

MAXPRO® NVR Software

www.honeywellvideo.com

NETWORK VIDEO RECORDING SOLUTION

Honeywell's MAXPRO NVR Software is a flexible, scalable and open IP video surveillance system. Supporting Honeywell's high definition (HD) cameras and broad integration with third party IP cameras and encoders, the MAXPRO NVR family is a powerful HD IP recording and security monitoring system for a variety of applications. MAXPRO NVR Software ensures flexibility for end user IT departments when choosing NVR hardware in deploying a recording solution, but end users will find it as easy as a DVR to configure and operate.

MAXPRO NVR Software is an open platform and supports broad third party device integrations with support for PSIA and ONVIF (including Profile S devices) standards, real time streaming protocol (RTSP) standard and native device integrations including 360° camera support.

MAXPRO NVR provides easy to use desktop clients, web client and mobile apps—MAXPRO Mobile. The Web Client is supported from any standard Mac or PC browser and requires no additional install, provides the value of reduced setup, maintenance and improved compatibility. The interface is simple and intuitive with all the functionality and features that users need for daily surveillance operations, such as live view and playback of recorded video.

MAXPRO NVR Software comes with all required software applications and a license for 4, 8, 16 or 32 channels allowing for up to 32 cameras as your system grows. Minimum hardware specifications for different levels of recording and monitoring performance are provided for IT departments to choose the appropriate hardware platform. This, along with an easy 3-Click* wizard to live video for auto configuration, makes installing HD IP systems quick and efficient without requiring any IP expertise. Simple and logical configuration pages make setup a breeze even for the novice installer.

The MAXPRO NVR Software user interface is based on Honeywell's flagship MAXPRO VMS user interface which offers a feature rich user experience and is common across the MAXPRO NVR family. Utilization of this familiar interface allows for the "Learn One, Know Them All" concept that ensures familiarity across a broad range of Honeywell products saving training costs..

MAXPRO NVR Software supports simultaneous recording, live and playback viewing, search and system management for up to 32 IP cameras including HD formats in a single server instance. Multiple MAXPRO NVRs can be deployed for system expansion using a distributed architecture and integrated with the MAXPRO Viewer multi-site software or MAXPRO VMS enterprise video management system.

MAXPRO NVR Software supports multiple simultaneous operations such as video recording and video viewing or alarm monitoring on the server unit without the need for an additional workstation and also provides the option of remote monitoring clients. Users can view live video while simultaneously performing searches. MAXPRO NVR Software also offers advanced features: Video Surround, a Honeywell-patented feature, provides the ability to track subjects of interest as they move between areas covered by adjacent cameras by simply double-clicking on the panel where the subject is currently visible. Features like the powerful calendar, preview search options and film strip view allow for rapidly searching video for scenes of interest and then quick export transfers video to an authenticated video clip playable through Windows Media player.

**With default settings and in a local area network*

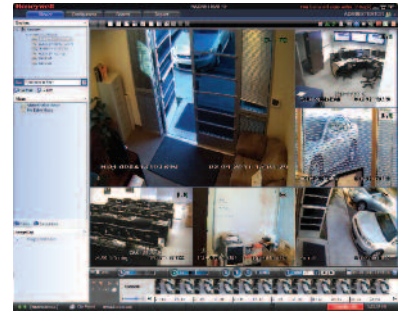
Market Opportunities

The continual growth of IP networks and the demand for HD video offered by IP cameras have led to the need for convergence of building security systems and IT systems for many companies across the globe. This has resulted in a strong demand for open video recording solution software. MAXPRO NVR Software provides flexible and scalable operational power to address the needs of a wide variety of applications. When the need is for an easy to install, simple to use, and feature rich open network video recorder, the solution is MAXPRO NVR Software.

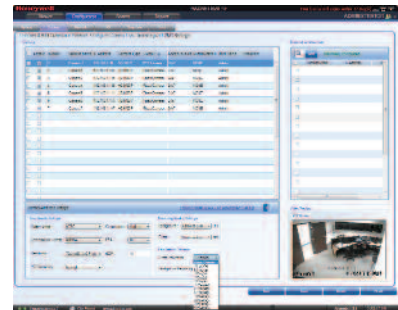


FEATURES

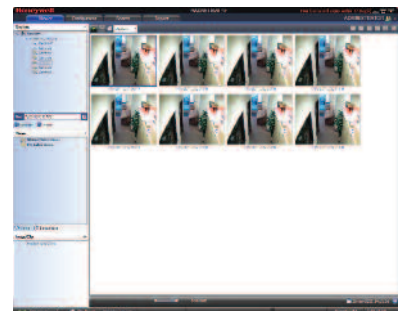
- MAXPRO NVR Software allows local or remote operations including live and recorded video monitoring, configuration and system management in a single desktop client interface.
- Support for Web Client on Windows PC (Internet Explorer, Chrome and Firefox browsers) and Mac (Safari browser). Supports live, playback/search of recorded video for up to 1080p resolution on all cameras, taking snapshots and viewing presets for PTZ cameras
- Support for mobile monitoring clients on iOS and Android with MAXPRO Mobile apps
- Broad device integrations: Honeywell cameras and encoders, third party devices with support for standards—PSIA and ONVIF (including Profile S devices), RTSP standard and native device integration including 360° camera support.
- Feature-rich, user-friendly Windows based interface to view HD video and configure system settings.
- Easy 3-click* wizard to set up the system with auto-configuration and auto-discovery of IP cameras, recording and monitoring configuration—without any IP video expertise.
- Multi-zoom views on HD video. Example: Zoom in on a cash register in one view of the HD camera while at the same time monitoring the cash operator in the zoom out view of the HD camera.
- Ability to investigate events and alarms by simultaneously viewing alarm videos at various stages. For every alarm, users can view the video captured during pre-alarm, on-alarm, and post-alarm, and also view live video from the camera which triggered the alarm.
- Enriched video viewing experience through the intuitive video rendering engine that optimizes CPU utilization by altering the video frame rate.
- Honeywell's patented Video Surround feature simplifies the process of tracking subjects through a set of surrounding cameras.
- Create, save and name salvos under My Salvos or Shared Salvos.
- IP PTZ control and digital zoom on fixed cameras. 360° immersive viewing experience providing heightened situational awareness and increased video surveillance coverage.
- Fast search by date/time, time line, time jump, bookmarks, calendar, preview, film strip view and events. Increase productivity with more efficient search/investigation: Get to the relevant video in few clicks without having to review hours of recordings.
- Event history and operator log reporting with export in .pdf, Crystal Reports, Excel or Word.
- Capture and export clips and still images in simple .wmv and .bmp formats. Clips signed with digital signature for authentication
- Supports multiple client connection to NVR Server.
- Separate event video and general recorded video retention times.
- Email notification on camera, system and operator events.
- Role-based operator privileges supporting Windows and local users.
- Flexible Motion detection (VMD) options with Server (Smart VMD) or Camera based motion events support. Reduced false alarms with object based motion detection analytics with Smart VMD.
- Supports One-Way Audio (for specific IP cameras) with live and playback on desktop clients
- Advanced security features with encryption support for communication between desktop client to NVR and secure https login for Web Client
- Keyboard control with UltraKey Plus and UltraKey Lite over Ethernet.
- Local and multi-language support.
- Multi-site support with MAXPRO Viewer.
- Integration with MAXPRO VMS.
- Integration with WIN-PAK® and Pro-Watch® Access Control Systems.



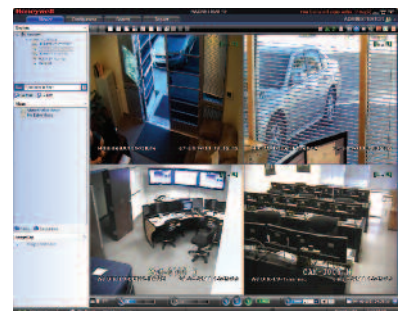
6 Split



Event Record



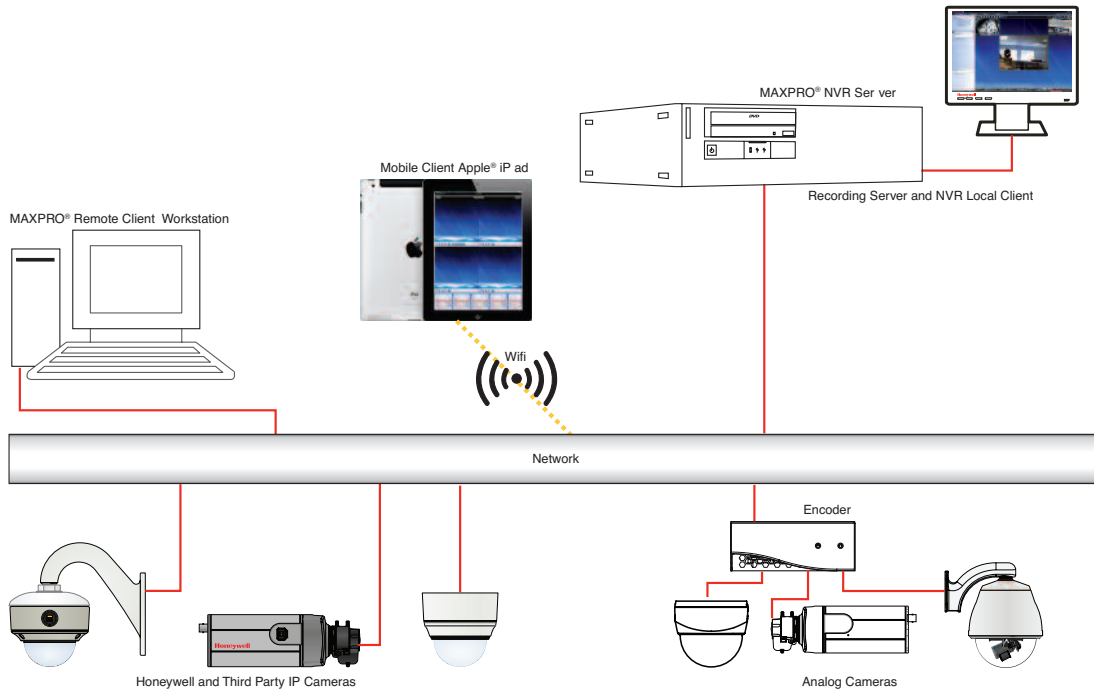
Preview



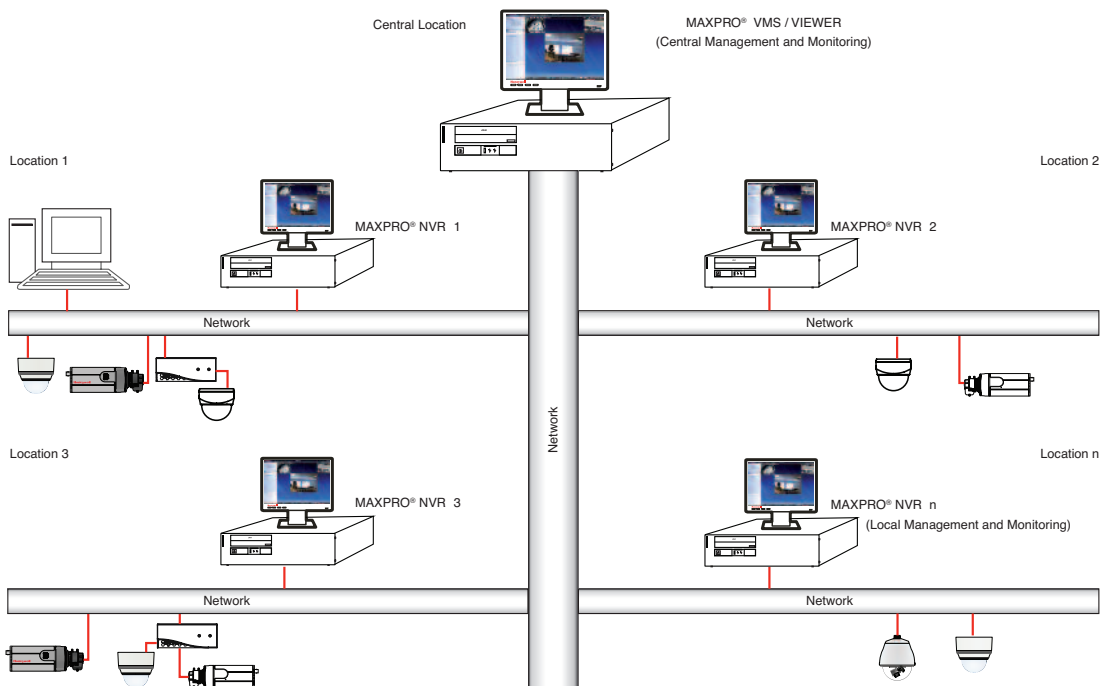
Quad

SYSTEM DIAGRAM

MAXPRO® NVR Standalone NVR System



MAXPRO® NVR Multiple NVRs — Distributed Architecture



MINIMUM HARDWARE SPECIFICATIONS

MAXPRO NVR Server - Version 3.1 or above Up to 8 or 16 Channels	
Processor	Intel® Core™ i5-3470 3.2 GHz or higher
System Memory (RAM)	Minimum 4 GB or higher Performance 8 GB or higher
OS & Application – Hard Disk Drive or Partition	Minimum 100 GB Partition drive or separate hard drive
Graphics Adapter	Minimum Integrated Intel® Graphics – DirectX 9 compatible
Network Interface	Minimum – 2 Gigabit network interface card
Optical Drive	DVD-RW
Video Storage Drive	Video rated or Enterprise drive, 7200 RPM SATA/SAS recommended
Monitor Resolution	Video resolution 1280x1024 pixels, 32 bit
Keyboard / Mouse	102-key keyboard and mouse
Operating System Options	Microsoft® Windows 7 Professional (32-bit and 64-bit) SP1 Microsoft Windows 2008 Server R2 SP1
Database	Microsoft SQL Express 2008 R2 is automatically installed while installing MAXPRO NVR Server
Supported Performance	
Recording and Monitoring Performance	480 fps @ 4CIF/VGA or 480 fps @ 720p HD or 400 fps @ 1080p HD. 1-way audio for up to 8 or 16 IP channels. Network bandwidth/throughput supported per NVR with Incoming: 65 Mbps, Outgoing:65 Mbps providing a Total: 130 Mbps.
Server based VMD (Smart VMD) performance - channels supported	All 8 or 16 channels supported at 480 fps @ 4CIF/VGA or 480 fps @ 720p HD or 400 fps @ 1080p HD. Note: Local client - 4x4 view for 1080p or lower resolutions
Max Video Streams Support	Web Client: Total Streams Limit - 32 (live + playback). Note: Live streams consumed are per camera being viewed live and duplicate live views of the same camera in multiple or same web client instance are allowed without consuming additional streams. Playback streams consumed are per playback stream being viewed and each playback stream being viewed consumes 1 additional stream. Desktop Client: Live - 160 streams, Playback/Video retrieval sessions - 32, Sync playback - 9 streams.

MAXPRO NVR Server - Version 3.1 or above Up to 24 or 32 Channels	
Processor	Intel® Core™ i7-3770 3.4 GHz or higher
System Memory (RAM)	Minimum 4 GB or higher Performance 8 GB or higher
OS & Application – Hard Disk Drive or Partition	Minimum 100 GB Partition drive or separate hard drive
Graphics Adapter	Minimum Integrated Intel® Graphics – DirectX 9 compatible
Network Interface	Minimum – 2 Gigabit network interface card
Optical Drive	DVD-RW
Video Storage Drive	Video rated or Enterprise drive, 7200 RPM SATA/SAS recommended
Monitor Resolution	Video resolution 1280x1024 pixels, 32 bit
Keyboard/Mouse	102-key keyboard and mouse
Operating System Options	Microsoft® Windows 7 Professional (32-bit and 64-bit) SP1 Microsoft Windows 2008 Server R2 SP1
Database	Microsoft SQL Express 2008 R2 is automatically installed while installing MAXPRO NVR Server
Supported Performance	
Recording and Monitoring Performance	960 fps @ 4CIF/VGA or 960 fps @ 720p HD or 640 fps @ 1080p HD. 1-way audio for up to 24 or 32 IP channels. Network bandwidth/throughput - Incoming: 120 Mbps, Outgoing: 120 Mbps, Total: 240 Mbps
Server based VMD (Smart VMD) performance - channels supported)	Channels at max fps: 32 ch at 960 fps @ 4CIF/VGA or 32 ch at 960 fps @ 720p or 16 ch at 640 fps @ 1080p. All Channels at fps: 32 ch at 960 fps @ 4CIF/VGA or 960 fps @ 720p or 320 fps @ 1080p. Note: Local client - 2x2 view for 1080p and 4x4 view for all other lower resolutions.
Max Video Streams Support	Web Client: Total Streams Limit - 32 (live + playback). Note: Live streams consumed are per camera being viewed live and duplicate live views of the same camera in multiple or same web client instance are allowed without consuming additional streams. Playback streams consumed are per playback stream being viewed and each playback stream being viewed consumes 1 additional stream. Desktop Client: Live - 160 streams, Playback/Video retrieval sessions - 32, Sync playback - 9 streams.

Note:

- MAXPRO NVR Server specifications support 1 local monitoring client. Refer to Storage Calculator for the Video Storage size required based on recording schedule.
- Virtual Environment (NVR Server only) Support: NVR Server software is VMware ESXi v4.0 or above compliant. Refer to the MAXPRO NVR Server VMware ESXi Specifications document for details on the minimum specifications and performance supported.

MAXPRO NVR Client Only Workstation	
Processor	Intel® Core™ 2 Duo Processor E6750 2.66 GHz or Quad Core Intel® Xeon® E5405 2.0 GHz
System Memory (RAM)	Minimum 4 GB or higher
OS & Application – Hard Disk Drive or Partition	Minimum 100 GB Partition drive or separate hard drive
Graphics Adapter	512 MB or higher Display Card for Dual Monitor – Directx 9 compatible
Network Interface	Minimum – 1 Gigabit network interface card
Optical Drive	DVD-RW
Monitor Resolution	Video resolution 1280x1024 pixels, 32 bit
Keyboard / Mouse	102-key keyboard and mouse
Operating System Options	Microsoft® Windows 7 Professional (32-bit and 64-bit) SP1, Microsoft® Windows Server 2008 R2 SP1

Note: The minimum specifications above are recommended for systems with fixed or PTZ cameras only. For systems with multiple 360 cameras using full immersive experience with dewarping and playback requires superior workstation specifications than above.

SOFTWARE SPECIFICATIONS

Operational – MAXPRO NVR Software	
Image Compressions Supported	MPEG-4, H.264
Supported Honeywell IP Cameras & Encoders	Supports Honeywell's Performance IP, equalP® Series cameras, including high definition. Refer to www.honeywellsecurity.com/hota
Supported Third Party IP Cameras & Encoders	Refer to the Honeywell Open Technology Alliance for a comprehensive list of compatible products to which this device is integrated. www.honeywellsecurity.com/hota
Audio Support	1-way audio for specific IP camera models. Refer to www.honeywellsecurity.com/hota
Maximum Number of Desktop Client Connections	8 remote per server from 4 remote workstations + 1 local on NVR server
Salvo Layouts	Desktop Client - Full, 2x2, 1x5, 3x3, 2x8, 1x12, 4x4. Web Client - 2x2, 1x1, 1x2, 1x3
Picture Controls per Camera	Sharpness, blur, brightness, contrast, hue, saturation, maintain aspect ratio, stretched, original size and picture mirror
OSD	Concealed text option
Playback Controls per Camera	FWD/REV Play x (1, 2, 4, 8, 16) Slow FWD/REV Play x (1/2, 1/4, 1/8)
Search Types	Time/date timeline, time jump FWD/REV, bookmarks, calendar preview, film strip and event search
Recording Schedule	Constant and event based with H/M/D and holiday and exception days
Recording Methods per Camera	Constant, event-based and user activated
Live Settings per Camera	Compression format, resolution and frame rate
Recording Settings per Camera	Same as live or reduced frame rate
Clip Format	WMV with digital certificate for authentication playable with Windows media player
Video Clip Authentication	Digital signature, verification tool provided
Motion Detection Location	Camera based for supported models or Server based (Smart VMD) for all models (except 360 fisheye/panomorph views)
Event Recording	Pre- and post-duration setting
Operator Reporting	Per user, configurator, session and viewer
Event Report	Per camera or recorder events
Operators	1024

ORDERING

MAXPRO NVR Software	
MPNVRSW32	MAXPRO NVR Software – Base Software and License for 32 Channels
MPNVRSW16	MAXPRO NVR Software – Base Software and License for 16 Channels
MPNVRSW8	MAXPRO NVR Software – Base Software and License for 8 Channels
MPNVRSW4	MAXPRO NVR Software – Base Software and License for 4 Channels
MAXPRO NVR Software – Upgrade Licenses	
MPNVRSW1UP	MAXPRO NVR Software – 1 Channel License Upgrade
MPNVRSW4UP	MAXPRO NVR Software – 4 Channel License Upgrade
MPNVRSW8UP	MAXPRO NVR Software – 8 Channel License Upgrade
MPNVRSW16UP	MAXPRO NVR Software – 16 Channel License Upgrade
Software Maintenance & Upgrades Agreements for MAXPRO NVR Software	
SMUMPNVR4	Annual Software Maintenance & Upgrades Agreement – MAXPRO NVR Software System, up to 4 Channels
SMUMPNVR8	Annual Software Maintenance & Upgrades Agreement – MAXPRO NVR Software System, up to 8 Channels
SMUMPNVR16	Annual Software Maintenance & Upgrades Agreement – MAXPRO NVR Software System, up to 16 Channels
SMUMPNVR32	Annual Software Maintenance & Upgrades Agreement – MAXPRO NVR Software System, up to 32 Channels
SMU24MPNVR4	Annual 24/7 Software Maintenance & Upgrades Agreement – MAXPRO NVR Software System, up to 4 Channels
SMU24MPNVR8	Annual 24/7 Software Maintenance & Upgrades Agreement – MAXPRO NVR Software System, up to 8 Channels
SMU24MPNVR16	Annual 24/7 Software Maintenance & Upgrades Agreement – MAXPRO NVR Software System, up to 16 Channels
SMU24MPNVR32	Annual 24/7 Software Maintenance & Upgrades Agreement – MAXPRO NVR Software System, up to 32 Channels

NOTE: Honeywell reserves the right, without notification, to make changes in product design or specifications.

For more information:

www.honeywell.com/security

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