MAXPRO®
NVR SE

16/32/64–Channel NVR

OPERATIONAL	
MAXPRO NVR SOFTWARE - VERSION 6.7 OR ABOVE	
DATABASE	Microsoft® SQL Server® 2019 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, equIP® Series, 30 Series IP cameras. Refer to our website
SUPPORTED THIRD PARTY IP CAMERAS AND 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	2-way audio for specific IP camera models.
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	Constant 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® Core™ i7-7700, 3.6 GHz, Intel HD Graphics 630
MEMORY	16 GB DDR4
POWER SUPPLY	Single 400 W
OS PARTITION	250 GB M.2 SSD OS drive
STORAGE CAPACITIES	2 TB to 60 TB
STORAGE HARD DRIVE OPTIONS	6 bays - all field-upgradable, 2, 4, 6, 8 or 10 TB SATA hard drives
OPTICAL	22x DVD-RW
NETWORK	Two 1 GB Ethernet included
CHASSIS WITH LOCKING BEZEL	2U 6 bay including rack mount kit
REAR PANEL CONNECTIONS	
MOUSE / KEYBOARD	2x USB
USB	1x Front, 6x Back (including 4x USB 3.0)
NETWORK	2x RJ45
MONITOR OUTPUT	Dual monitor support -2 HDMI, 1 DVI-D, 1 DVI-I
ELECTRICAL	
INPUT VOLTAGE	100-240V ~ 50/60 Hz - max 400W, Auto Switching
POWER DISSIPATION	Average BTU rating = 569 BTU/HR
MECHANICAL	
CONSTRUCTION	Housing: Steel chassis Finish: Black matte paint
DIMENSIONS (W X H X D)	17.2" x 3.5" x 26" (437 mm x 89 mm x 660 mm)
WEIGHT	Unit: 43 lbs (19.5kg)
ENVIRONMENTAL	
TEMPERATURE	Operating: 5°C to 40°C (40°F to 104°F) Storage: -10°C to 65°C (14°F to 150°F)
RELATIVE HUMIDITY	0% - 90%, non-condensing
REGULATORY	
EMISSIONS	FCC Part 15, Subpart B, Class B
SAFETY	ANSI / UL 60950-1; CAN/CSA C22.2 No 60950-1
WARRANTY	
WARRANTY AND ADVANCED REPLACEMENTS	Refer to https://www.security.honeywell.com/resources/warranties
RECORDING AND REMOTE MONITORING PERFORMANCE	

1920 fps @ 4CIF/VGA or 1920 fps @ 720p HD or 1280 fps @ 1080p (4 Mbps bitrate) HD. 1-way audio for up to 64 IP channels. Network bandwidth/throughput - Incoming: 160 Mbps, Outgoing: 280 Mbps,Total: 440 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.

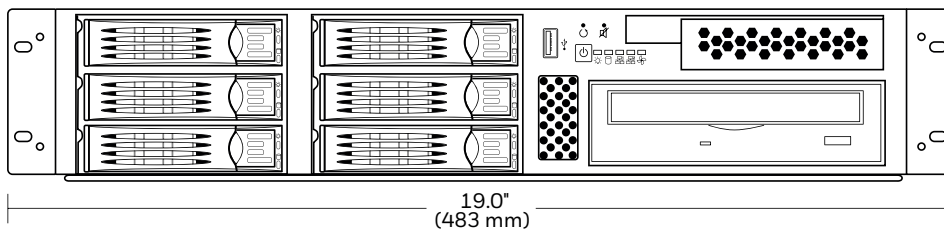|	
MAX VIDEO STREAMS SUPPORT	Web Client: Live - 64 streams, Playback - 32 streams. Note: Live streams consumed are per camera being viewed live and duplicate live views of the same camera in multiple or same web client instance are allowed without consuming additional streams. Playback streams consumed 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 no 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 50 ch at 1280 fps @ 1080p or total 100 Megapixel. All channels at fps: 64 ch at 1920 fps @ 4CIF/VGA or 1920 fps @ 720p or 640 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.

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MAXPRO® NVR SE (Standard Edition)

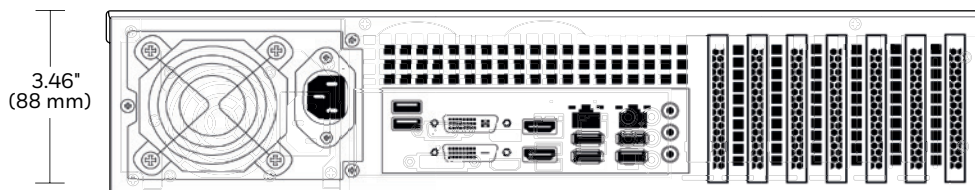16/32/64–Channel Network Video Recorder (NVR)

HARDWARE FEATURES

- Provides the processor and storage enclosure in one chassis, resulting in both space and cost savings
- Rack mountable with 6 removable drives, SATA hard drives used for operating system partition and video storage
- Record and monitor up to 64 channels at 1920 fps @ 4CIF/ VGA
  or 1920 fps @ 720p HD or 1280 fps @ 1080p (4 Mbps bitrate) HD per MAXPRO NVR SE. Network bandwidth/throughput supported per NVR with Incoming: 160 Mbps, Outgoing: 280 Mbps; Total: 440 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

- Includes HDMI, DVI-D and DVI-I ports for dual monitor support
- Supports displaying 16 cameras at one time on the NVR local monitor and rendering performance using GPU of up to 4 1080p HD @ 30 fps/2 4K @ 30 fps on local client
- 1 solid-state drive with operating system and 6 removable bays with storage hard drives (optional 2 TB, 4 TB, 6 TB, 8 TB or 10 TB drives)
- Internal storage capacity from 2 TB to 60 TB
- Includes dual 1 GB Network ports optimized to separate record and viewing data to ensure 100% recording and smooth playback even with multiple client connections
- 2U rack mount form factor with locking front bezel. Rack rails included for use with four post racking systems
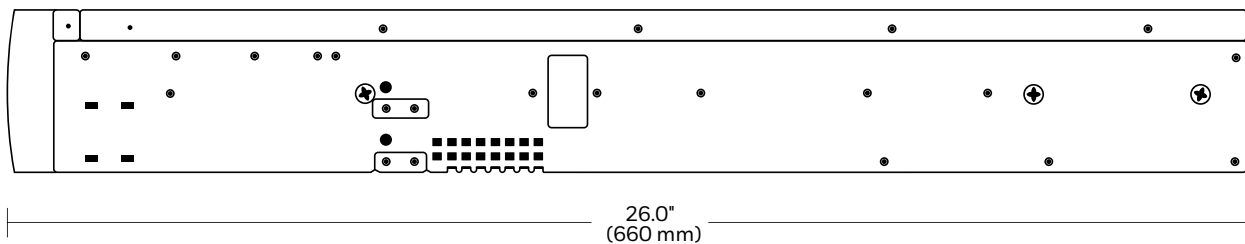
SPECIFICATIONS

Front View

19.0"
(483 mm)

Rear View

3.46"
(88 mm)

Side View

26.0"
(660 mm)

MAXPRO® NVR SE (Standard Edition)

16/32/64-Channel Network Video Recorder (NVR)

ORDERING

MAXPRO NVR SE	
HNMSE16C02T	2 TB, 16 Channel, 1 x 2 TB
HNMSE16C04T	4 TB, 16 Channel, 1 x 4 TB
HNMSE16C08T	8 TB, 16 Channel, 2 x 4 TB
HNMSE16C16T	16 TB, 16 Channel, 4 x 4 TB
HNMSE16C24T	24 TB, 16 Channel, 6 x 4 TB
HNMSE16C36T	36 TB, 16 Channel, 6 x 6 TB
HNMSE16C48T	48 TB, 16 Channel, 6 x 8 TB
HNMSE16C60T	60 TB, 16 Channel, 6 x 10 TB
HNMSE32C02T	2 TB, 32 Channel, 1 x 2 TB
HNMSE32C04T	4 TB, 32 Channel, 1 x 4 TB
HNMSE32C08T	8 TB, 32 Channel, 2 x 4 TB
HNMSE32C16T	16 TB, 32 Channel, 4 x 4 TB
HNMSE32C24T	24 TB, 32 Channel, 6 x 4 TB
HNMSE32C36T	36 TB, 32 Channel, 6 x 6 TB
HNMSE32C48T	48 TB, 32 Channel, 6 x 8 TB
HNMSE32C60T	60 TB, 32 Channel, 6 x 10 TB
HNMSE64C02T	2 TB, 64 Channel, 1 x 2 TB
HNMSE64C04T	4 TB, 64 Channel, 1 x 4 TB
HNMSE64C08T	8 TB, 64 Channel, 2 x 4 TB
HNMSE64C16T	16 TB, 64 Channel, 4 x 4 TB
HNMSE64C24T	24 TB, 64 Channel, 6 x 4 TB
HNMSE64C36T	36 TB, 64 Channel, 6 x 6 TB
HNMSE64C48T	48 TB, 64 Channel, 6 x 8 TB
HNMSE64C60T	60 TB, 64 Channel, 6 x 10 TB

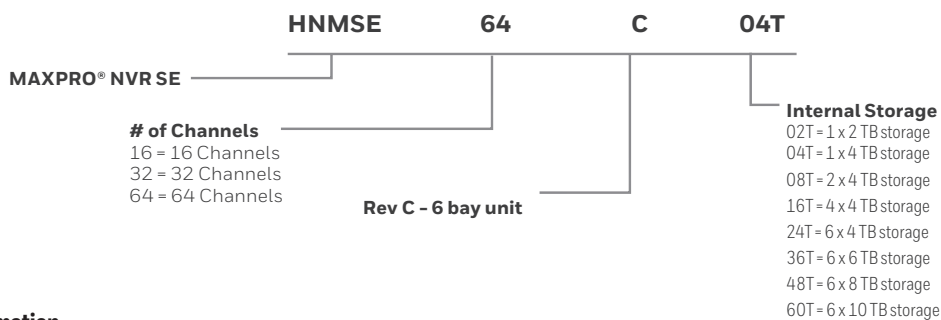| MAXPRO NVR SE – CHANNEL UPGRADE LICENSES	
HNM1632NLIC	MAXPRO NVR – 16 to 32 Ch upgrade Software License
HNM3264NLIC	MAXPRO NVR – 32 to 64 Ch upgrade Software License

ACCESSORIES	
HNMSEBHD1T	1 TB Upgrade Kit, MAXPRO NVR SE, Rev B/C Server
HNMSEBHD2T	2 TB Upgrade Kit, MAXPRO NVR SE, Rev B/C Server
HNMSEBHD3T	3 TB Upgrade Kit, MAXPRO NVR SE, Rev B/C Server
HNMSEBHD4T	4 TB Upgrade Kit, MAXPRO NVR SE, Rev B/C Server
HNMSEBHD6T	6 TB Upgrade Kit, MAXPRO NVR SE, Rev B/C Server

SOFTWARE MAINTENANCE & UPGRADES AGREEMENTS FOR MAXPRO NVR	
SSAMPNVRCH	Annual Software Support Agreement – MAXPRO NVR System with VMS support included, Per Channel

Refer to the storage calculator on www.security.honeywell.com to help determine what size unit to order.

MAXPRO NVR SE – PART NUMBER LOOKUP

HNMSE 64 C 04T

MAXPRO® NVR SE

# of Channels
16 = 16 Channels
32 = 32 Channels
64 = 64 Channels

Rev C – 6 bay unit

Internal Storage
02T = 1 x 2 TB storage
04T = 1 x 4 TB storage
08T = 2 x 4 TB storage
16T = 4 x 4 TB storage
24T = 6 x 4 TB storage
36T = 6 x 6 TB storage
48T = 6 x 8 TB storage
60T = 6 x 10 TB storage

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