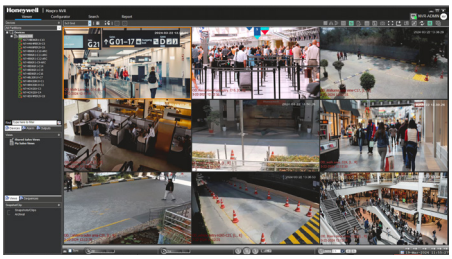
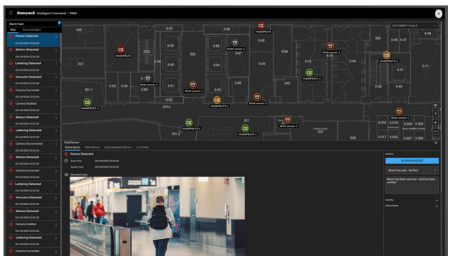
MAXPRO® VMS

Video Management System



MAXPRO VMS



MAXPRO Intelligent Command

Honeywell MAXPRO VMS (video management system) is based on a client-server architecture controlling multiple subsystems in order to collect, manage and present video in a clear and concise manner. MAXPRO VMS intelligently determines the capabilities of each subsystem across various sites, allowing either analog or digital content through a unified viewer.

MAXPRO VMS supports emerging technologies in the industry, like 4K resolution, H.265 smart video compression codec, multi-imager cameras and fisheye cameras. Customers can fully utilize the advantages of superb video quality with four times the details over 1080p HD, 30%~50% less storage expense (when compared to H.264 compression), and seamless 180° and 360° surrounding surveillance. Advanced camera features, like "Click & Drag" 3D PTZ control, license plate recognition, intelligence events and bounding boxes on objects detected by specific video analytics, help surveillance operators to efficiently protect people, property and services.

MAXPRO has database redundant and 1+1/N+M NVR failover features for unforeseen/maintenance scenarios in enterprise and critical infrastructure applications. Once there is a failure on NVR equipment, system database or network, the redundant and failover feature can continue to support the system functions with minimal interruption. Incidents will be reported in a system log for future auditing and reporting.

MAXPRO VMS, combined with Honeywell's Intelligent Command's powerful web-based platform and intuitive graphical interface, allows greater unified command and control with expanded situational awareness features. MAPS feature works with GIS/CAD for map navigation across sites, buildings and floors with camera and access device placement for live view, playback and alarm indication. System maintenance has never been easier with a centralized point to update NVR and VMS workstation software as well as bulk camera firmware and password updates. System Health Dashboards across all devices enable customers to manage their facilities efficiently and with ease.

MAXPRO VMS is also highly scalable so users can easily expand their video surveillance network from small to medium single instances to enterprise level supporting thousands of devices.

MARKET OPPORTUNITIES

MAXPRO VMS is ideal for facilities requiring at-risk critical infrastructure protection such as airports, seaports, large multi-site commercial buildings, casinos, and other high-profile facilities. It is the perfect client-server video management solution for locations requiring the use of both digital and analog technologies.

MAXPRO VMS products contain no content or material from any companies or their subsidiaries prohibited under US National Defense Authorization Act (NDAA) Section 889 and can be used as part of video systems which comply with NDAA Section 889.

Honeywell

FEATURES

Scalable security system for flexible deployment

- A single MAXPRO server can support numerous recording sub systems (NVR/DVRs)
- Distributed architecture in the form of multiple MAXPRO servers in a parent-child topology facilitates "Enterprise" style deployment, where child VMS server users & roles, workstations, sites, and partitions can be easily added to parent VMS server through advanced discovery

Open integrated platform for end-to-end solution

- Auto-discovery of cameras connected to supported recorders
- 30 / 35 /60 /70 Series, multi-sensor and explosion-proof camera support
- Support for multicast stream reduces camera and network loading with live view on multiple clients
- SNMPv3 to report alerts to monitoring applications

Redundant server and recorder failover for 24/7 operational continuity

- Redundant server option increases system reliability
- 1+1/N+M recorder failover and failback automatically or manually with up to 128CH
- Mirror NVR setup for active redundancy and high availability with up to 128CH

Smart search, playback and clip export for efficient forensic investigation

- Ability to investigate events and alarms by simultaneously viewing alarm video at various stages. For every alarm, users can view the video captured during pre-alarm, on-alarm, post-alarm, and also view live video from the camera which triggered the alarm through a single 2x2 salvo
- Commentable bookmarks allow users to tag scenes of interest in the timeline to easily return to the scene with multiple cameras' views
- Search and find video through event view or timeline. Preview search allows viewing a snapshot at various times to quickly narrow the scene of interest
- Smooth reverse and synchronous playback across MAXPRO NVRs for efficient investigation
- Incident management mode allows creating a package of clips multiple cameras at different times that can be played back sequentially

Intelligent analytics for proactive threat detection and operation efficiency boost

- Intelligent events from cameras can be viewed at the alarm panel and trigger event recording on MAXPRO NVRs for further investigation
- Annotation with advanced edge analytics in both live view and playback for visual notification and verification
- Honeywell Video Analytics (HVA) integration with automatic camera stream selection for optimal performance
- Integration with augmented vision from Idemia and OnWatch from Oosto for facial recognition analytics
- Integration with video analytics from Ipsotek
- License plate recognition events including plate number. Enhanced report generation allows cropped, full, and merged images for easy auditing. Available on select Honeywell 60 series bullet cameras (coming Q3 2025) and 70 series bullet cameras.

Powerful desktop clients for enhanced monitoring and fast response

- Viewing, creating, saving and naming salvos with up to 8x8 cameras each under My Salvos or Shared Salvos. Support for aspect ratio - 16:9, 4:3 and stretched for video salvos
- Surrounding cameras mode with presets, makes following subjects of interest simple and efficient by allowing the nearest camera of interest to be immediately in view
- Quick and responsive alarm actions can be initiated from the preview pane options
- Innovative "One-Click" or "Mouse Drag" 3D PTZ control experience that does away with legacy PTZ controls of continuous clicking
- 360° de-warping "spreads" the distorted fisheye image into natural panoramic and/or multiple tile views. Operators can view and focus on zones of interest on live and recorded video
- Enriched video viewing experience through intuitive video rendering engine optimizes CPU utilization by altering the video frame rate for low bandwidth throttling
- NVIDIA and Intel GPU based rendering support for H.264 and H.265 decoding up to 60 frames per second (1080p camera) with smooth display on 4K monitors reduces the number of workstations needed for monitoring large sites with 30+ cameras
- Ability to play recorded video together with audio stream and ability for operators to talk to camera audio output through bi-directional audio support
- Control any analog or digital monitor from a single workstation or joystick keyboard. Allows the system to be used as a true analog and digital matrix
- Monitor control allows controlling all monitors from a single client (monitor wall control)
- Remote monitor mode allows sharing and controlling a remote monitor while still viewing locally

Unified mobile apps

- Single, unified Honeywell Secure mobile App allows access to cameras and doors via VMS, NVR, and Intelligent Command while on the move
- Compatible with iOS® and Android™ devices

Intuitive graphical user interface for efficient site management

- Feature-rich and user-friendly client interface to view video from numerous different recorders from a single point
- Operators can log on using their local language and the built-in messaging system allows operators to share video scenes via instant messages
- Role-based operator privileges
- An extremely powerful macro programming language is available to fully customize actions based on events
- Support for active directory user authentication with group based access
- System Health Visuals: quickly review camera connectivity and retention status for effective operations

Effective privacy protection options for data privacy compliance

- Body pixilation and blurring in live view to protect customer and employee privacy from abuse of surveillance data
- Four-eye dual user authentication for playback of original video record, for example, with simultaneous logon from two groups of managers and worker' council representatives
- Selective unmasking for clip export of selected cameras and date/time with only the face of a person of interest unmasked while other people's faces are anonymized

ARCHITECTURE

MAXPRO VMS is based on client-server architecture for maximum flexibility, customization and integration. It offers one-click migration support from analog matrix systems. The MAXPRO VMS client enables the monitoring of sites and the configuration of video devices such as cameras, monitors, keyboards, etc. The MAXPRO VMS server consists of the MAXPRO VMS framework controller and database, and other core components.

MAXPRO® VMS Intelligent Command

MAXPRO Intelligent Command is a powerful web-based platform and intuitive graphical user interface which transforms the video management experience to optimize security surveillance, enhance situational awareness and make properties more secure.

FEATURES

Scalable security system for flexible deployment

- Web-based application for stand-alone and integrated systems of video & access control
- Expand the number of thin client users for local or remote access anywhere
- Removal of the need for firewall or IT exceptions as well as software installation and support for workstations

Graphical user interface for efficient site management

- Connected security across geolocations
- Unified and intuitive user interface reduces training costs for security personnel
- Customizable viewing grid via drag-drop camera setup plus priority sequencing of vulnerable areas, cameras or access points
- H.264 and H.265 video codecs supported
- Support for bulk camera firmware upgrade and password modification through Intelligent Command, for simplified device maintenance
- Incident workflow with attachments, Incident reports and standard operating procedures for efficient situational response
- Certificate-based encryption secures server-client communications

Map navigation to view security status of property and buildings

- GIS online map support including OpenStreet Maps or other web-based maps
- Easy cross-site navigation with instant in/out zoomable maps from global to local viewpoints
- Import multi-layered building floor plans for precision in identifying and locating events
- Leverage existing CAD drawings/floor plans and significantly reduce map engineering costs
- Devices quickly placed on GIS or floor plan maps via drag-drop or via configuring map structure
- HTML 5 live video and instant playback for quick situation response

Incident workflow and standard operating procedures for rapid decision making and situation response

- Compliance with standard policies through customizable workflows
- Quick search and filter functionality for alarms or specific situational notifications
- Unified alarm management in alarm details pane including acknowledgement, history, and rollup
- Attach and secure various forms of evidence to incidents
- Automatic documentation of any incident workflow trail including location, time, evidence, assignment, operator comments, and standard operating procedures
- Generate incident report package and export in pdf to authorities

Embedded tools to drive compliance metrics and centralized device management

- System Health Dashboard provides 24-hour simultaneous recording status across fleet of NVRs all in one dashboard for early detection of device failures
- Healthy Building Dashboard single view of metrics on occupancy and crowd estimation, no mask detection and social distancing violations
- Accelerate multiple video device firmware updates simultaneously
- Simplify device maintenance and password updates across multiple devices at once
- Centralized Software Inventory and updates for NVR and VMS workstation

INTELLIGENT COMMAND IS COMPATIBLE WITH:

- MAXPRO VMS
- MAXPRO NVRs[1]
- 35 Series Embedded NVRs[2]

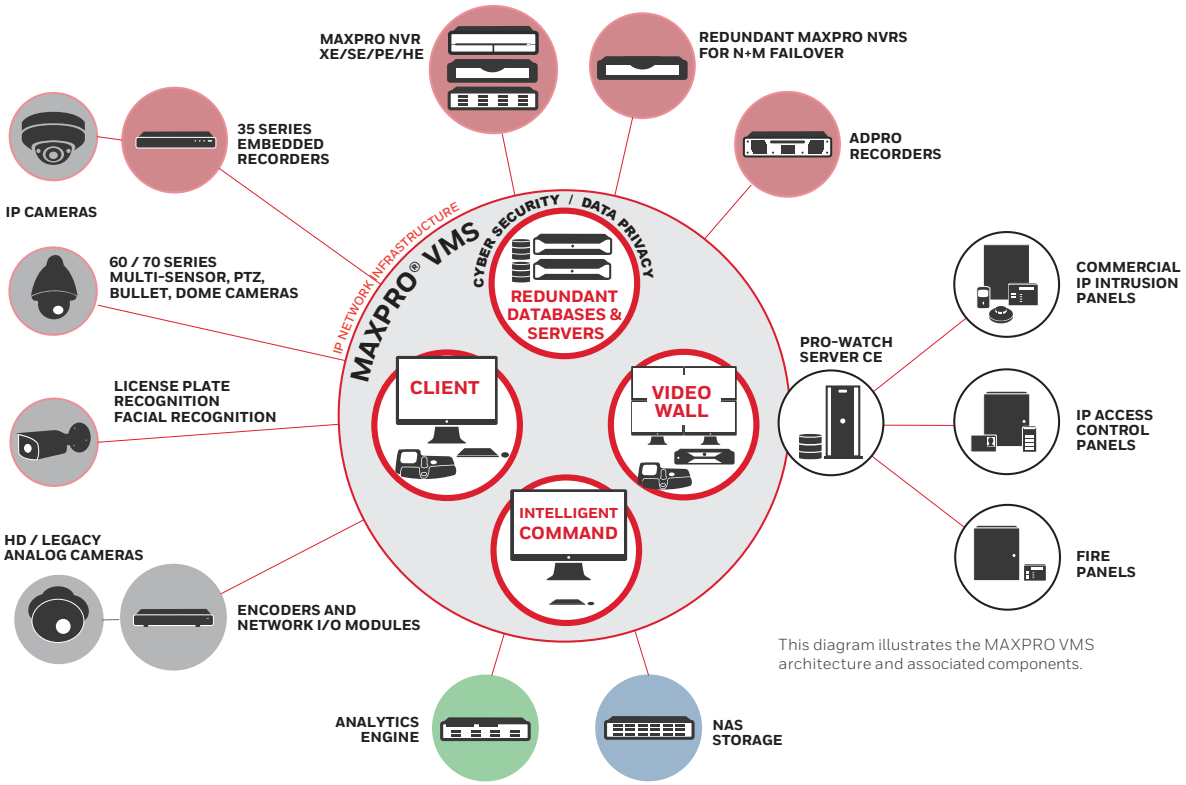
[1] In conjunction with the VMS

[2] In conjunction with MAXPRO VMS. Supports standard events, dashboards

CYBER SECURITY FEATURES

- Enhanced password security: non-recoverable passwords, enforcing complex passwords, password expiry, no default passwords
- Secured firewall configuration
- Secured web client – enabled HTTPS and TLS 1.2; protection from CSRF and XSS attacks
- Restricted folder and registry access to operators
- Secured assemblies – digital signing
- Secure communications with Honeywell 30, 35, 60, 70 Series cameras with TLS1.2 encrypted video streams
- Support for digest authentication in multicast stream between camera and MAXPRO VMS client
- Tamper alerts of video files and AES-256 algorithms/SHA-256 hashing for integrity validation

MAXPRO® VMS Video Management System



This diagram illustrates the MAXPRO VMS architecture and associated components.

TABLE 1. RECOMMENDED HARDWARE SPECIFICATIONS			
MAXPRO VMS Minimum Server Specs	**Standard Spec 10 Clients**	**Performance Spec 25 clients**	**Premium Spec Greater than 25 Clients**
PROCESSOR	Intel® Quad Core™ Xeon® E3 1225 V3 3.2GHz S1150 and above	Intel® 6 Core™ Xeon® E5 2630V2 2.6GHz S2011 and above	Intel® 20 Core™ Xeon® Gold 5218R CPU Family 3.2 GHz and above
OPERATING SYSTEM	Microsoft Windows® Server 2022 64-bit, 2019 64-bit		
COMPUTER TYPE	Server – Dual power supply suggested		
SYSTEM MEMORY (RAM)	24 GB	32 GB	64 GB
DVD DRIVE	DVD +/- RW		
DISK	Two separate hard drives or two sets of RAID arrays		
	Disk/RAID set 1 utilizes 10K RPM SATA 150 GB or 10K-15K RPM SCSI 146 GB for Windows® operating system, MAXPRO VMS Server Software, and Microsoft SQL® Server software		
	Disk/RAID set 2 utilizes 10K RPM SATA 150 GB or 10K-15K RPM SCSI 146 GB for MAXPRO VMS database files and Microsoft SQL® Server database files		
	Note: If fault tolerance is required, RAID set 1 is RAID 1, 10 or 0+1 and RAID set 2 is RAID 10 or 0+1		
VIDEO ADAPTER	Display adapter with video resolution 1024x768 pixels; 32-bit color or higher		
SERIAL PORTS	Only required if serial device are to be connected - Suggested 8 Port MOXA PCI-e serial RS232		
NETWORK CONNECTION	1 Gbit/sec or greater		
VIRTUAL ENVIRONMENT	VM Ware ESXi version 5.5, vSphere and Hyper-V		

TABLE 2. RECOMMENDED WORKSTATION SPECIFICATIONS		
MAXPRO VMS Minimum Workstation Specs	**2 Monitor Workstation**	**4 Monitor Workstation**
PROCESSOR	Intel® Core™ i7-10700 CPU @ 2.90GHz (16 CPUs), ~2.9GHz	
OPERATING SYSTEM	Microsoft Windows® 10 Enterprise 64-bit Microsoft Windows® 11 Enterprise 64-bit	
COMPUTER TYPE	Workstation	
SYSTEM MEMORY (RAM)	16 GB	
DVD DRIVE	DVD +/- RW	
DISK	500 GB 7200RPM SATA3	
VIDEO ADAPTER	Integrated Intel® UHD graphics 630 Integrated Intel® UHD graphics 770	Integrated Intel® UHD graphics 630/770 and NVIDIA® Quadro® P620 / Equivalent
NETWORK CONNECTION	1 Gbit/sec or greater	
VIRTUAL ENVIRONMENT	Virtual environment not supported on client machines	

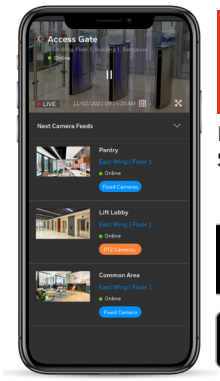
TABLE 3. ORDERING INFORMATION – MAXPRO VMS	
MAXPRO VMS - Part Numbers and Licensing	
MAXPRO VMS - Base Software and Licenses	
HNMSWVMS	VMS Base software includes: MAXPRO VMS, SQL® 2019 Express, includes licenses for one (1) MAXPRO VIEW Client, with 64-channel interface to MAXPRO NVR Series, IP engine, Enterprise NVR, MAXPRO-Net and VideoBloX Matrix switch. *(Add "-B" to P/N for redundant server licenses)*
SSAHNMVMS	Annual software support agreement - MAXPRO VMS Base software
SSAHNMRED	Annual software support agreement - redundant MAXPRO VMS software
MAXPRO Client License – One license per connected workstation (Client application can run multiple instances)	
HNMSWCL	MAXPRO View - single client license
MAXPRO VMS Base Channel License	
HNM64	Additional 64 base channels
HNM128	Additional 128 base channels
HNM192	Additional 192 base channels
HNM256	Additional 256 base channels
HNM384	Additional 384 base channels
HNM448	Additional 448 base channels
HNM512	Additional 512 base channels
MAXPRO VMS with Active Alert® Video Analytics - One license per analytics channel	
HNMHVAB	HVA - base package
HNMHVAS	HVA - standard package
HNMHVAP	HVA - premium package
HNMHVASI	HVA - smart impressions
HNMHVAPC	HVA - people counter

TABLE 4. ORDERING INFORMATION – MAXPRO VMS LITE	
MAXPRO VMS LITE - Part Numbers and Licensing	
MAXPRO VMS LITE - Base Software and Licenses	
HNMSWVMSLT	MAXPRO VMS Lite software includes: MAXPRO VMS, SQL® 2019 Express, includes licenses for one (1) MAXPRO VIEW Client, with 64-channel interface to MAXPRO NVR Series, IP engine, Enterprise NVR, MAXPRO-Net and VideoBloX Matrix switch. Expandable up to a maximum of three clients and 128 channels. No third-party adapter support. *(Add "-B" to P/N for redundant server licenses)*
SSAHNMVMSL	Annual software support agreement - MAXPRO VMS Lite software
MAXPRO VMS Lite Base Channel License - One license per video input	
HNM64	Additional 64 base channels
MAXPRO VMS Redundancy after the MAXPRO VMS Lite Upgrade	
HNMSWRED	MAXPRO Redundant System
MAXPRO VMS Lite Upgrade	
HNMUG	Upgrade MAXPRO VMS Lite to MAXPRO VMS
INTELLIGENT COMMAND	
HNMINDWRKFL	Intelligent Command Incident & Workflow
HNMDASHBOARDS	Intelligent Command Safety & Compliance Dashboard
HNMONLNEMAPS	Intelligent Command GIS/Online Web Map Integration
HNMVMS3PDM	Camera device management for third-party cameras
VMS Third-Party Analytics	
HNMANALYTICS	3P Analytics adaptor license

TABLE 5. MAXPRO VMS Version Recorder Compatibility			
Recorder Models	**7.5 / 7.9 / 7.95**	**7.0**	**6.7/6.9**
MAXPRO NVR	✓	✓	✓
MAXPRO VMS (VMS IN VMS)	✓	✓	✓
ADPRO IFT, IFT-E, FASTTRACE 2E, IFT GATEWAY	✓	✓	✓
35 SERIES E-NVR- HN35 / HN35 PLUS / HN35 PLUS MPC / HN35 PRO	✓	×	×

✓ Supported × Not Supported

DOWNLOAD MOBILE APP



HONEYWELL SECURE

View live and recorded video, manage alarms and overall site security.

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