

4th Generation Network Video Recorders

Fourth generation Avigilon Network Video Recorders provide secure, reliable and scalable platforms for high performance end-to-end security solutions. Our network security recorders are pre-configured for facial recognition and Avigilon Appearance Search™ technology. All NVRs are preloaded with Avigilon Control Center (ACC) for secure network video recording and management of multi-megapixel IP cameras up to our highest resolution 10K (61 megapixel) H5 Pro camera.





Features



AVIGILON FACIAL RECOGNITION AND APPEARANCE SEARCH NATIVE SUPPORT

Native support for Avigilon facial recognition and Appearance Search technology* which helps enable security operators to locate a specific person or vehicle of interest across an entire site or multiple sites.



INDUSTRY LEADING STORAGE DENSITY AND PERFORMANCE

From 8TB to 288TB of raw storage (6TB – 217TB effective) in a 1U or 2U chassis, NVR4 models meet the most demanding recording requirements.



SUPERIOR REDUNDANCY AND RELIABLE DATA STORAGE

Reliable storage with RAID-configured redundancy offers a highly available and resilient system that protects your data. Our PRM and STD models include reliable hard drives with RAID 6 or 60 redundancy.



SINGLE POINT OF CONTACT FOR END TO END TECHNICAL SUPPORT

All NVRs are backed by a limited-time warranty¹ with onsite part replacement service and lifetime 24/7 Avigilon telephone technical support.



LOWERS DEPLOYMENT COSTS

Pre-configured with $ACC^{\mathbb{M}}$ software, optimized and provisioned.



SOLID-STATE DRIVE (PRM AND STD)

Operating systems on a redundant array of Solid-State Drives designed for greater reliability and speed.



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.



INCLUDES 1 YEAR FREE CLOUD SERVICES TRIAL

Securely and remotely connect with your ACC sites through the Avigilon Cloud Services platform. The system health dashboard allows you to remotely monitor the active status of all recorders and connected cameras to minimize system downtime and prioritize maintenance of critical components.



WEB ENDPOINT TECHNOLOGY WITH REMOTE NOTIFICATIONS ON MOBILE DEVICES

Optimized for mobile connections out-of-the-box with builtin web endpoint technology. Receive instant notifications to any mobile device with full support for remote alerts.

^{*} Avigilon Appearance Search technology and facial recognition support included for NVR4X-PRM and NVR4X-STD, and is optional for NVR4-VAL (Analytics Kit required).

[†] 5-year hardware warranty included for NVR4X-PRM and NVR4X-STD. 3-year hardware warranty included for NVR4-VAL (2-year extension is available for NVR4-VAL).

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

		MAXIMU	JM SUPPORTED CAMERAS		NUMBER O	F LPR LANES ²		
MODEL	ANALYTICS KIT	APPEARANCE SEARCH ONLY ³		FACE MASK DETECTION + APPEARANCE SEARCH ³		10 FPS (<48 KM/H)	20 FPS (<100 KM/H)	30 FPS (<150KM/H)
NVR4X Premium	Built-In	200	50	200	4	3	2	1
NVR4X Standard	Built-In	200	50	200	3	2	1	-
NVR4 Value	HD-NVR-ANK2-1	50	15	50	2	1	1	_

¹These performance figures are based on validation testing by Avigilon, using Avigilon Control Center software version 7.6.4.
Assumes appliance-wide average per camera rates of classified objects leaving the field of view:

- HSA cameras – One every second;
- HAA cameras – One every two seconds.

Additional licenses may be required. For more information, contact Avigilon Sales.

² Assumes a 3MP camera with 1MP 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.

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.

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Premium

Premium

Standard

Value

192 TB

64 TB 96 TB 16 TB 24 TB **6 TB**

12 TB

217 TB

128 TB

157 TB

32 TB 48 TB

16 TB 24 TB

SYSTEM

Avigilon Control Center™ Edition		Core, Standard compatible	and Enterprise	Core, Standard compatible	and Enterprise	Core, Standard and Enterprise compatible	Core, Standard and Enterprise compatible		
	Network Connection	10 GbE - multiple connections ⁴	1 GbE - multiple connections	10 GbE - multiple connections ⁴	1 GbE - multiple connections	1 GbE - with multiple network connections	1 GbE		
Network Video Streaming Performance ⁵	Recording Rate	Up to 1500 Mbps (max 1250 Mbps per connection)	Up to 700 Mbps (max 600 Mbps per connection)	Up to 1500 Mbps (max 1250 Mbps per connection)	Up to 700 Mbps (max 600 Mbps per connection)	Up to 700 Mbps (max 250 Mbps per connection)	Up to 300 Mbps Up to 300 Mbps (max 300 Mbps per connection)		
	Playback Rate	Up to 600 Mbps (while simultaneously recording video)		Up to 600 Mbps (while simultaneously recording video)		Up to 450 Mbps (while simultaneously recording video)	Up to 128 Mbps (while simultaneously recording video)		
Operating System	Operating System		ows Server 2016			Microsoft Windows 10 IoT Enterprise LTSB or Windows Server 2016	Microsoft Windows 10 IoT Enterprise LTSB		
Hard Disk Drive	Video Data	RAID $60 - \text{Up to } 18 \times 3.5$ ", hotswappable		RAID 6 — Up to swappable	12 × 3.5", hot-	RAID 6 — Up to 8 \times 3.5", hotswappable	RAID 5 — Up to 4×3.5 ", hotswappable		
Configuration	Operating System	2 x M.2 SSD drives, RAID 1		2 x M.2 SSD dri	ves, RAID 1	2 x M.2 SSD drives, RAID 1	Video Data and OS hosted on separated Virtual Disks		
Recording Storag	Recording Storage Capacity		w, 217 TB 60)	Up to 180 TB raw, 157 TB effective (RAID 6)		Up to 64 TB raw, 48 TB effective (RAID 6)	Up to 32 TB raw, 24 TB effective (RAID 5)		
Network Interface		2 x 10 GbE SFP4 (transceivers no 4 x 1 GbE RJ-45 (1000Base-T)	t included)	2 x 10 GbE SFP- (transceivers no 6 x 1 GbE RJ-45 (1000Base-T)	t included)	4 x 1 GbE RJ-45 ports (1000Base-T) (Optional) 2 x 10 GbE SFP+ ports (transceivers not included)	2 x 1 GbE RJ-45 ports (1000Base-T) (Optional) 2 x 10 GbE SFP+ ports (transceivers not included)		
Memory		2 x 16 GB DDR4		2 x 16 GB DDR4		2 x 8 GB DDR4	8 GB DDR4		
Processor		Intel® Xeon®		Intel® Xeon®		Intel® Xeon®		Intel® Xeon®	Intel® Xeon®
Video Outputs		1 x VGA		1 x VGA		1x VGA	1 x VGA		
Local Viewing	Local Viewing			No	No		No		
Out-of-band Mar	nagement	iDRAC9 Enterpr	ise	iDRAC9 Enterpr	ise	iDRAC9 Express	iDRAC9 Express		
4 The 10 ChE networ	k connection requires t	nection requires the HD-NVR4X-SEPPLUS-SR transceiver accessory							

STAR 2.0

The 10 GbE network connection requires the HD-NVR4X-SFPPLUS-SR transceiver accessory.
 These performance figures are based on validation testing by Avigilon, using Avigilon Control Center software. For more information, contact Avigilon Sales

M	E	CH	ΙA	NI	CA	L

Form Factor	2U rack mount chassis	2U rack mount chassis	2U rack mount chassis	1U rack mount chassis
Dimensions (LxWxH)	751.3 mm x 482 mm x 86.8 mm; 29.58" x 18.98" x 3.41"	717.6 mm x 482.0 mm x 86.8 mm; 27.71" x 18.97" x 3.41"	717.6 mm x 482.0 mm x 86.8 mm; 27.71" x 18.97" x 3.41"	594.13 mm x 482.6 mm x 42.8 mm; 23.39" x 19" x 1.69"
Weight	46.3 kg (102 lbs) when fully populated with hard drives	34.5 kg (76 lbs)	34.5 kg (76 lbs)	13.6 kg (29.98 lbs)
Power Input	100 to 240 VAC, 50/60 Hz, auto-switching	100 to 240 VAC, 50/60 Hz, auto-switching	100 to 240 VAC, 50/60 Hz, auto-switching	100 to 240 V AC, 50/60 Hz, auto-switching
Power Supply	Dual redundant, hot-swappable	Dual redundant, hot-swappable	Single — optional power supply available	Single — optional power supply available
Power Consumption	Average: 429 W (1+1) (1463.8 BTU/h), Maximum: 1100 W (2559.1 BTU/h)	Average: 333 W (1+1) (1136.2 BTU/h), Maximum: 750 W (2559.1 BTU/h)	Average: 269 W (917.9 BTU/h), Maximum: 750 W (2559.1 BTU/h)	Average: 197 W (672.2 BTU/h), Maximum: 350 W (1340 BTU/hr)
Power Efficiency	80 PLUS Platinum, ENERGY	80 PLUS Platinum, ENERGY	80 PLUS Platinum, ENERGY	80 PLUS Platinum, ENERGY

STAR 2.0

STAR 2.0

STAR 2.0

ELECTRICAL

Specifications (Cont'd)

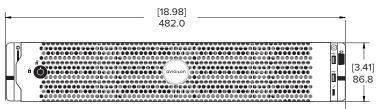
ENVIRONMENTAL	Operating Temperature		10° C to 35° C (50° F to 95° F)			
	Storage Tempera	ature	-40° C to 65° C (-40° F to 149° F)			
	Operating Humidity		10% to 80% relative humidity with 29°C (84.2°F) maximum dew point			
	Storage Humidity		5% to 95% RH with 33°C (91°F) maximum dew point. Atmosphere must be non-condensing at all times			
	Operating Vibrat	tion	0.26 Grms at 5 Hz to 350 Hz			
	Storage Vibration		1.88 Grms at 10 Hz to 500 Hz for 15 min			
	Operating Shock		One pulse on each side of the system of 71 G for up to 2 ms			
	Storage Shock		Six consecutively executed shock pulses in the positive and negative x, y, and z axes (one pulse on each side of the system) of 71 G for up to 2 ms			
	Operating Altitude		3,048 m (10,000 ft)			
	Storage Altitude		12,000 m (39,370 ft)			
CERTIFICATIONS	Certifications/Directives		UL, cUL, CE, RCM, BSMI, CCC, EAC, KC, NOM, NRCS, VCCI, RoHS, Reach (SVHC), WEEE, BIS			
	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	PRM and STD	5-year NBD (Next Business Day) with onsite parts delivery service. 4-hour mission critical warranty upgrade available.			
		VAL	3-year NBD (Next Business Day) with onsite parts delivery service. 2-year warranty extension available.			
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	PRM	2			
		STD and VAL	1			

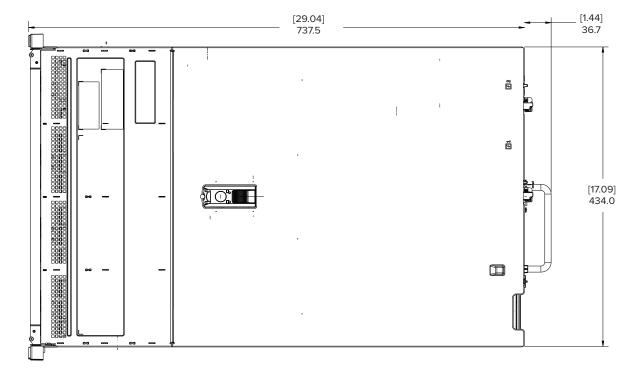
Outline Dimensions

NVR4X-PRM

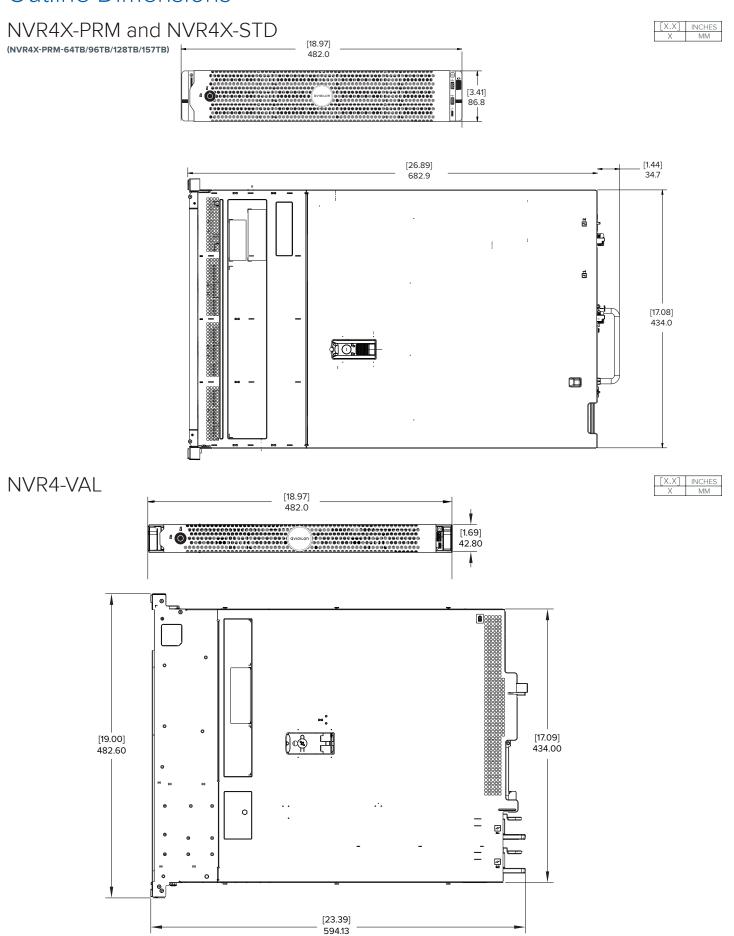
(NVR4X-PRM-192TB/217TB)







Outline Dimensions



Ordering Information

NVR4X-PRM

NVR4X-PRM-64TB	64 TB (80 TB Raw) NVR4X Premium with Microsoft Windows Server 2016 and Avigilon Control Center			
NVR4X-PRM-96TB	96 TB (120 TB Raw) NVR4X Premium with Microsoft Windows Server 2016 and Avigilon Control Center			
NVR4X-PRM-128TB	128 TB (160 TB Raw) NVR4X Premium with Microsoft Windows Server 2016 and Avigilon Control Center			
NVR4X-PRM-157TB	157 TB (192 TB Raw) NVR4X Premium with Microsoft Windows Server 2016 and Avigilon Control Center			
NVR4X-PRM-192TB	192 TB (256 TB Raw) NVR4X Premium with Microsoft Windows Server 2016 and Avigilon Control Center			
NVR4X-PRM-217TB	217 TB (288 TB Raw) NVR4X Premium with Microsoft Windows Server 2016 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.				

NVR4X-STD

NVR4X-STD-16TB-S16	16 TB (24 TB Raw) NVR4X Standard with Microsoft Windows Server 2016 and Avigilon Control Center			
NVR4X-STD-16TB	16 TB (24 TB Raw) NVR4X Standard with Microsoft Windows 10 Enterprise Embedded and Avigilon Control Center			
NVR4X-STD-24TB-S16	24 TB (32 TB Raw) NVR4X Standard with Microsoft Windows Server 2016 and Avigilon Control Center			
NVR4X-STD-24TB	24 TB (32 TB Raw) NVR4X Standard with Microsoft Windows 10 Enterprise Embedded and Avigilon Control Center			
NVR4X-STD-32TB-S16	32 TB (48 TB Raw) NVR4X Standard with Microsoft Windows Server 2016 and Avigilon Control Center			
NVR4X-STD-32TB	32 TB (48 TB Raw) NVR4X Standard with Microsoft Windows 10 Enterprise Embedded and Avigilon Control Center			
NVR4X-STD-48TB-S16	48 TB (64 TB Raw) NVR4X Standard with Microsoft Windows Server 2016 and Avigilon Control Center			
NVR4X-STD-48TB	48 TB (64 TB Raw) NVR4X Standard with Microsoft Windows 10 Enterprise Embedded 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.				

NVR4-VAL

NVR4-VAL-6TB	6 TB (8 TB Raw) NVR4 Value with Microsoft Windows 10 Enterprise Embedded and Avigilon Control Center				
NVR4-VAL-12TB	12 TB (16 TB Raw) NVR4 Value with Microsoft Windows 10 Enterprise Embedded and Avigilon Control Center				
NVR4-VAL-16TB	16 TB (24 TB Raw) NVR4 Value with Microsoft Windows 10 Enterprise Embedded and Avigilon Control Center				
NVR4-VAL-24TB	24 TB (32 TB Raw) NVR4 Value with Microsoft Windows 10 Enterprise Embedded and Avigilon Control Center				
Avigilan Control Center licenses must be purchased separately. Avigilan Appearance Search and facial recognition requires Enterprise version of the ACC software and the optional Analytics Kit					

Avigilon Control Center licenses must be purchased separately. Avigilon Appearance Search and facial recognition requires Enterprise version of the ACC software and the optional Analytics Kit accessory (HD-NVR-ANK2-1).

Accessories

HD-NVR-ANK2-1	Analytics Kit for Avigilon Appearance Search and facial recognition software*
NVR4-VAL-10GBE	Network Card, DP 10G-SFP+ NVR4 VAL
NVR4X-STD-10GBE	Network Card, DP 10G-SFP+ NVR4X STD
NVR4X-PRM-2NDCPU	2nd CPU Kit for NVR4X PRM
HD-NVR4-STD-2NDCPU	2nd CPU Kit for NVR4X STD, and NVR4 STD
NVR4X-1100W-2NDPS-XX	Redundant, hot-swappable power supply for NVR4X PRM 192/217TB
NVR4X-750W-2NDPS-XX	Redundant, hot-swappable power supply for NVR4X STD, and PRM 64/96/128/157TB
NVR4-VAL-2NDPS-XX	Redundant, hot-swappable power supply for NVR4 VAL
NVR4-HDDS-INT-16TB	Spare hard drive, 16TB, internal bay, for NVR4X PRM 192/217TB
NVR4-HDDS-HOT-16TB	Spare hard drive, 16TB, front or rear bay, for NVR4X PRM 128/157/192/217TB
NVR4-HDDS-HOT-12TB	Spare hard drive, 12TB, front or rear bay, for NVR4X PRM 96TB
NVR4-HDDS-HOT-8TB	Spare hard drive, 8TB, front or rear bay, for NVR4X PRM 64TB, NVR4X STD 32/48TB, and NVR4 VAL 16/24TB
NVR4-HDDS-HOT-4TB	Spare hard drive, 4TB, front or rear bay, for NVR4X STD 16/24TB and NVR4 VAL 12TB
NVR4-HDDS-HOT-2TB	Spare hard drive, 2TB, front or rear bay, for NVR4 VAL 6TB
AVA-HED1-NVR4X-PRM2-CONNECT	Avigilon Video Archive, Connectivity kit for NVR4X PRM 192/217TB
AVA-HED1-NVR4X-PRM1-CONNECT	Avigilon Video Archive, Connectivity kit for NVR4X PRM 64/96/128/157TB
AVA-HED1-NVR4X-STD-CONNECT	Avigilon Video Archive, Connectivity kit for NVR4X STD
IDRAC9-ENT-UPG	iDRAC Enterprise upgrade
HD-NVR4-SFPPLUS-DA	SFP+ 10GbE Twinax Direct Attach cable 3m
NVR4X-SFPPLUS-SR	SFP+10GBASE-short range transceiver
NVR4X-PRM2-WARR-5Y4HMC	4-hour MC (mission critical response) service-level agreement upgrade for NVR4X PRM 192/217TB
NVR4X-PRM1-WARR-5Y4HMC	4-hour MC (mission critical response) service-level agreement upgrade for NVR4X PRM 64/96/128/157TB
NVR4X-STD-WARR-5Y4HMC	4-hour MC (mission critical response) service-level agreement upgrade for NVR4X STD
NVR4-VAL-WARR-EXTEND-2YR	2-year warranty extension for NVR4 VAL
* Required for NVR4-VAL only.	

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