Perpsective VMS® v4.3.1 Product Datasheet

PRODUCT OVERVIEW

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.

PERSPECTIVE VMS® BRINGS VALUE TO THE SECURITY ENTERPRISE

• Real-Time Situational Awareness
• The Unified Security Platform
• Automated Workflow Processes
• Enterprise Level Security
• Advanced Video Analytics
• Multi-Site Network Deployment
• Open Architecture Software
• Scalable For Small Or Large Security Projects
• Easy-To-Use Graphical Interface
• Browser-Based HTML5 Rich Application
• Security Integration With 3rd-Party Software
• Remote Access From Anywhere
• Hardware-Agnostic Software
• Multilingual User Interface
• User Collaboration Tools
• Notification & System Health Status
• Advanced Configuration Options for Adminstrators

PVMS IS APPROPRIATE FOR MULTIPLE INDUSTRIES AND MARKETS

COMMERCIAL
PVMS may be deployed in a distributed network, allowing remote site monitoring and archive recording at multiple sites across a region or around the world. Synchronous linking across the entire security enterprise ensures delivery of video and metadata despite the condition of the long-distance network.

CRITICAL INFRASTRUCTURE
PVMS is trusted when critical services require high availability and failover features for the security enterprise. Whether the security platform is managing IP surveillance cameras and IP devices for power, water, or other critical infrastructure, PVMS delivers operational performance when uptime is in high demand.

GOVERNMENT
PVMS brings diverse locations under the umbrella of a unified security platform. Governments deploy citywide surveillance systems with PVMS at the core, allowing administrators and users to use a common graphical interface, and encouraging inter-department collaboration with an easy-to-use application.

HEALTHCARE
PVMS leverages video analytics for healthcare environments, keeping people safe and assets secure. Face Mask Detection, Access Control Integration, and Asset Tracking are just a few advanced security tools leveraged by healthcare personnel to improve safety and proactive response to security issues in a medical environment.

HIGHER EDUCATION
PVMS is scalable and flexible enough to be deployed at multiple buildings across large university campuses. Educators have a high standard for security management whether one site or multiple sites need surveillance coverage. Existing cameras can usually be included in the security footprint, even if new cameras are being added.

K-12 SCHOOLS
PVMS works well, whether the school district needs a distributed network architecture, or a centrally-managed security system. LENSEC application engineers have significant experience in security project solutions, lending their expertise to security integration partners, providing best practices, and end-user training as needed.

TRANSPORTATION
PVMS includes fleet security management in the software, enabling system administration of fleet vehicles, capturing video, vehicle metadata, and automated processes for notifications when alerts occur. GIS-mapping, cellular and/or wi-fi connection, and i/o sensor information can improve fleet security management.

OIL & GAS
PVMS can monitor remote locations, even when site structures or resources are limited. Deploying remote site solar-powered equipment paired with IP security cameras can help keep Oil & Gas sites covered. This enables administrators to remotely monitor sites with video verification before rolling personnel when problems occur.

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

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SOFTWARE PRODUCT EDITIONS

Perspective VMS®
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.

Perspective VMS®
Standard Edition

PVMS Standard adds many features. Standard is for projects with a medium scope incorporating a few sites with centralized management.

Perspective VMS®
Professional Edition

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

Perspective VMS®
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 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 2019 and 2016), as well as Windows desktop versions of Windows 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 RECOMMENDATIONS

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) **Memory:** Minimum 4 GB RAM **Available Disk Space:** Minimum 10 GB **Display:** SXGA (1280 x 1024) or higher resolution1 GB	**Client OS:** Windows 10 or above (Recommend Windows 10) **Client OS:** Mac OS X or above (Recomend Mac OS X 10.4) **Browser:** Google Chrome 74.0 or above (Recommend 78.0 64-bit)

SERVER SYSTEM RECOMMENDATIONS

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) or 1.3 GHz (Dual Core) **Memory:** Minimum 32 GB RAM **Available Disk Space:** Minimum 1 TB **OS Partition:** Minimum 60 GB (if applicable) **Network Interface Controller:** Minimum 1 GB	**Server OS:** Windows 10 Pro; Windows 2012 R2 Server or above (Recommend Windows Server 2019) **Web Server:** Internet Information Services 7 or above **Microsoft .NET Framework:** 4.8

DATABASE SERVER

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

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THE PERSPECTIVE VMS® NETWORK

Perspective VMS® is deployed on a security network which may be a closed Local Area Network (LAN) or available via the internet on a Wide Area Network (WAN). PVMS uses several default TCP connections for accessing services. Some of these services are on ports that are not typically accessible by default, so network administrators may need to allows access to ports from different systems for system functionality. Check with LENSEC Support for more information.

SYSTEM COMPONENTS

DATABASE SERVER - Perspective VMS® leverages a Microsoft® SQL Server Platform for transactional data warehousing. Much of the metadata collected in PVMS is stored in the database and available for delivery to users in the user interface.

WEB SERVER - The PVMS user interface is presented as a web application service powered by Microsoft® Internet Information Services (IIS), a flexible, secure, and manageable web server for hosting anything via the browser. PVMS is accessible via modern web browsers, including Chrome, Edge, and Safari whether the browser can publically access the internet or not.

ADMINISTRATION SERVICE - The Perspective VMS® service for administration monitors and checks drives for the appropriate utilization; determines free drive space; and purges old archives or moves them to offsite locations as needed. The administration service is also responsible for importing and ensuring user synchronization between Active Director and PVMS.

HEALTH MONITORING SERVICE - System health is monitored by this PVMS service, checking if system cameras are running. Upon the service detects a camera error, users will be notified about the camera status. Health reports are generated for cameras, servers, network-connected IP devices, and other system components.

ARCHIVING SERVICE - Perspective VMS® video capture is managed by the archiving service. This tool also handles image extraction requests from users. Live recording requests from users are also sent to the archiving service, capturing the video stream and encoding them using H.264 or MPEG-4 codes for optimal quality and file size.

STREAMING SERVICE - The streaming service handles intermediary data transfers between cameras and PVMS. This service also streams video to the archiving service.

EXTERNAL SERVICE - Perspective VMS® is an open-architecture software that integrates with third-party security software. The external service ustes a stand-alone, independent package acting as an intermediary communication agent between PVMS and 3rd party software and hardware applications.

ANALYTIC SERVICE - PVMS analytics service generates server-based video analytic events and integrations with third-party video analytic providers.

NOTE: These services may run on one or multiple servers as required by surveillance network conditions.

PERSPECTIVE VMS® USER AND ADMINISTRATOR MODULES

Interactive map navigation provides an at-a-glance geographical overview of the entire enterprise. Users can locate and monitor individual cameras, view live cameras using the camera dock, and navigate multi-layered maps.

Live camera viewing gives users the ability to monitor live video streams. Users can create sequences of multiple camera views, control PTZ cameras, review recently recorded video, and initiate on demand recording.

Video archive management allows users to locate and playback archived video. The archive provides functional retrieval for timeline based recordings. Users can download and share archived video as well as identify events and tagged footage.

Fleet security management allows users to quickly locate vehicles and play back archived video. This module allows users to turn on equipment remotely, retrieve archives, and conduct vehicle incident investigations.

Reports provide useful information including system health status, camera status, and user login activity. Administrators are able to launch configurable or filtered reports showing system information, user audit trails, and export those reports in several common formats.

Application administration and configuration provides permission-based administrator access to all user, camera and system management functions. Individual users may gain access to all user-defined functions and settings.

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PVMS training options include online instruction at-your-own-pace, in-person training, and product tutorials. These give users a comprehensive overview for the application's functions and features.

Technical certification is appropriate for system administrators and field technicians, with options for live onsite instruction or virtual training events.

PVMS PRODUCT FEATURE MATRIX

Perspective VMS® Features	Trial Edition	Command View Edition	Express Edition	Standard Edition	Professional Edition	Enterprise Edition
Maximum Number of Users	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited
Maximum Number of Cameras	10	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited
Global Search	✓	✓	✓	✓	✓	✓
HTML5 Browser-Based	✓	✓	✓	✓	✓	✓
Dynamic Maps Integration	✓	-	✓	✓	✓	✓
Intelligent Archive Management	✓	-	✓	✓	✓	✓
Simultaneous Live / Archive View	✓	-	✓	✓	✓	✓
Archive Video Extraction	✓	-	✓	✓	✓	✓
System Health Reports / Email Alerts	-	-	-	✓	✓	✓
Share View User Collaboration	-	-	-	✓	✓	✓
Neighboring Camera Associations	-	-	-	✓	✓	✓
Archive Locking	-	-	-	✓	✓	✓
System Lockdown	-	-	-	✓	✓	✓
Time-Lapse Extractions	-	-	-	✓	✓	✓
Failover	-	-	-	✓	✓	✓
'If-This-Then-That' Workflow Logic	-	-	-	-	✓	✓
Import External Video Sources	-	-	-	-	✓	✓
Active Directory	-	-	-	-	✓	✓
Fleet Security Management	-	-	-	-	✓	✓
Live GIS-Mapping	-	-	-	-	✓	✓
Interlink Multisite Remote Connection	-	-	Add-On	Add-On	Add-On	✓
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