MAXPRO® NVRS OVERVIEW

Network Video Recording Solution



Honeywell's MAXPRO® NVR is a flexible, scalable and open IP video surveillance system, including the MAXPRO NVR (XE, SE, PE, HE) with 8 to 256 channels as well as a software based solution that offers from 4 to 256 channels.

Supporting Honeywell's high definition (HD) cameras and broad integration of third party IP cameras, encoders, and network I/O modules, the MAXPRO NVR family is a powerful HD IP recording and security monitoring system for a variety of applications.

Open – Broad Device Integrations

- Integrates to full line of Honeywell IP cameras and encoders
- Support for ONVIF Profile S, G, T, M, PSIA, real time streaming protocol (RTSP) and multicast standards and Honeywell ISOM secure configuration protocol
- Native device integrations supporting Honeywell's full line of 30 / 35 / 60 / 70 Series camera features: H.265 smart video compression codec and encrypted video stream with TLS 1.2
- Single channel license (8 through 256 channels) for Encoders and multi-imager 360° cameras
- Keyboard control with UltraKey over ethernet

Scalable Integrated Security Solution

- Multiple MAXPRO NVRs deployed for system expansion using a distributed architecture and integrated with the MAXPRO Viewer multi-site software or MAXPRO VMS enterprise video management system with Security Console
- Integration with Honeywell WIN-PAK® and Pro-Watch® Access Control Systems providing an integrated Access Control, Intrusion and Video solution

*With default settings and in a local area network for specific models

Easy to Install and Use - Turnkey Solution

- Pre-installed with all required software and pre-licensed for 8, 16, 24, 32, 48, 64, 96, 128, 192 or 256 channels with no extra channel license costs
- Easy 3-Click* wizard to live video for auto configuration
- Supports simultaneous recording, live monitoring, search and system management for up to 256 IP cameras including high definition formats with easy to use clients
- Easy to use desktop clients, HTML5 web client, and mobile app
- Advanced edge analytics integration support for compatible cameras
- Learn One, Know Them All - Common feature-rich user experience across the MAXPRO NVR Family and MAXPRO VMS helps reduce training time and cost

MARKET OPPORTUNITIES

The continual growth of IP networks and the demand for high definition video 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 an all-IP end-to-end enterprise security system deployment. The 2U rack mount, high performance, and reliability of the MAXPRO NVR PE and HE units make it an ideal solution in installations where digital video is mission critical. The feature rich, easy to install and use MAXPRO NVR SE and XE provide the operational power to address the needs of a wide variety of applications including healthcare clinics, commercial, retail, property management and many others. The whole MAXPRO NVR Series 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

SOFTWARE FEATURES

Multi-Platform Support

- Allows local or remote operations including live and recorded video monitoring, configuration and system management in a single desktop client interface
- Supports HTML5 Web Client for live, playback and PTZ operations
- Support for mobile monitoring clients on iOS® and Android™ Phones and Tablets with the new unified Honeywell Secure Mobile App: login securely with https communication, create favorite salvos (cameras up to 3x3 on mobile devices and 2x4 on phones per salvo), view live and recorded video, perform PTZ control through presets and monitor and manage alarms

Enhanced Monitoring with Desktop Clients

- Support for 16:9, 4:3 and stretched salvos
- Multi-zoom views on HD video and support for Profile cameras to create virtual cameras by digitally zooming into the field of view
- Intuitive video rendering engine that optimizes CPU utilization with variable frame rates
- Enhanced H.264 and H.265 HD video rendering on remote desktop clients with support for monitoring of up to 20 1080p HD cameras in real time (30 fps)/600 fps 1080p HD with no-time lapse using the GPU capabilities of in-built processor graphics with 6th generation and newer Intel® Core™ Processors for client systems. Up to 4 1080p HD @ 30 fps/120 fps on local client
- Quick camera drag-and-drop connection for seamless live view experience
- 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
- Video Surround feature simplifies the process of tracking subjects through a set of surrounding cameras
- Support for 3D Positioning to allow the operator to pan, tilt and zoom into a specific region of interest efficiently by just clicking the live view window

Reduce Overheads with Flexible Streaming Options

- RTSP live streams and recorded video to support platform integrations in simplified manner
- Multi-stream support - Support multiple streams from cameras with varying resolutions and frame rates for live, recording, low bandwidth desktop clients, web clients and mobile apps
- Support for auto switching of streams utilized by the client with multi-stream cameras, saving workstation hardware cost by displaying more cameras simultaneously with lower resolution streams instead of the primary HD streams
- Support for On-Demand Live Streaming and Event Recording to save connectivity costs by stopping camera streaming to the NVR when no NVR clients request live viewing and no events occur
- Network throttling options for optimized streaming and client rendering under low bandwidth without interrupting critical business data transfers in the same network

Efficient Investigation with Smart Search and Playback

- Fast search by date/time, enhanced time line, time jump, bookmarks, SMART Motion search, 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
- Smooth reverse playback for real-time investigation of incidents
- SMART Motion search – Fast and efficient forensic search and investigation for objects/motion on recorded video using Honeywell SMART motion detection Analytics algorithms on the Client PC without impacting the NVR Server load
- Capture and export clips and still images in simple .wmv, .asf, .mpvc , smpvc and .bmp formats. Clips (.wmv) signed with digital signature for authentication
- MAXPRO Video Container (.mpvc) , Secure MAXPRO Video Container (.smpvc) format support - only playable in MAXPRO desktop clients and standalone Clip Player, quicker exports of raw video and support for estimating clip size and split to multiple clips to ensure clip storage media matches, include clip player with exported clip for easier review of video evidence and efficient investigation
- Clip Player - Portable standard secure player for archived and exported clips (*.mpvc , *.smpvc), 360 camera de-warping and 2x2 Salvo support, Smooth playback support with up to 256x review speed, No software installation required to run on a Windows PC, option to include with clip export

React Fast and Protect your Assets

- 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
- Annotation with bounding boxes on objects detected by edge analytics from Honeywell cameras in both live view and playback for visual notification and verification
- 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
- Email notification on camera, system and operator events

High Performance 64-bit Recording Engine and Edge Storage

- Separate event video, continuous recording and archived video retention times
- Video Archival - Archive large amounts of recorded video data for long term storage either scheduled or manually, review through NVR desktop client or standalone Clip Player
- Support for scheduled backfilling of the recordings from the edge storage to the NVR using ONVIF Profile G for robust recording against temporary network failure
- 1+1/N+M recorder failover and failback automatically or manually with MAXPRO VMS with up to 128CH
- Robust indexing system, data integrity service to mitigate environmental errors for enhanced recording reliability

Efficient Site Management with Intuitive User Interface

- Enhanced camera configuration and discovery workflow reduces over-configuration. The NVR System Load and Storage Calculator ensures the system is configured to meet retention requirements
- Status Monitor and System Health Visuals - quickly review camera and all MAXPRO NVRs recording status from any workstation or PC in the network
- Role-based operator privileges supporting Windows and local users
- Easy navigation with Ultrakey keyboard over Ethernet
- Event history and operator log reporting with export to PDF, Crystal Reports, Excel or Word
- Local and multi-language support
- Advanced security features: secure communication between NVR and its clients - NVR client, VMS server/clients. HTTPS login for Web client and Mobile Apps
- Ability to perform bulk configuration of multiple camera parameters such as Frame Rate, Resolution, Record/Archive Settings, etc.
- Ability to import based on excel file to reduce time to configure. NVR also support exporting in excel file for easy management for installers

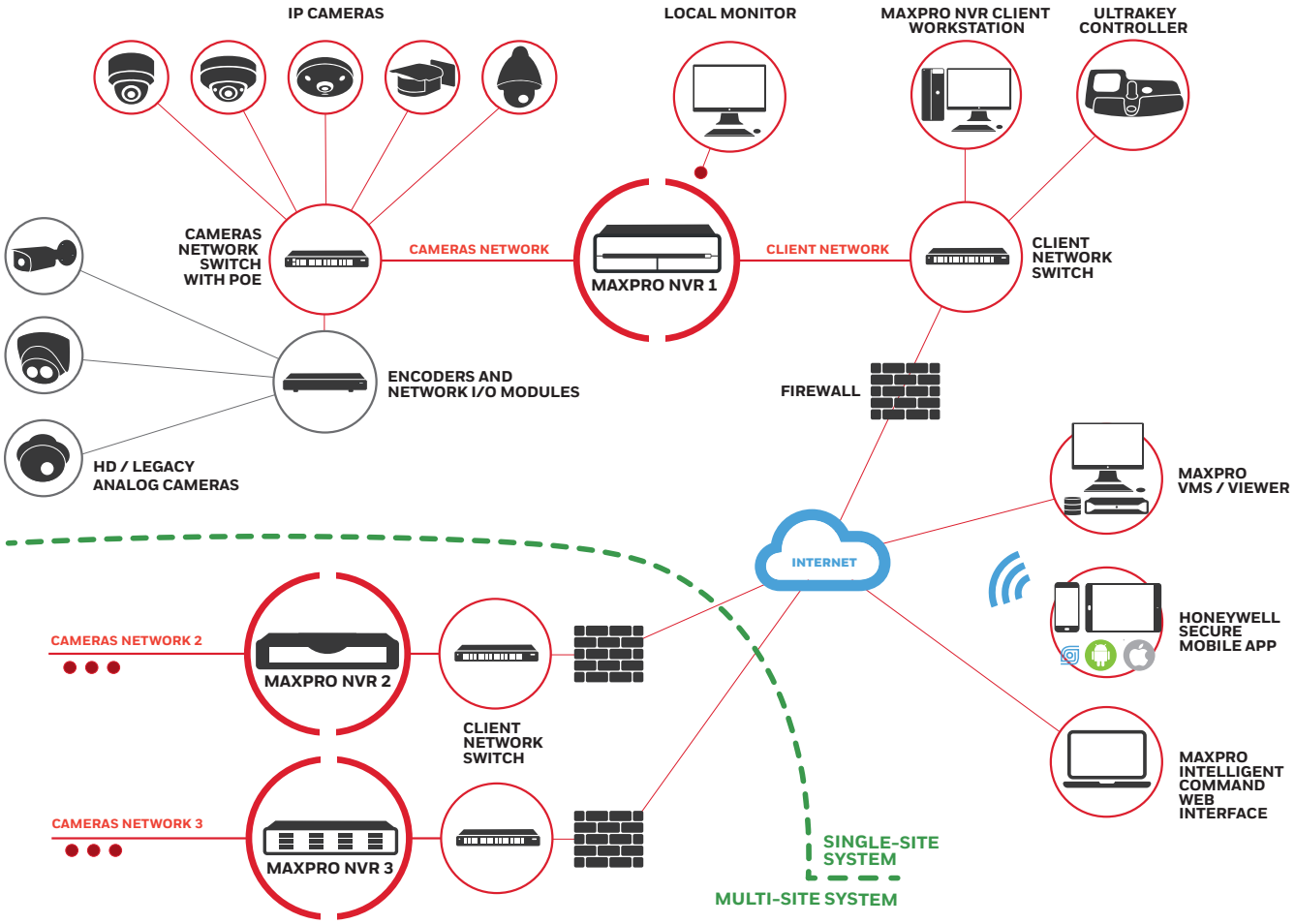
TABLE 1. MAXPRO NVR Desktop Client Only Workstation—Specifications

	With GPU Rendering Capability*		Without GPU Rendering Capability
	Minimum	Recommended	Recommended
PERFORMANCE CONFIGURATION	Up to 13 1080p HD Cameras, 1 Monitor (390fps @1080p HD)	Up to 20 1080p HD cameras, 2 Monitors (600fps @1080p HD)	Up to 9 HD Cameras (1 selected panel only, Throttle Frame Rate setting enabled)
PROCESSOR	Intel® Core™ i5-4460 or equivalent 4th generation Intel® Core™ Processors for client systems	Intel® Core™ i7-10700 or equivalent 10th generation Intel Core Processors	Intel® Core™ 2 Duo Processor E6750 2.66 GHz or Quad Core Intel® Xeon® E5405 2.0 GHz
GRAPHICS ADAPTER	In-built Processor Graphics (GPU):Intel® HD Graphics 530, 630, 4600, or equivalent		512 MB or higher Display Card (Optional)
SYSTEM MEMORY (RAM)	16 GB		4 GB
OS & APPLICATION – HARD DISK DRIVE OR PARTITION	Minimum 100 GB Partition drive or separate hard drive		
NETWORK INTERFACE	Minimum – 1 Gigabit network interface card		
OPERATING SYSTEM	Microsoft Windows 10 (64 bit) / Microsoft Windows 11 (64 bit)		Microsoft Windows 10 (64 bit) / Microsoft Windows 11 (64 bit)
OPTICAL DRIVE	DVD-RW		
MONITOR RESOLUTION	Video resolution 1280x1024 pixels, 32 bit		
KEYBOARD/MOUSE	102-key keyboard and mouse		

NOTE: The performance specifications above are recommended for systems with fixed or PTZ cameras only. Oncam Grandeye 360 cameras are not supported with GPU rendering and use CPU rendering by default. On Windows 10 workstations with Intel GPU and any additional graphics cards, at least one monitor should be connected to the motherboard monitor output. For detailed support on GPU and cameras support, please refer to the camera compatibility sheet.

* - H.265 cameras are supported with GPU rendering only with v4.5 or newer version.

MULTI-SITE SYSTEM DIAGRAM



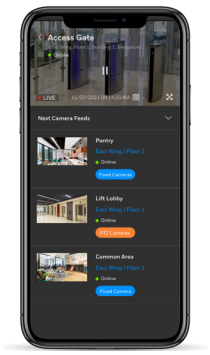
MAXPRO® NVR Overview

MAXPRO NVRS – PART NUMBER LOOKUP

HNMPE 64 E 18 T 8

	MODEL	# OF CHANNELS	HARDWARE	TOTAL RAW STORAGE SIZE	HDD SIZE
MAXPRO NVR XE	HNMXE	8, 16, 24	Rev E unit	4, 8, 12, 18, 22 TB	4, 8, 12, 18, 22 TB
MAXPRO NVR SE	HNMSE	32, 48, 64, 96	Rev E unit	8, 16, 24, 32, 48, 36, 54, 66, 72, 88 TB	8, 12, 18, 22 TB
MAXPRO NVR PE	HNMPE	32, 64, 96, 128, 192	Rev E unit	16, 32, 48, 64 96, 120, 144, 180, 216, 220, 264 TB	8, 12, 18, 22TB
MAXPRO NVR HE	HNMHE	64, 96, 128, 192, 256	Rev E unit	64, 128, 160, 192, 240, 360, 440 TB	8, 12, 18, 22TB
MAXPRO NVR Software	MPNVRSW	4, 8, 16, 24, 32, 48, 64, 96, 128, 192, 256	-	-	-

DOWNLOAD MOBILE APP



HONEYWELL SECURE

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

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For more information
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