

MAXPRO® NVR SE

32/48/64-Channel NVR



OPERATIONAL	
MAXPRO NVR SOFTWARE - VERSION 6.3 OR ABOVE	
DATABASE	Microsoft® SQL Server® 2017 Express
OPERATING SYSTEM	Windows 10 IoT Enterprise for Embedded Systems
IMAGE COMPRESSIONS SUPPORTED	MJPEG, MPEG-4, H.264, H.265
SUPPORTED HONEYWELL IP CAMERAS AND ENCODERS	Supports Honeywell's Performance IP, equalP® Series, 30 Series IP cameras. Refer to: https://hwl.co/hota/
SUPPORTED THIRD PARTY IP CAMERAS AND ENCODERS	Refer to the MAXPRO NVR Compatibility on https://hwl.co/hota/ for a comprehensive list of compatible products to which this device is integrated.
AUDIO SUPPORT	1-way audio for specific IP camera models. Refer to: https://hwl.co/hota/
MAXIMUM NUMBER OF DESKTOP CLIENT CONNECTIONS	Desktop Client - 38 per unit from 19 remote workstations + 2 local on NVR
SALVO LAYOUTS	Desktop Client - Full, 2x2, 1x5, 3x3, 2x8, 1x12, 4x4. Web Client - 2x2, 1x1, 1x2, 1x3. Mobile app (Phone) - 2x2, 2x4, 1x2, 1x1. Mobile app (Tablet) - 3x3, 2x2, 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 PER 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 / CAMERA	Compression format, resolution and frame rate
RECORD SETTINGS PER CAMERA	Same as live or reduced frame rate
CLIP FORMAT	Honeywell MPVC 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

OPERATIONAL	
MAXPRO NVR SE HARDWARE	
PROCESSOR	Intel® Xeon™ W-2235, 3.8 GHz
PROCESSOR CHIPSET	Intel® C422
MEMORY	16 GB (2x 8 GB) DDR4
OS DRIVE	256 GB M.2 SSD OS drive
STORAGE CAPACITIES	5 bays with max 12 TB SATA hard drives each
RAID CONTROLLER	Broadcom MegaRAID® 9460-16i controller with 4GB cache memory
RAID LEVELS	Support for 0, 1, 5, 6, 10, 50, and 60
NETWORK	Two 1 GB Ethernet
FRONT AND REAR PANEL CONNECTIONS	
PS2	Rear: 1 x Keyboard, 1 x Mouse
USB	Front: 2x USB 3.1 Gen1 Type A, 2x USB 3.1 Gen1 Type C Rear: 6x USB 3.1 Gen1 Type A
NETWORK	2x RJ45 (Rear)
MONITOR OUTPUT	3 x mDP 1.4 (Rear)
AUDIO	1x Universal Audio Jack (Front) 1x Audio Line out, 1x Audio Line in/Microphone (Rear)
ELECTRICAL	
INPUT VOLTAGE	100-240V ~ 50/60 Hz
POWER SUPPLY	Single 950W
POWER CONSUMPTION	Max 325 W
MECHANICAL	
DIMENSIONS (W X H X D)	6.95 in x 16.45 in x 20.40 in (176.5 mm x 417.9 mm x 518.2 mm)
WEIGHT	34.0 lbs (15.4 kg) excluding HDD
ENVIRONMENTAL	
TEMPERATURE	Operating: 5° to 35° C (41° to 95° F) Storage: -40° to 65° C (-40° to 149° F)
RELATIVE HUMIDITY	Operating: 10% - 85%, non-condensing
REGULATORY	
EMISSIONS	CE EN 55032:2012, EN 55032:2015, EN 55024:2010 +A1:2015, EN 61000-3-2:2014 (Class D), EN 61000-3-3:2013; FCC Part 15, Subpart B, Class B
SAFETY	CE EN 60950-1:2006 +A1:2010 +A2:2013 +A11:2009 +A12:2011, EN 62368-1:2014; UL 62368-1, CAN/CSA-C22.2 No.62368-1
RoHS	CE EN 50581:2012

RECORDING AND REMOTE MONITORING PERFORMANCE	
1920 fps @ 4CIF/VGA or 1920 fps @ 720p HD or 1600 fps @ 1080P Full HD. Network bandwidth/t throughput - Incoming: 256 Mbps, Outgoing: 320 Mbps, Total: 576 Mbps. Rendering performance using GPU of up to 4 1080p HD @ 30 fps / 2 4K @ 30fps on local client. Note: Oncam Grandeye 360 Cameras are not supported with GPU rendering and use CPU rendering by default.	

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 number of playback streams recommended from Desktop Client and Web Client is 16 streams.
SERVER BASED VMD (SMART VMD) PERFORMANCE - CHANNELS SUPPORTED	Channels at max fps: 64 ch at 1920 fps @ 4CIF/VGA or 64 ch at 1920 fps @ 720p or 64 ch at 1600 fps @ 1080p or total 100 Megapixel. All channels at fps: 64 ch at 1920 fps @ 4CIF/VGA or 1920 fps @ 720p or 1600 fps @ 1080p or total 128 Megapixel.
ARCHIVAL PERFORMANCE	16 channels @ 4 Mbps bitrate each / 64 Mbps total archival throughput capacity. Outgoing archival storage throughput of 200 Mbps.
MULTI-STREAM PERFORMANCE	Support for maximum 128 streams. Support for configuring 1 preferred stream for continuous recording and 1 preferred stream for live video / motion based recording per camera.



MAXPRO® NVR SE (Standard Edition)

32/48/64-Channel Network Video Recorder (NVR)

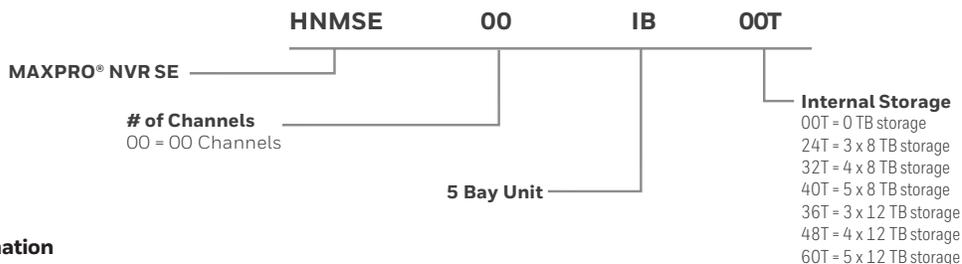
HARDWARE FEATURES

- Provides the processor and storage enclosure in one chassis, resulting in both space and cost savings
- Record and monitor up to 64 channels at 1920 fps @ 4CIF/VGA or 1920 fps @ 720p HD or 1600 fps @ 1080p Full HD (4 Mbps bitrate) per MAXPRO NVR SE. Network bandwidth/throughput supported per NVR with Incoming: 256 Mbps, Outgoing: 320 Mbps; Total: 576 Mbps.
- Archival support of 16 channels @ 4 Mbps bitrate each/64 Mbps total archival throughput capacity per MAXPRO NVR SE, with outgoing archival storage throughput of 200 Mbps
- Multi-stream support with maximum 128 streams per MAXPRO NVR SE. Support for configuring 1 preferred stream for continuous recording and 1 preferred stream for live video / motion based recording per camera
- Supports One-way Audio (for specific IP cameras) with live, playback and clip export on desktop clients for up to 64 IP channels
- Hardware RAID controller for video storage with support for 0, 1, 5, 6, 10, 50, and 60 RAID levels.
- M.2 SSD with operating system and 5 HDD bays for video storage (optional 8 TB or 12 TB drives)
- Internal storage capacity up to 60 TB raw storage
- Includes dual 1 GB Network ports optimized to separate record and viewing data to ensure recording and smooth playback even with multiple client connections
- Chassis intrusion switch with AC power interlock. System powers down when right side cover is opened.

ORDERING	
MAXPRO NVR SE	MAXPRO NVR – CHANNEL UPGRADE LICENSES
HNMSE00IB00T	0 Channel, No HDD
HNMSE00IB24T	0 Channel, 3 x 8 TB, RAID 5
HNMSE00IB32T	0 Channel, 4 x 8 TB, RAID 5
HNMSE00IB40T	0 Channel, 5 x 8 TB, RAID 5
HNMSE00IB36T	0 Channel, 3 x 12 TB, RAID 5
HNMSE00IB48T	0 Channel, 4 x 12 TB, RAID 5
HNMSE00IB60T	0 Channel, 5 x 12 TB, RAID 5
MAXPRO NVR – SOFTWARE LICENSES	
MPNVRSW4	MAXPRO NVR Software – Base Software and License for 4 Channels
MPNVRSW8	MAXPRO NVR Software – Base Software and License for 8 Channels
MPNVRSW16	MAXPRO NVR Software – Base Software and License for 16 Channels
MPNVRSW32	MAXPRO NVR Software – Base Software and License for 32 Channels
MPNVRSW48	MAXPRO NVR Software – Base Software and License for 48 Channels
MPNVRSW64	MAXPRO NVR Software – Base Software and License for 64 Channels
MPNVRSW1UP	MAXPRO NVR Software – 1 Channel License Upgrade to add support for up to 64 Channels per NVR
MPNVRSW4UP	MAXPRO NVR Software – 4 Channel License Upgrade to add support for up to 64 Channels per NVR
MPNVRSW8UP	MAXPRO NVR Software – 8 Channel License Upgrade to add support for up to 64 Channels per NVR
MPNVRSW16UP	MAXPRO NVR Software – 16 Channel License Upgrade to add support for up to 64 Channels per NVR
MPNVRSW32UP	MAXPRO NVR Software – 32 Channel License Upgrade to add support for up to 64 Channels per NVR

Note: The above storage capacity is for reference purpose. The unit shall be delivered with RAID5 configuration and actual storage availability shall differ.

MAXPRO NVR SE – PART NUMBER LOOKUP



For more information

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