

# MAXPRO® NVR SOFTWARE

Network Video Recording Solution



MAXPRO NVR SERVER – VERSION 7.9 FOR 8 TO 24 CHANNELS	
PROCESSOR	Intel® Core™ i5-7500, 3.4 GHz or higher
SYSTEM MEMORY (RAM)	Minimum 16GB or higher
OS & APPLICATION – HARD DISK DRIVE OR PARTITION	Minimum 200 GB Partition drive or separate hard drive
GRAPHICS ADAPTER	Minimum In-built Processor Graphics (GPU):Intel® HD Graphics 630 or equivalent for local client GPU rendering support
NETWORK INTERFACE	Minimum - 2 x 1 GBE network interface card
VIDEO STORAGE DRIVE	Video rated or Enterprise drive, 7200 RPM SATA/SAS recommended
MONITOR RESOLUTION	Video resolution 1280x1024 pixels or higher, 32 bit
KEYBOARD / MOUSE	102-key keyboard and mouse
OPERATING SYSTEM COMPATIBILITY	Microsoft® Windows 10, Windows 10 IoT Enterprise for Embedded Systems, Windows 11, Windows Server 2019, 2022
DATABASE	Microsoft® SQL Server® 2019 Express is automatically installed while installing MAXPRO NVR Server
SUPPORTED PERFORMANCE – 64-BIT WINDOWS OS	
RECORDING AND MONITORING PERFORMANCE	Up to 24 channels with 720 fps @ 4CIF/VGA or 720 fps @ 720p HD or 480 fps @ 1080p (5.3 Mbps bitrate) HD. 1-way audio for up to 8 or 16 IP channels. Network bandwidth/throughput supported per NVR with Incoming: 128 Mbps, Outgoing:256 Mbps providing a Total: 384 Mbps. Rendering performance using GPU of up to 4 1080p HD @ 30 fps / 120 fps on local client. Note: Oncam Grandeye 360 cameras are not supported with GPU rendering and use CPU rendering by default.
SERVER BASED VMD (SMART VMD) PERFORMANCE – CHANNELS SUPPORTED	All 8 or 16 or 24 channels supported at 480 fps @ 4CIF/VGA or 480 fps @ 720p HD or 480 fps @ 1080p HD or total 32 Megapixel.
MAX VIDEO STREAMS SUPPORT	Playback streams consumed are per playback stream being viewed and each playback stream being viewed consumes 1 additional stream. Desktop Client: Live - 256 streams, Playback/Video retrieval sessions - 32, Sync playback - 9 streams 256 live streams limit excludes 1 stream used per camera if SMART VMD is enabled. Maximum live streams per camera is 15 with SMART VMD enabled. Mobile App: 16 streams of 1080p HD @ 5 fps each. Note: During archival operations, maximum no of playback streams recommended from Desktop Client and Web Client is 16 streams.
ARCHIVAL PERFORMANCE	8 channels @ 4 Mbps / 32 Mbps total archival bandwidth
MULTI-STREAM PERFORMANCE	Support for configuring 1 preferred stream for continuous recording and 2 additional stream for live video / motion based recording per camera, subject to overall bandwidth / throughput.

MAXPRO NVR SERVER – VERSION 7.9 UP FOR 32 TO 256 CHANNELS	
PROCESSOR	Xeon E-2356G or higher for up to 96 Channels, 1x Xeon Silver 4310 or higher for 192 Channels, 2x Xeon Silver 4310 or higher for 256 Channels
SYSTEM MEMORY (RAM)	Minimum 16 GB or higher for up to 96 Channels, minimum 32GB for 192 Channels, 64GB for 256 Channels
OS & APPLICATION – HARD DISK DRIVE OR PARTITION	Minimum 200 GB Partition drive or separate hard drive
GRAPHICS ADAPTER	Minimum In-built Processor Graphics (GPU):Intel® HD Graphics 630 or equivalent for local client GPU rendering support
NETWORK INTERFACE	Minimum - 4 x 1 GBE network interface card for up to 192 channels; for up to 256 channels 2 x 10 GBE add-on
VIDEO STORAGE DRIVE	Video rated or Enterprise drive, 7200 RPM SATA/SAS recommended
MONITOR RESOLUTION	Video resolution 1280x1024 pixels or higher, 32 bit
KEYBOARD/MOUSE	102-key keyboard and mouse
OPERATING SYSTEM COMPATIBILITY	Microsoft® Windows 10, Windows 10 IoT Enterprise for Embedded Systems, Windows 11, Windows Server 2019, 2022
DATABASE	Microsoft® SQL Server® 2019 Express is automatically installed while installing MAXPRO NVR Server
SUPPORTED PERFORMANCE – 64-BIT WINDOWS OS	
RECORDING AND MONITORING PERFORMANCE	RAID/JBOD Video Storage with 6 GB/s SAS/SATA RAID Card: 256 channels with 7680 fps @ 4CIF/VGA or 7680 fps @ 720p HD or 7680 fps @ 1080p (8 Mbps bit-rate) HD. 1-way audio for up to 256 IP channels. Network bandwidth/throughput: 3096 Mbps. Rendering performance using GPU of up to 4 1080p HD @ 20 fps / 80 fps on local client. Note: Oncam Grandeye 360 cameras are not supported with GPU rendering and use CPU rendering by default.
SERVER BASED VMD (SMART VMD) PERFORMANCE – CHANNELS SUPPORTED	RAID/JBOD Video Storage with 6 GB/s SAS/SATA RAID Card: Channels at max fps-64 ch at 1920 fps @ 4CIF/VGA or 64 ch at 1920fps @ 720p or 64 ch at 1920fps @ 1080p or total 128 Megapixel. All Channels at fps-64 ch at 1920 fps @ 4CIF/VGA or 1920 fps @ 720p or 1920 fps @ 1080p or total 128 Megapixel. Smart VMD is not recommended when more than 64 cameras are connected to the NVR
MAX VIDEO STREAMS SUPPORT	Web Client: Live – 64 streams, Playback - 32 streams. 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 - 256 streams, Playback/Video retrieval sessions - 32, Sync playback - 9 streams. 256 live streams limit excludes 1 stream used per camera if SMART VMD is enabled. Maximum live streams per camera is 15 with SMART VMD enabled. Mobile App: 16 streams of 1080p HD @ 5 fps each. Note: During archival operations, maximum no of playback streams recommended from Desktop Client and Web Client is 16 streams.
ARCHIVAL PERFORMANCE	RAID/JBOD Video Storage with 12 GB/s SAS/SATA RAID Card: 64 channels @ 2 Mbps / 128 Mbps total archival bandwidth
MULTI-STREAM PERFORMANCE	Support for configuring 1 preferred stream for continuous recording and 2 additional stream for live video / motion based recording per camera, subject to overall bandwidth / throughput.

# MAXPRO® NVR Software

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SOFTWARE SPECIFICATIONS	
OPERATIONAL – MAXPRO NVR SOFTWARE	
IMAGE COMPRESSIONS SUPPORTED	MJPEG, MPEG-4, H.264, H.265
SUPPORTED HONEYWELL IP CAMERAS & ENCODERS	Honeywell 30 / 35 / 60 / 70 Series IP cameras
SUPPORTED THIRD PARTY IP CAMERAS & ENCODERS	Refer to the MAXPRO® NVR Compatibility on our website for a comprehensive list of compatible products to which this device is integrated.
AUDIO SUPPORT	Bi-directional audio is supported
MAX. NUMBER OF DESKTOP CLIENT CONNECTIONS	Desktop Client - 18 remote per server from 9 remote workstations + 1 local on NVR server.
SALVO LAYOUTS	Desktop Client - Full, 2x2, 1x5, 3x3, 2x8, 1x12, 4x4. Web Client - 2x2, 1x1, 1x2, 1x3. Mobile app (Phone) - 3x3, 2x2, 2x4, 1x2, 1x1.
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 / CAMERA - DESKTOP CLIENT	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, event search and SMART Motion Search
RECORDING SCHEDULE	Continuous and event based with H/M/D and holiday and exception days
RECORDING METHODS PER CAMERA	Continuous, 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	Honeywell MPVC and SMPVC playable with standalone MAXPRO Clip Player for faster and secure exports. WMV with digital certificate for authentication playable with Windows media player. ASF for faster exporting of longer than an hour backup clips in native compression format.
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 operators across all recorders

ORDERING	
MAXPRO NVR SOFTWARE	
HNMNVRSW4	MAXPRO NVR Base Software and License for 4 Channels
HNMNVRSW8	MAXPRO NVR Base Software and License for 8 Channels
HNMNVRSW16	MAXPRO NVR Base Software and License for 16 Channels
HNMNVRSW24	MAXPRO NVR Base Software and License for 24 Channels
HNMNVRSW32	MAXPRO NVR Base Software and License for 32 Channels
HNMNVRSW48	MAXPRO NVR Base Software and License for 48 Channels
HNMNVRSW64	MAXPRO NVR Base Software and License for 64 Channels
HNMNVRSW96	MAXPRO NVR Base Software and License for 96 Channels
HNMNVRSW128	MAXPRO NVR Base Software and License for 128 Channels
HNMNVRSW192	MAXPRO NVR Base Software and License for 192 Channels
HNMNVRSW256	MAXPRO NVR Base Software and License for 256 Channels
MAXPRO NVR SOFTWARE – UPGRADE LICENSES	
HNM01UP *	NVR 1 Channel License Upgrade
* Note: When ordering channel license upgrades, order above part# and total quantity of channels needed per NVR	
3RD PARTY I/O MODULE INTEGRATION	
HNMNVR3PIO	Network I/O Module
SOFTWARE SUPPORT AGREEMENTS FOR MAXPRO NVR	
SSAMPNVRCH	Annual Software Support Agreement – MAXPRO NVR System with VMS support included, Per Channel.

### For more information

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HSV-MPSW-10-IN(0424)DS-ZD  
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