

5TH GENERATION NETWORK VIDEO RECORDERS

16 TB

24 TB

32 TB

48 TB

64 TB

96 TB

128 TB

192 TB

224 TB

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.



NVR5 PRM (252-432 TB)



NVR5 PRM (192-224 TB)



NVR5 STD (16-64 TB) and
NVR5 PRM (96-160 TB)

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.



HIGH DATA AVAILABILITY

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



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.



INCREASE SYSTEM UPTIME & PRODUCTIVITY

Sites that have connected to the cloud and subscribed to advanced system health¹ can take advantage of system health monitoring to increase system availability, streamline maintenance time and minimize on-site service calls.



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.



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 SLA² for NVR5 PRM, or Next Business Day for NVR5 STD.



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.



EASY RECOVERY SOLUTION

Designed with a separate and redundant array of Solid-State Drives for the operating system (PRM and STD), 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.

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.



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



LICENSE PLATE RECOGNITION (LPR)

Significant improvements² in LPR performance compared to the previous generations of NVRs. 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.



ACC™ VIDEO MANAGEMENT SOFTWARE

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

MODEL	MAXIMUM SUPPORTED CAMERAS BY FEATURE ¹		NUMBER OF LPR LANES ²			
	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 TB)	200	50	20	10	5	3
NVR5 PRM (192 224 TB)			25	12	6	4
NVR5 PRM (96 128 160 TB)			12	6	3	2
NVR5 STD (16 24 32 48 64 TB)			12	6	3	2

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		NVR5 PRM (252-432 TB)	NVR5 PRM (192-224 TB)	NVR5 PRM (96-160 TB)	NVR5 STD (16-64 TB)
Capacity		252 TB 288 TB 360 TB 432 TB	192 TB 224 TB	96 TB 128 TB 160 TB	16 TB 24 TB 32 TB 48 TB 64 TB
Avigilon Control Center™ Edition		Core, Standard and Enterprise compatible			
Network Video Streaming Performance (10 GbE - Multiple Connections)	Recording Rate:	Up to 1500 Mbps	Up to 1500 Mbps	Up to 1500 Mbps	Up to 800 Mbps ¹
	Playback Rate:	Up to 600 Mbps ²	Up to 600 Mbps ²	Up to 600 Mbps ²	Up to 600 Mbps
Network Video Streaming Performance (1 GbE - Multiple Connections)	Recording Rate:	Up to 800 Mbps	Up to 800 Mbps	Up to 700 Mbps	Up to 700 Mbps
	Playback Rate:	Up to 800 Mbps	Up to 600 Mbps	Up to 600 Mbps	Up to 600 Mbps
Operating System		Microsoft Windows Server 2019 - 16 core			
Hard Disk Drive Configuration	Video Data:	RAID 60 Up to 28 × 3.5", hot-swappable	RAID 60 Up to 18 × 3.5", hot-swappable	RAID 6 Up to 12 × 3.5", hot-swappable	RAID 6 Up to 10 × 3.5", hot-swappable
	Operating System:	2 × 480 GB M.2 SSD Drives, RAID 1	2 × 240 GB M.2 SSD Drives, RAID 1		
Recording Storage Capacity		Up to 504 TB raw; 432 TB effective (RAID 60)	Up to 288 TB raw; 224 TB effective (RAID 60)	Up to 192 TB raw; 160 TB effective (RAID 6)	Up to 80 TB raw; 64 TB effective (RAID 6)
Network Interface		2 × 10 GbE SFP+ ports ³ 4 × 1 GbE RJ-45 ports	4 × 10 GbE SFP+ ports ³ 4 × 1 GbE RJ-45 ports	2 × 10 GbE SFP+ ports ³ (optional for NVR5 STD) 6 × 1 GbE RJ-45 ports	
Memory		8 × 8 GB DDR4	6 × 8 GB DDR4	4 × 8 GB DDR4	2 × 8 GB DDR4
Processor		2 × Intel® 8-core Xeon®	1 × Intel® 16-core Xeon®	2 × Intel® 8-core Xeon®	1 × Intel® 8-core Xeon®
Video Outputs		1 × VGA			
Local Viewing		No			
Out-of-band Management		iLO Advanced	iDRAC 9 Enterprise		
¹ The maximum recording throughput for STD can be increased by adding a 2nd CPU kit and a 10 GbE Network Card. ² The max playback throughput for PRM can be increased by reducing the recording throughput. ³ Direct Attach Cables (NVR5-SFPPLUS-DA for all NVR5 models) or system-specific SFP+ transceivers (NVR5-SFPPLUS-SR-A for NVR5 16-224 TB, NVR5-SFPPLUS-SR-B for NVR5 >= 252 TB) sold separately.					

MECHANICAL	NVR5 PRM (252-432 TB)	NVR5 PRM (192-224 TB)	NVR5 PRM (96-160 TB)	NVR5 STD (16-64 TB)
Form Factor	2U Rack Mount Chassis			
Dimensions (L x W x H)	872.0 mm × 479.0 mm × 87.5 mm 34.33" × 18.86" × 3.44"	751.3 mm × 482.0 mm × 86.8 mm 29.58" × 18.98" × 3.42"	721.6 mm × 482.0 mm × 86.8 mm 28.4" × 18.98" × 3.42"	
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)	192 TB: 32 kg (70 lbs) 224 TB: 33 kg (73 lbs)	96 TB: 27 kg (60 lbs) 128 TB: 27 kg (60 lbs) 160 TB: 29 kg (63 lbs)	16 TB: 24 kg (54 lbs) 24 TB: 26 kg (57 lbs) 32 TB: 24 kg (54 lbs) 48 TB: 26 kg (57 lbs) 64 TB: 27 kg (60 lbs)

ELECTRICAL	NVR5 PRM (252-432 TB)	NVR5 PRM (192-224 TB)	NVR5 PRM (96-160 TB)	NVR5 STD (16-64 TB)
Power Input	100 to 240 VAC, 50/60 Hz, auto-switching			
Power Supply	Dual (1+1) 1000 W redundant	Dual (1+1) 1100 W	2 × 1100 W Mixed Mode	800 W Mixed Mode
Power Consumption	Maximum 580 W (1978 BTU/h)	Maximum 803 W (2740 BTU/h)	Maximum 789 W (2691 BTU/h)	Maximum 604 W (2061 BTU/h)
Power Efficiency	Titanium			Platinum

ENVIRONMENTAL	NVR5 PRM (252-432 TB)	NVR5 PRM (192-224 TB)	NVR5 PRM (96-160 TB)	NVR5 STD (16-64 TB)
Operating Temperature	10°C to 35°C (50°F to 95°F)	10°C to 35°C (50°F to 95°F)	5°C to 45°C (41 °F to 113°F)	
Storage Temperature	-30°C to 60°C (-22°F to 140°F)	-40°C to 65°C (-40°F to 149°F)		
Operating Humidity	8% to 90% relative humidity with 28°C (82.4°F) max dew point	10% to 80% relative humidity with 29°C (84.2°F) max dew point	8% to 95% relative humidity with 27°C (80.6°F) max dew point	
Storage Humidity	5% to 95% RH with 38.7°C (101.7°F) max dew point. Atmosphere must be non-condensing at all times.	5% to 95% RH with 33°C (91°F) max dew point. Atmosphere must be non-condensing at all times.	5% to 95% RH with 27°C (80.6°F) max dew point. Atmosphere must be non-condensing at all times.	
Operating Vibration	0.15 Grms at 10 Hz to 300 Hz	0.26 Grms at 5 Hz to 350 Hz	0.21 Grms at 5 Hz to 500 Hz	
Storage Vibration	0.5 Grms at 10 Hz to 500 Hz	1.88 Grms at 10 Hz to 500 Hz	1.88 Grms at 10 Hz to 500 Hz	
Operating Shock	2 G	6 G		
Storage Shock	15 G	71 G		
Operating Altitude	3,050 m (10,000 ft)	3,048 m (10,000 ft)		
Storage Altitude	9,144 m (30,000 ft)	12,000 m (39,370 ft)		

CERTIFICATIONS	NVR5 PRM (252-432 TB)	NVR5 PRM (192-224 TB)	NVR5 PRM (96-160 TB)	NVR5 STD (16-64 TB)
Certifications/Directives	UL, cUL, CE, RCM, BSMI, EAC, KC, NRCS, VCCI, RoHS, WEEE	UL, cUL, CE, LOT9, NRCS, NOM, RCM, EAC, VCCI, BSMI, CCC (STD only), KC, BIS, UKCA		
Safety	UL/CSA/EN/IEC 62368-1	UL/CSA/IEC/EN 62368-1:2014 (2nd ed)		
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	FCC Title 47 CFR Part 15 Canadian ICES-003(A) Issue 7 EN 55032:2015/CISPR 32:2015 EN 61000-3-2:2014/IEC 61000-3-2:2014 EN 61000-3-3:2013/IEC 61000-3-3:2013		
Electromagnetic Immunity	EN 55024	EN 55024:2010 +A1:2015/CISPR 24:2010 +A1:2015 or EN 55035:2017		
Warranty	5-year 4-hour mission critical warranty with onsite parts delivery service.			5-year NBD (Next Business Day) with onsite parts delivery service. 4-hour mission critical warranty upgrade available.

SUPPLIED ACCESSORIES	NVR5 PRM (252-432 TB)	NVR5 PRM (192-224 TB)	NVR5 PRM (96-160 TB)	NVR5 STD (16-64 TB)
Rack Rail System	Sliding rail system with cable management arm ¹	ReadyRails Sliding Rails with Cable Management Arm		
Bezel	1, front			
Power Cords	4 total: 2 × C13 / C14, 2 × country variants (from options below)			2 total: 1 × C13 / C14, 1 × country variant (from options below)

¹ Supports tool-less mounting in 19"-wide EIA-310-E compliant square hole, unthreaded round-hole 4-post racks, and threaded hole 4-post racks

(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)

FORM FACTOR

2U rack mount chassis

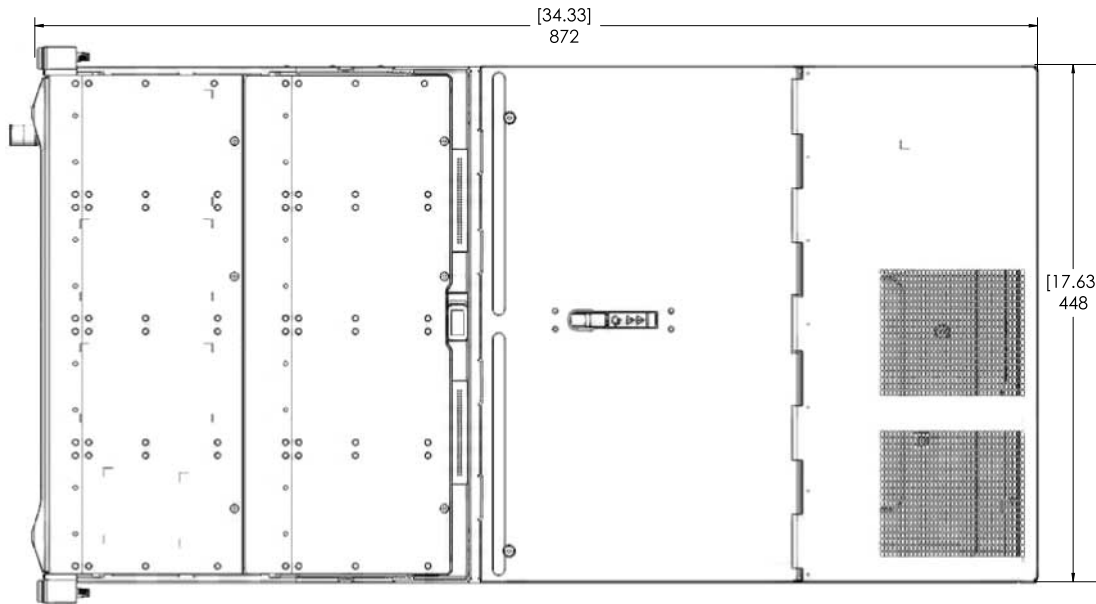
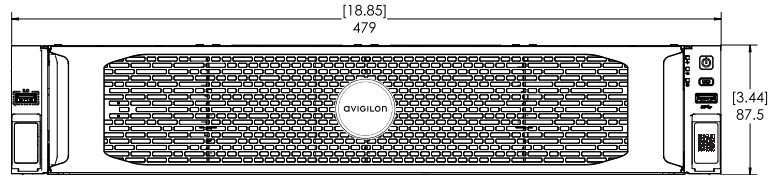
DIMENSIONS (L x W x H)

872.0 mm x 479.0 mm x 87.5 mm

34.33" x 18.86" x 3.44"

WEIGHT (WHEN FULLY POPULATED WITH HARD DRIVES)

55 kg [122 lbs]



NVR5 PRM (192 224 TB)

FORM FACTOR

2U rack mount chassis

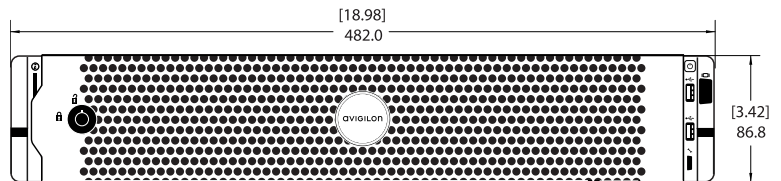
DIMENSIONS (L x W x H)

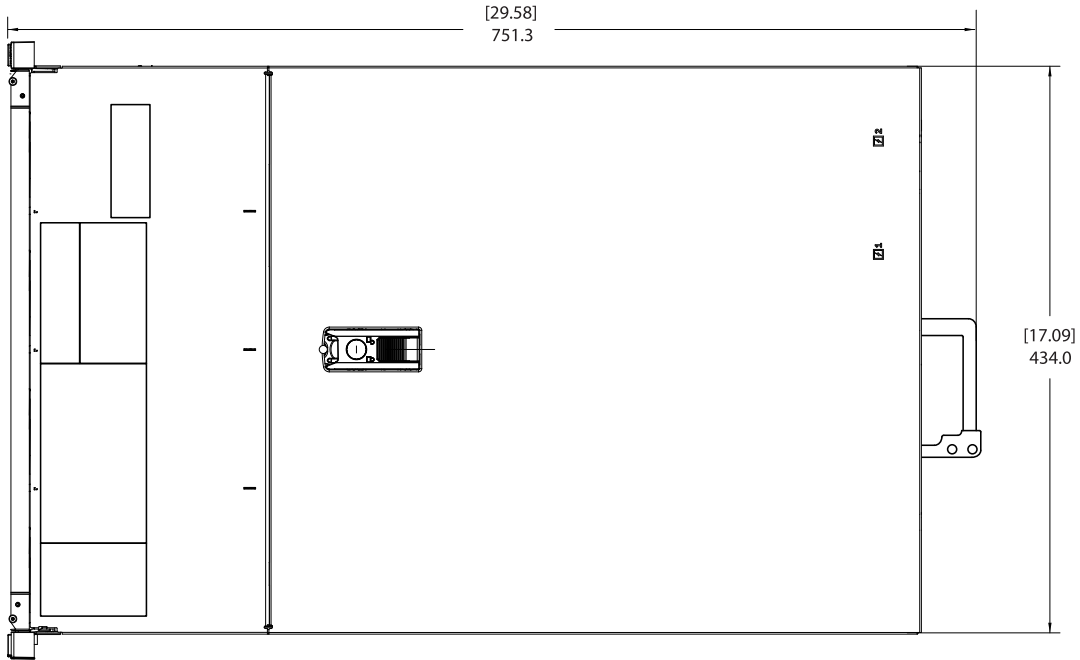
751.3 mm x 482.0 mm x 86.8 mm

29.58" x 18.98" x 3.42"

WEIGHT (WHEN FULLY POPULATED WITH HARD DRIVES)

33.1 kg [72.91 lbs]





NVR5 STD (16 24 32 48 64 TB) & NVR5 PRM (96 128 TB)

FORM FACTOR

2U rack mount chassis

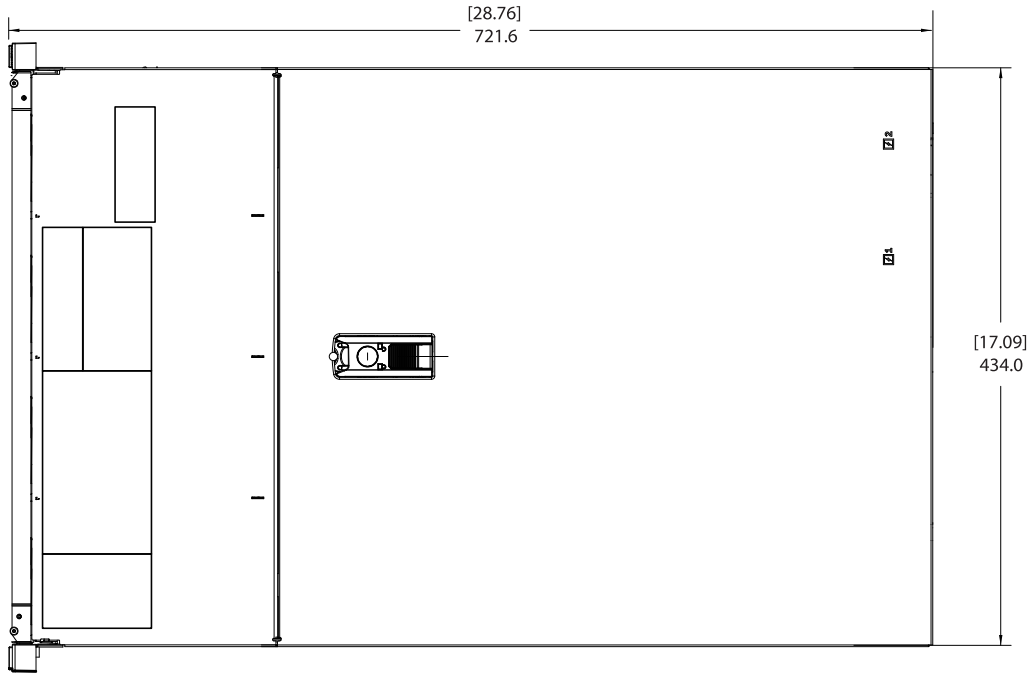
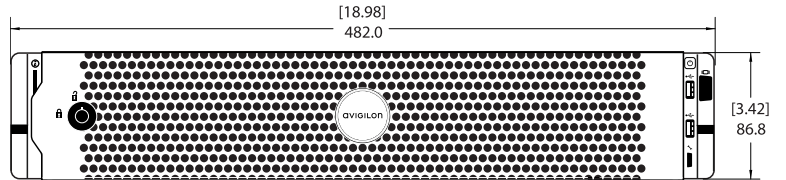
DIMENSIONS (L x W x H)

721.6 mm x 482.0 mm x 86.8 mm

28.4" x 18.98" x 3.42"

WEIGHT (WHEN FULLY POPULATED WITH HARD DRIVES)

28.76 kg [63.40 lbs]



ORDERING INFORMATION

NVR5	
NVR5-STD-16TB-W10	16 TB (24 TB Raw) NVR5 Standard with Microsoft Windows 10 v1809 LTSC and Avigilon Control Center
NVR5-STD-16TB-S19	16 TB (24 TB Raw) NVR5 Standard with Microsoft Windows Server 2019 LTSC and Avigilon Control Center
NVR5-STD-24TB-W10	24 TB (32 TB Raw) NVR5 Standard with Microsoft Windows 10 v1809 LTSC and Avigilon Control Center
NVR5-STD-24TB-S19	24 TB (32 TB Raw) NVR5 Standard with Microsoft Windows Server 2019 LTSC and Avigilon Control Center
NVR5-STD-32TB-W10	32 TB (48 TB Raw) NVR5 Standard with Microsoft Windows 10 v1809 LTSC and Avigilon Control Center
NVR5-STD-32TB-S19	32 TB (48 TB Raw) NVR5 Standard with Microsoft Windows Server 2019 LTSC and Avigilon Control Center
NVR5-STD-48TB-W10	48 TB (64 TB Raw) NVR5 Standard with Microsoft Windows 10 v1809 LTSC and Avigilon Control Center
NVR5-STD-48TB-S19	48 TB (64 TB Raw) NVR5 Standard with Microsoft Windows Server 2019 LTSC and Avigilon Control Center
NVR5-STD-64TB-W10	64 TB (80 TB Raw) NVR5 Standard with Microsoft Windows 10 v1809 LTSC and Avigilon Control Center
NVR5-STD-64TB-S19	64 TB (80 TB Raw) NVR5 Standard with Microsoft Windows Server 2019 LTSC and Avigilon Control Center
NVR5-PRM-96TB-S19	96 TB (120 TB Raw) NVR5 Premium with Microsoft Windows Server 2019 LTSC and Avigilon Control Center
NVR5-PRM-128TB-S19	128 TB (160 TB Raw) NVR5 Premium with Microsoft Windows Server 2019 LTSC and Avigilon Control Center
NVR5-PRM-160TB-S19	160 TB (192 TB Raw) NVR5 Premium with Microsoft Windows Server 2019 LTSC and Avigilon Control Center
NVR5-PRM-192TB-S19	192 TB (256 TB Raw) NVR5 Premium with Microsoft Windows Server 2019 LTSC and Avigilon Control Center
NVR5-PRM-224TB-S19	224 TB (288 TB Raw) NVR5 Premium with Microsoft Windows Server 2019 LTSC and Avigilon Control Center
NVR5-PRM-252TB-S19	252 TB (324 TB Raw) NVR5 Premium with Microsoft Windows Server 2019 LTSC and Avigilon Control Center
NVR5-PRM-288TB-S19	288 TB (360 TB Raw) NVR5 Premium with Microsoft Windows Server 2019 LTSC and Avigilon Control Center
NVR5-PRM-360TB-S19	360 TB (432 TB Raw) NVR5 Premium with Microsoft Windows Server 2019 LTSC and Avigilon Control Center
NVR5-PRM-432TB-S19	432 TB (504 TB Raw) NVR5 Premium with Microsoft Windows Server 2019 LTSC 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 PRM 252-432 TB)	
NVR5-SFPPLUS-DA	3 m (10 ft) SFP+ 10 GbE Twinax Direct Attach cable
HD-NVR4-SFPPLUS-DA	3 m (10 ft) SFP+ 10 GbE Twinax Direct Attach cable
NVR5-SFPPLUS-SR-B	SFP+ Transceivers for Short Range (Multi-mode) on server side, NVR5 >= 252 TB
NVR5-SFPPLUS-LR-B	SFP+ Transceivers for Long Range (Single-mode) between SAN switches, NVR5 >= 252 TB
NVR5-10GBASET-B	Network Card, DP 10 G-Base-T NVR5 PRM >= 252 TB
NVR5-RAM-16GB-B	RAM Upgrade Kit for 1 CPU Processor Only, 2 x 8 GB DDR4 3200 MT/s DIMMs, NVR5 PRM >= 252 TB
NVR5-PSU-1000W	1000 W Flex Slot Titanium Hot Plug/Swappable Power Supply Kit, NVR5 PRM >= 252 TB
NVR5-HDDS-INT-18TB	Spare hard drive, 18 TB, internal bay, compatible with NVR5 PRM >= 252 TB
NVR5-HDDS-HOT-18TB	Spare hard drive, 18 TB, front/rear bay, compatible with NVR5 PRM >= 252 TB
AVA-HED1-NVR5-CONNECT-B	AVA Connectivity Kit for Direct Attachment of a NVR5 PRM >= 252 TB
AVA-SAN-CONNECT-1	AVA Head Unit Connectivity Kit, includes 1 x transceiver and fiber optic cable for SAN networking
AVA-SAN-CONNECT-8	AVA Head Unit Connectivity Kit, includes 8 x transceivers and fiber optic cables for SAN networking with two network switches
NVR5-AVA-SAN-CONNECT-B	Connectivity Kit for AVA SAN networking, compatible with NVR5 PRM >= 252 TB (excluding AVA Transceiver and Fiber Optic Cables included in AVA-HED1-NVR5-CONNECT-B)
NVR-KYD-WARR-5YR-B	5-year Keep-Your-Drive Warranty Upgrade for NVR5 PRM >= 252 TB

ACCESSORIES (NVR5 STD/PRM 16-224 TB)	
NVR5-SFPPLUS-DA	3 m (10 ft) SFP+ 10 GbE Twinax Direct Attach cable
HD-NVR4-SFPPLUS-DA	3 m (10 ft) SFP+ 10 GbE Twinax Direct Attach cable
NVR4X-SFPPLUS-SR	SFP+ Transceivers for Short Range (Multi-mode) on server side

ACCESSORIES (NVR5 STD/PRM 16-224 TB)

NVR5-SFPPLUS-SR-A	SFP+ Transceivers for Short Range (Multi-mode) on server side, NVR5 16-224 TB
NVR5-SFPPLUS-LR-A	SFP+ Transceivers for Long Range (Single-mode) between SAN switches, NVR5 16-224 TB
NVR5-STD-10GBE	Network Card, DP 10 GbE SFP+ NVR5 STD 16-64 TB
NVR5-10GBASET-A1	Network Card, DP 10 G-Base-T NVR5 STD/PRM 16-160 TB
NVR5-10GBASET-A2	Network Card, DP 10 G-Base-T NVR5 PRM 192-224 TB
NVR5-RAM-16GB-A	RAM Upgrade Kit for 1 CPU Processor Only, 2 × 8 GB DDR4 3200 MT/s DIMMs, NVR5 STD/PRM 16-224 TB
NVR5-STD-2NDCPU	2nd CPU Upgrade Kit, 2 × 8 GB DDR4 3200 MT/s DIMMs, NVR5 STD 16-64 TB
NVR5-PRM-2NDCPU	2nd CPU Upgrade Kit, 6 × 8 GB DDR4 3200 MT/s DIMMs, NVR5 PRM 192-224 TB
NVR5-PSU-800W	800 W Hot Plug/Swappable Power Supply Kit, NVR5 STD 16-64 TB
NVR5-PSU-1100W-A1	1100 W Hot Plug/Swappable Power Supply Kit, NVR5 PRM 96-160 TB
NVR5-PSU-1100W-A2	1100 W Hot Plug/Swappable Power Supply Kit, NVR5 PRM 192-224 TB
NVR5-HDD-HOT-4TB	Spare hard drive, 4 TB, front/rear bay, compatible with NVR5 STD 16-24 TB
NVR5-HDD-HOT-8TB	Spare hard drive, 8 TB, front/rear bay, compatible with NVR5 STD 32-64 TB
NVR5-HDDS-HOT-12TB	Spare hard drive, 12 TB, front/rear bay, compatible with NVR PRM 96 TB
NVR5-HDDS-INT-16TB	Spare hard drive, 16 TB, internal bay, compatible with NVR5 PRM 192-224 TB
NVR5-HDDS-HOT-16TB-A1	Spare hard drive, 16 TB, front/rear bay, compatible with NVR5 PRM 128-160 TB
NVR5-HDDS-HOT-16TB-A2	Spare hard drive, 16 TB, front/rear bay, compatible with NVR5 PRM 192-224 TB
AVA-HED1-NVR5-CONNECT-A	AVA Connectivity Kit for Direct Attachment of a NVR5 STD/PRM ≤ 224 TB (excluding 2nd CPU for NVR5 STD)
AVA-SAN-CONNECT-1	AVA Head Unit Connectivity Kit, includes 1 × transceiver and fiber optic cable for SAN networking
AVA-SAN-CONNECT-8	AVA Head Unit Connectivity Kit, includes 8 × transceivers and fiber optic cables for SAN networking with two network switches
NVR5-AVA-SAN-CONNECT-A	Connectivity Kit for AVA SAN networking, compatible with NVR5 STD/PRM ≤ 224 TB (excluding 2nd CPU for NVR5 STD as well as AVA Transceiver and Fiber Optic Cables included in AVA-HED1-NVR5-CONNECT-A)
NVR-KYD-WARR-5YR-A	5-year Keep-Your-Drive Warranty Upgrade for NVR5 STD/PRM 16-224 TB
NVR5-STD-WARR-5Y4HMC	5-year 4-Hour-Mission-Critical Warranty Upgrade for NVR5 STD 16-64 TB

SUPPORT

Learn more and find additional documentation at [avigilon.com](https://www.avigilon.com) or email sales@avigilon.com for specific product support.



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