5TH GENERATION NETWORK VIDEO RECORDERS

252 TB | 288 TB | 360 TB | 432 TB | 5-YEAR WARRANTY

The fifth-generation Avigilon Network Video Recorder (NVR5) delivers unparalleled, high-performance recording, throughput, data availability, and protection for your Avigilon video security system. Featuring the densest storage capacity Avigilon has to offer on a single NVR, security teams can scale up to petabytes of storage at a single location, with up to 432 TB in storage per NVR. All NVR models come optimized with RAID technology, hot-swappable drives, and a five-year Avigilon warranty with dedicated support to increase system uptime and availability.

FEATURES

FLEXIBLE & SCALABLE TIER-1 STORAGE

NVR5 offers flexible configurations for security teams to cost-effectively scale up to 432 TB in tier 1 storage capacity and tailor it to their unique retention requirements.

LOWER DEPLOYMENT COSTS WITH QUICK & SIMPLE DEPLOYMENT WITH ACC PRE-CONFIGURED

The NVR5 comes pre-configured with ACC software for secure network video recording and management of Avigilon cameras up to 61 MP resolution.

RESPOND FASTER WITH AI-POWERED ANALYTICS SUPPORT

Security teams can respond faster to critical events with the NVR5's seamless support for Avigilon Appearance Search, Facial Recognition, and LPR technologies.

STRENGTHEN CYBERSECURITY

Designed with cybersecurity in mind, the NVR5 comes with a TPM 2.0 module built-in to support hardware Root of Trust authentication and data encryption.

HIGH DATA AVAILABILITY

Reliable storage with RAID-configured redundancy offers a highly available and resilient system that protects your data. All our PRM models include reliable hard drives with RAID 6/60 redundancy to tolerate up to 2/4 hard drive failures.

INCREASE SYSTEM UPTIME & PRODUCTIVITY

Sites that have connected to the cloud and subscribed to advanced system health[1] can take advantage of system health monitoring to increase system availability, streamline maintenance time and minimize on-site service calls.

RESOLVE TECHNICAL ISSUES EXPEDIENTLY WITH A SINGLE-POINT-OF-CONTACT

In addition to lifetime 24/7 Avigilon telephone technical support for the Avigilon End-to-End solution, five-year onsite parts and repair service is also included with 24/7 4-hour response SLA[2].

EASY RECOVERY SOLUTION

Designed with a separate and redundant array of Solid-State Drives for the operating system, with a built-in recovery partition to simplify the recovery process, if needed.

[1] On NVR5 PRM 252-432 TB, ACC 7.14.8 or later is required for full advanced system health functionality.

[2] Warranty coverage and support Service Level Agreement is subject to end user's geographic location. Please refer to https://www.avigilon.com/support/warranty/avigilon for more information.

MOTOROLA SOLUTIONS

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ANALYTICS

AVIGILON APPEARANCE SEARCH™

Quickly locates a specific person or vehicle of interest across an entire site using a sophisticated deep learning AI search engine.

ACC Enterprise required.

LICENSE PLATE RECOGNITION (LPR)

Works with ACC software for accurate license plate capture at a range of distances and speeds. Requires an additional license.

ACC7-LPR license per channel required.

FACE RECOGNITION

Detects matches from managed watchlists to alert operators of people of interest. Requires Appearance Search and an additional license.

ACC7-FACE license required

ACC™ VIDEO MANAGEMENT SOFTWARE

Pre-installed and pre-configured solution for managing multi-megapixel digital IP and analog cameras.

	MAXIMUM SUPPORTED CAMERAS BY FEATURE[1]		NUMBER OF LPR LANES[2]			
MODEL	APPEARANCE SEARCH ONLY[3]	FACE RECOGNITION + APPEARANCE SEARCH[3]	5 FPS (<16 KM/H)	10 FPS (<48 KM/H)	20 FPS (<100 KM/H)	30 FPS (<150 KM/H)
NVR5 PRM (252 288 360 432)	200	50	20	10	5	3

[1] These performance figures are based on validation testing by Avigilon. Assumes appliance-wide average per camera rates of classified objects leaving field of view:
- H5A Cameras - One every second;
- H4A Cameras - One every two seconds.
Additional licenses may be required. For more information, contact Avigilon Sales.

[2] Assumes a 3 MP camera with 1 MP license plate scan area and Frames Per Second (FPS) to recognize license plates up to vehicle speeds in Kilometers Per Hour (KM/H) . Results may vary according to camera mounting parameters. ACC 7.14.10 or later is required.

[3] Requires H5A or H4A cameras. The Avigilon Appearance Search camera support limit does not affect any NVR throughputs for simultaneous recording, playback and live streaming.

SPECIFICATIONS

SYSTEM		
Capacity		252 TB 288 TB 360 TB 432 TB
Avigilon Control Center™ Edition		Core, Standard and Enterprise compatible
Network Video Streaming Performance (10 GbE - Multiple Connections)	Recording Rate:	Up to 1500 Mbps
	Playback Rate:	Up to 600 Mbps[1]
Network Video Streaming Performance (1 GbE - Multiple Connections)	Recording Rate:	Up to 800 Mbps
	Playback Rate:	Up to 800 Mbps
Operating System		Microsoft Windows Server 2019 - 16 core
Hard Disk Drive Configuration	Video Data:	RAID 60 Up to 28 x 3.5", hot-swappable
	Operating System:	2 x 480 GB M.2 SSD Drives, RAID 1
Recording Storage Capacity		Up to 504 TB raw; 432 TB effective (RAID 60)
Network Interface		2 x 10 GbE SFP+ ports (transceivers not included) 4 x 1 GbE RJ-45 ports
Memory		8 x 8 GB DDR4
Processor		2 x Intel® Xeon ®
Video Outputs		1 x VGA
Local Viewing		No
Out-of-band Management		iLO Advanced

[1] The maximum playback throughput for Premium can be increased by reducing the recording throughput.

MECHANICAL	
Form Factor	2U Rack Mount Chassis
Dimensions (L x W x H)	87.5 mm x 448.0 mm x 837.9 mm 3.44" x 17.63" x 32.98"
Weight	252 TB: 48 kg (107 lbs) 288 TB: 50 kg (110 lbs) 360 TB: 53 kg (116 lbs) 432 TB: 55 kg (122 lbs)

ELECTRICAL	
Power Input	100 to 240 VAC, 50/60 Hz, auto-switching
Power Supply	Dual 1000 W redundant (1+1), hot-swappable
Power Consumption	Maximum 580 W (1978 BTU/h)
Power Efficiency	80 PLUS Platinum, ENERGY STAR 2.0

ENVIRONMENTAL	
Operating Temperature	10°C to 35°C (50°F to 95°F)
Storage Temperature	-30°C to 60°C (22°F to 140°F)
Operating Humidity	8% to 90% relative humidity with 28°C (82.4°F) maximum dew point

ENVIRONMENTAL	
Storage Humidity	5% to 95% RH with 38.7°C (101.7°F) maximum dew point. Atmosphere must be non-condensing at all times
Operating Vibration	0.15 Grms at10 Hz to 300 Hz
Storage Vibration	0.5 Grms at 10 Hz to 500 Hz
Operating Shock	2 G
Storage Shock	15 G
Operating Altitude	3,050 m (10,000 ft)
Storage Altitude	9,144 m (30,000 ft)

CERTIFICATIONS	
Certifications/Directives	UL, cUL, CE, RCM, BSMI, EAC, KC, NRCS, VCCI, RoHS, WEEE
Safety	UL/CSA/EN/IEC 62368-1
Electromagnetic Emissions	CFR Title 47, FCC Part 2, 15 Class A, ICES-003(A), EN 55032 Class A, EN 61000-3-2, EN 61000-3-3
Electromagnetic Immunity	EN 55024
Warranty	5-year 4-hour mission critical warranty with onsite parts delivery service.

SUPPLIED ACCESSORIES	
Rack Rail System	Sliding rail system with cable management arm. Supports: • Tool-less mounting in 19”-wide EIA-310-E compliant square hole and unthreaded round-hole 4-post racks • Tooled mounting in threaded hole 4-post racks
Bezel	1, front
Power Cords	4 total: 2 x C13 / C14 2 x country variants (from options below)

(NA) NEMA 5-15P / C13

(UK) BS1363 / C13

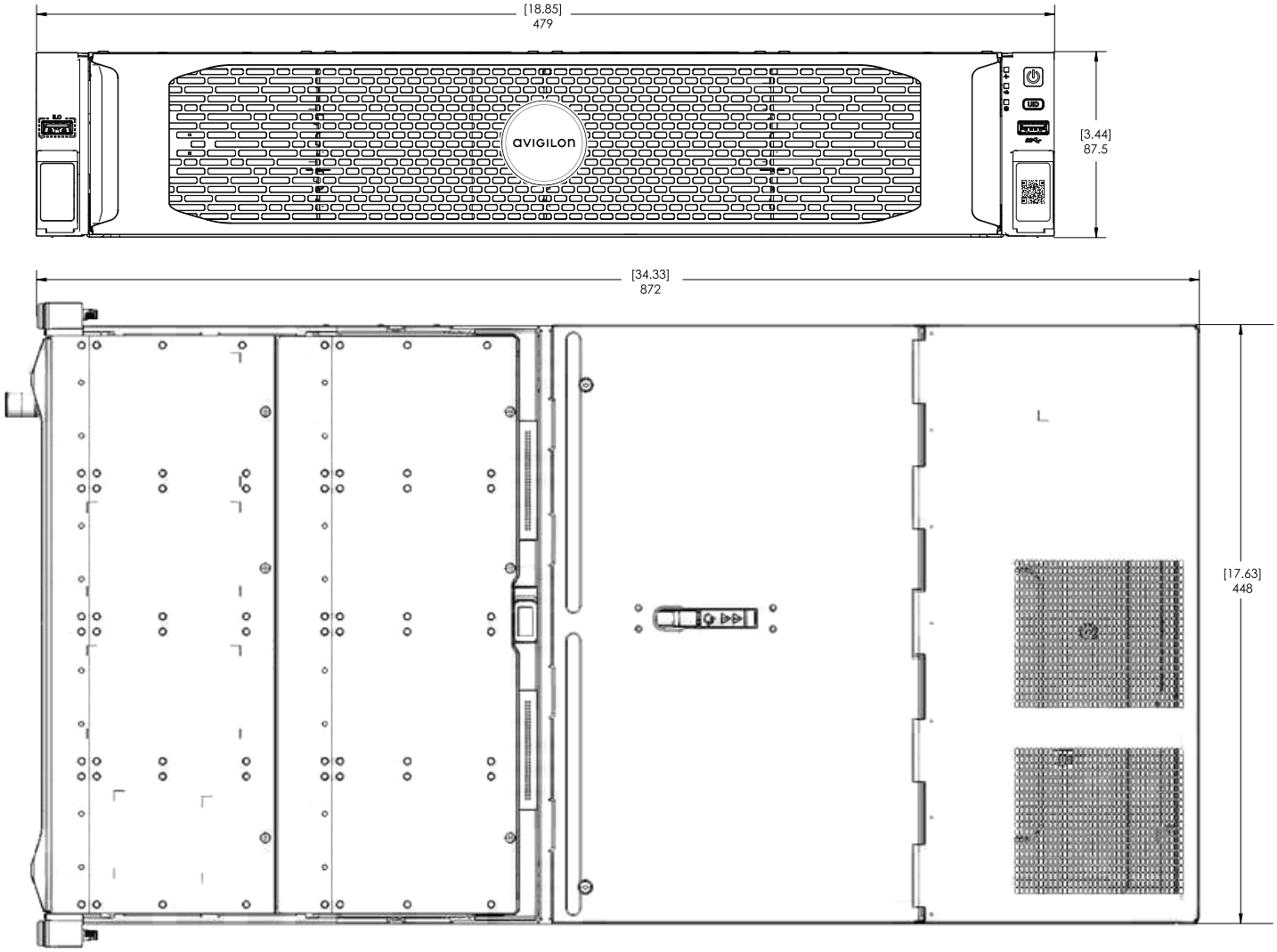
(EU) SCHUKO / C13

(AU) AS3112 / C13

OUTLINE DIMENSIONS

[X.X]	INCHES
X	MM

NVR5 PRM (252 288 360 432 TB)



ORDERING INFORMATION

NVR5	
NVR5-PRM-252TB-S19	252 TB (324 TB Raw) NVR5 Premium with Microsoft Windows Server 2019 and Avigilon Control Center
NVR5-PRM-288TB-S19	288 TB (360 TB Raw) NVR5 Premium with Microsoft Windows Server 2019 and Avigilon Control Center
NVR5-PRM-360TB-S19	360 TB (432 TB Raw) NVR5 Premium with Microsoft Windows Server 2019 and Avigilon Control Center
NVR5-PRM-432TB-S19	432 TB (504 TB Raw) NVR5 Premium with Microsoft Windows Server 2019 and Avigilon Control Center
Avigilon Control Center licenses must be purchased separately. Avigilon Appearance Search and facial recognition requires Enterprise version of the ACC software.	

ACCESSORIES	
NVR5-10GBASET-B	Network Card, DP 10G-BaseT NVR5 PRM 252-432 TB (slot 4 is reserved)
NVR5-RAM-16GB-B	RAM Upgrade Kit for 1 CPU Processor Only, 2 x 8 GB DDR4 3200 MT/s DIMMs, NVR5 PRM 252-432 TB
NVR5-PSU-1000W	1000 W Flex Slot Titanium Hot Plug/Swappable Power Supply Kit
NVR5-HDDS-HOT-18TB	In-field replacement Nearline SAS drive, 18 TB
AVA-HED1-NVR5-CONNECT-B	Connectivity kit to enable AVA (Avigilon Video Archive) support on NVR5 252-432 TB through direct attachment

ACCESSORIES	
NVR5-AVA-SAN-CONNECT-B	Connectivity kit to enable AVA (Avigilon Video Archive) support on NVR5 252-432 TB through SAN switching
NVR5-SFPPLUS-SR-B	SFP+ Transceivers for Short Range (Multi-mode) on server side, NVR5 252-432 TB
NVR5-SFPPLUS-LR-B	SFP+ Transceivers for Long Range (Single-mode) between SAN switches, NVR5 252-432 TB
HD-NVR4-SFPPLUS-DA	3 m (10 ft) SFP+ 10GbE Twinax Direct Attach cable
NVR5-KYD-WARR-5YR-B	5-year Keep-Your-Drive Warranty Upgrade for NVR5 252-432 TB

SUPPORT

Learn more and find additional documentation at avigilon.com or email sales@avigilon.com for specific product support.

MOTOROLA SOLUTIONS

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