCE FOR REAL-TIME SECURITY.

A PRODUCT BY **LENSEC**

### PERSPECTIVE VMS® V6.1

Perspective VMS is a video management software exclusively developed and manufactured by LENSEC as a feature-rich, yet easy-to-use security platform. PVMS implements monitoring and recording of IP-based surveillance camera video and data from IP security devices.

Perspective VMS uses HTML5 interactive features in a browser-based software designed to provide real-time situational awareness. Video analytics, access control, and several third-party security applications are integrated with PVMS, creating a unified security platform with an ability to track behavior and movement while automating processes for administrators and users.

## KEY FEATURES

- Unified Security Platform
- Real-Time Situational Awareness
- Customized Operator Dashboards
- Automated Workflow Processes
- Advanced Video Analytics
- Multi-Site Network Deployment
- Interlink for Federated Architecture
- Open Architecture Software
- Scalable for Small or Large Security Projects
- Easy-To-Use Graphical Interface
- Browser-Based Native Application
- Security Integration With 3rd-Party Software
- Multilingual User Interface
- Notification & System Health Status
- Multiple Failover Options for Servers and Archive Stores
- Forensic Search
- End-to-End Archive Encryption



## INDUSTRIES & MARKETS



Education



Commercial



Oil & Gas



Critical  
Infrastructure



Military



Government



Healthcare



Transportation



Retail



Financial

## USER AND ADMINISTRATOR MODULES



### Dashboard

View security events and system health in custom-made visual boards based on operational needs.



### Camera Viewer

Live and archive camera viewing in a wide range of viewing layouts. Your custom preset views and sequences can be saved and recalled in the graphical interface.



### Fleet

Capture vehicle video and metadata while managing the security of your fleet, cargo, drivers, and passengers.



### Administration

Configure and manage system-wide settings from anywhere on the network in the browser-based application.



### Maps

Quickly identify the location of cameras and devices. With the ability to interact with devices, view live stream and alarm notification in real-time.



### Archives

Begin forensic analysis, easily locate and playback archived video using the interactive timeline. Users can playback multi-cameras in synchronized mode.



### Forensic Search

Locate and investigate incidents with precision using advanced filtering tools. Search by people attributes, photos, names, and vehicle classifications to quickly find relevant video evidence.



### Reports

Gain insight on system health details, including camera status, user login activity, archive stores, and more.



### Training

Take free training, including online classes and technical certification. Instructor-led courses are held virtually and in person.

## OPEN PLATFORM

**Connectors:** developed by lensec engineers to provide integration with 3rd-party physical security systems, such as access control, alarm panels, video analytics, and more. Providing end-users, a single platform to monitor events and control devices from different security systems.

**Interoperability:** allowing 3rd party systems and developers to securely integrate with perspective vms

- **API/SDK:** provides access to system configurations and events through rest api.
- **Camera service:** acts as an intermediary layer providing a single point of connectivity between cameras and 3rd-party systems such as video analytics and building management systems for live and recorded streams.
- **Pass through login:** Provides third-party systems the ability to open Perspective VMS web application, as a new windows or embedded in an iframe.

## SOFTWARE EDITIONS

### **Express Edition**

Express is designed for small project with a limited scope in a single site deployment.

### **Standard Edition**

Standard is suitable for projects with a medium scope incorporating a few sites with centralized management.

### **Professional Edition**

Professional includes advanced features and is designed for larger projects with a need for security integration with 3rd party software.

### **Enterprise Edition**

Enterprise is the most advanced and feature rich edition. It adds many add-on features such as Active Directory, Forensic Search, GIS maps along with unlimited access control doors and video analytics.

## SYSTEM ARCHITECTURE

Perspective VMS supports multiple deployment modes including standalone and distributed, providing flexibility for security integrators and specialists to design the appropriate solution based on project needs. At its core, Perspective VMS is a web-based application accessible through modern web browsers from any device connected on a LAN/WAN/GAN.

## SYSTEM COMPONENTS



### Web Server

As a web-application Perspective VMS utilizes a web server to allow multiple clients to connect to one unified platform.



### Database Server

Leveraging Microsoft® SQL Server, the database server can be local or distributed on the end-user's network.



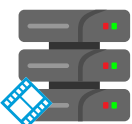
### Streaming Service

Responsible for handling cameras live and archive streams viewed in application.



### Camera Service

Responsible for providing camera live and archive streams through standard RTSP.



### Archiving Service

Responsible for archiving camera image and video streams and create system extractions.



### Administrative Service

Responsible for monitoring hard-drive utilization, checking available free space and active directory user synchronization.



### Health Monitor Service

Responsible for monitoring cameras health and ensuring the operability of system core services.



### External System Service

An intermediary communication agent between the system and 3rd party software/hardware applications.



### Event Engine Service

Aggregates metadata from cameras and external systems, organizing detailed insights about people, vehicles, and objects based on their attributes.



### SDK Service

Enables seamless real-time data sharing and communication with external systems, ensuring smooth integration across diverse platforms.

## PRODUCT FEATURES MATRIX

Feature Set	Express	Standard	Professional	Enterprise
Number of Users / Client Workstations	Unlimited	Unlimited	Unlimited	Unlimited
Number of Cameras	24	1,000	Unlimited	Unlimited
Number of Servers	1	10	Unlimited	Unlimited
Browser-based with Administration Module	✓	✓	✓	✓
Multi-Language Support	✓	✓	✓	✓
Global Search	✓	✓	✓	✓
Multi-view / Multi-Monitor	✓	✓	✓	✓
Mobile Device (Android, iOS)	✓	✓	✓	✓
Maps Integration with Live Viewing	✓	✓	✓	✓
Simultaneous Live / Archive Viewing	✓	✓	✓	✓
Configuration / Health / Analytics Reports	✓	✓	✓	✓
Open API	✓	✓	✓	✓
Video Tagging	-	✓	✓	✓
Virtual Machine Support	-	✓	✓	✓
Share View	-	✓	✓	✓
Neighboring Camera Associations	-	✓	✓	✓
Time-lapse Extractions	-	✓	✓	✓
Multisite / Interlink	Remote Site	Remote Site	Central & Remote Site	Central & Remote Site
Archive Locking	-	-	✓	✓
Archive Timeline Forensics	-	-	✓	✓
Video Importing	-	-	✓	✓
Advanced Workflow Logic	-	-	✓	✓
Embedded Camera Live Events	-	-	✓	✓
Archive Encryption	-	-	✓	✓
Dashboard – Basic	-	-	✓	✓
Dashboard – Full	-	-	-	✓
Linked Cameras	-	-	-	✓
Failover	-	-	Add-on	✓
Active Directory	-	-	Add-on	✓
Live Maps / GIS	-	-	Add-on	✓
Forensic Search	-	-	-	Add-on
Fleet Module	-	-	Add-on	Add-on
Access Control Integration	-	-	Add-on	Add-on
Video Analytics	-	-	Add-on	Add-on

## SYSTEM REQUIREMENTS

Perspective VMS operates using an HTML5 platform and is run as a thin-client through all widely used modern web browsers such as Google Chrome and Microsoft Edge.

For servers and client recommendations, LENSEC recommends Microsoft platforms including Windows Server (Versions 2022, 2019 and 2016), as well as Windows desktop versions of Windows 11 and 10 Professional 64-bit.

### Client Minimum Hardware Requirements

#### Client Hardware

**Processor:** 2.4 GHz (x64 Processor) or 1.3 GHz (Dual Core)

**Memory:** Minimum 8 GB RAM

**Available Disk Space:** Minimum 10 GB

**Display:** SXGA (1280 x 1024) or higher resolution

#### Client Hardware

**Client OS:** Windows 10 or 11

**Client OS:** Mac OS X or above

**Browser:** Google Chrome and Microsoft Edge

**\*NOTE:** Specifications may vary based on anticipated video streaming requirements per installation.

### Server Minimum Hardware Requirements

#### Web Server And Archive/Streaming Server

##### Server Hardware

**Processor:** 2.4GHz, 4C/8T (x64 Processor)

**Memory:** Minimum 16 GB RAM

**Available Disk Space:** Minimum 8 TB

**OS Partition:** Minimum 1 x 500 GB SSD

**Network Interface Controller:** Minimum 1 GB

##### Server Software

**Server OS:** Windows 10/11 Pro or above; Windows 2016 Server or above

**Web Server:** Internet Information Services 10 or above

**Microsoft .NET:** Version 8.0

#### Database Server

##### Server Hardware

**Processor:** 2.4GHz, 4C/8T (x64 Processor)

**Memory:** Minimum 16 GB RAM

**Available Disk Space:** Minimum 500 GB

##### Server Software

**Server OS:** Windows 10/11 Pro or above; Windows 2016 Server or above

**Database Server:** Microsoft SQL Database 2014 or above in Express, Standard or Enterprise editions

**\*NOTE:** all services may be installed on a single standalone server or multiple servers as network conditions allow.

**\*\*NOTE:** Server requirements vary depending on the number of cameras, resolution, storage capacity, and retention period. The calculations below are based on 16 cameras streaming at 1080p, 25 fps with 30 days of recording at 3 Mbps.

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