

Perspective VMS® v5.0.0

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

Industries and Markets



HIGHER EDUCATION



K-12 SCHOOLS



OIL & GAS



GOVERNMENT



HEALTHCARE



TRANSPORTATION



CRITICAL INFRASTRUCTURE



COMMERCIAL

Anything that we've ever needed, LENSEC has been on board - 100%. Right now, in the industry, it's hard to find that.



User and Administrator Modules



Dashboard

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



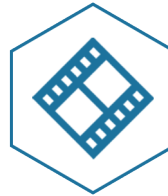
Maps

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



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.



Archives

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



Fleet

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



Reports

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



Administration

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



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.

Product Editions

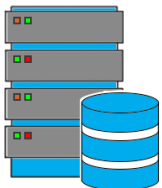
Express Edition	PVMS Express is a scaled down version of PVMS Enterprise Edition. Express is designed for small project with a limited scope in a single-site deployment
Standard Edition	PVMS Standard adds many features. Standard is for projects with a medium scope incorporating a few sites with centralized management.
Professional Edition	PVMS Professional includes advanced features and is designed for larger projects with a limited need for security integration with 3rd party software.
Enterprise Edition	PVMS Enterprise adds many add-on features, such as Active Directory, unlimited access control doors, optional video analytics, and ability to include third-party IP security devices.

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.

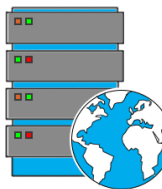


SYSTEM COMPONENTS



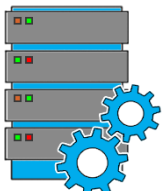
Database Server

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



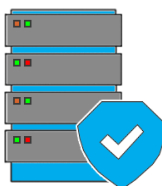
Web Server

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



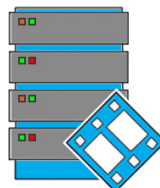
Administrative Service

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.



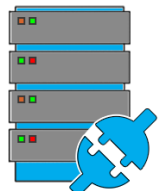
Archiving Service

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



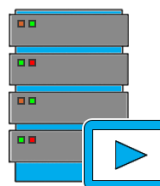
Camera Service

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



External System Service

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



Streaming Service

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

System Requirements

Perspective VMS® operates using an HTML5 platform and is run as a thin-client via modern web browsers including Google Chrome and Microsoft Edge.

NOTE:

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. Windows 2003 Server, Windows 2008 Server, Windows XP, Windows 7, and Windows 8 are NOT recommended as they are no longer supported under mainstream support with security patches and updates by Microsoft.

Client Minimum Hardware Requirements

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

Client Hardware	Client Software
Processor: 2.4 GHz (x64 Processor) or 1.3 GHz (Dual Core)	Client OS: Windows 10 or above (Recommend Windows 10)
Memory: Minimum 4 GB RAM	Client OS: Mac OS X or above (Recommend Mac OS X 10.4)
Available Disk Space: Minimum 10 GB	Browser: Google Chrome 74.0 or above (Recommend 78.0)
Display: SXGA (1280 x 1024) or higher resolution	64-bit)

Server Minimum Hardware Requirements

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

Web Server and Archive/Streaming Server

Server Hardware	Server Software
Processor: 2.4 GHz (x64 Processor)	Server OS: Windows 10 Pro; Windows 2012 R2 Server or above (Recommend Windows Server 2019)
Memory: Minimum 16 GB RAM	Web Server: Internet Information Services 7 or above
Available Disk Space: Minimum 1 TB	Microsoft .NET Framework: 4.8 and 5.0
OS Partition: Minimum 100 GB (if applicable)	
Network Interface Controller: Minimum 1 GB	

DATABASE SERVER

Server Hardware	Server Hardware
Processor: 1.0 GHz	Server OS: Windows 10 Pro; Windows 2012 R2 Server or above (Recommend Windows Server 2019)
Memory: Minimum 16 GB RAM	Database Server: Microsoft SQL Database 2008 or above in Express, Standard, or Enterprise editions (Recommend SQL Server 2017)
Available Disk Space: Minimum 320 GB	

Product Features Matrix

Perspective VMS® Features	Trial Edition	Command View Edition	Express Edition	Standard Edition	Professional Edition	Enterprise Edition
Deployment	Stand-alone	Stand-alone	Stand-alone	Distributed	Distributed	Distributed
Number of Users	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited
Number of Cameras	Unlimited	100	24	Unlimited	Unlimited	Unlimited
Number of Servers	Unlimited	1	1	5	Unlimited	Unlimited
Global Search	✓	✓	✓	✓	✓	✓
HTML5 Browser-Based	✓	✓	✓	✓	✓	✓
Dynamic Maps Integration	✓	-	✓	✓	✓	✓
Intelligent Archive Management	✓	-	✓	✓	✓	✓
Simultaneous Live / Archive View	✓	-	✓	✓	✓	✓
Archive Video Extraction	✓	-	✓	✓	✓	✓
System Health / Email Alerts	✓	-	-	✓	✓	✓
Share View User Collaboration	✓	-	-	✓	✓	✓
Neighboring Camera Associations	✓	-	-	✓	✓	✓
Archive Locking	✓	-	-	✓	✓	✓
System Lockdown	✓	-	-	✓	✓	✓
Time-lapse Extractions	✓	-	-	✓	✓	✓
Failover	✓	-	-	-	✓	✓
Dashboard	✓	-	-	-	✓	✓
'If-This-Then-That' Workflow Logic	✓	-	-	-	✓	✓
Import External Video Sources	✓	-	-	-	✓	✓
Active Directory	✓	-	-	-	✓	✓
Live GIS-Mapping	✓	-	-	-	✓	✓
Fleet Security Management	✓	-	-	-	-	✓
Interlink Multisite Remote Connection	Main/Remote site	Remote Site	Remote Site	Remote Site	Remote Site	Main/Remote site
Access Control Integration	✓	-	-	-	Add-on	Add-on
Video Analytics	✓	-	-	-	Add-on	Add-on
Automatic License Plate Recognition	✓	-	-	-	Add-on	Add-on
Facial Recognition	✓	-	-	-	Add-on	Add-on
Third-Party Security Devices	✓	-	-	-	-	Custom
Custom Development	-	-	-	-	-	Custom