HD NVR4 Standard

Avigilon fourth generation HD Network Video Recorder Standard (NVR4) is our next generation of NVRs with a high retention capacity and throughput. It provides secure, reliable and scalable platforms for high performance end-to-end security solutions. Our network security recorders have Avigilon Control Center (ACC) and Avigilon Appearance Search™ technology preloaded and configured for plug-and-play network video recording and management of multi-megapixel IP cameras, up to our industry-leading 7K (30 megapixel) HD Pro.

The Avigilon HD NVR4 Standard is a 2U rack mountable recorder specifically manufactured for the Avigilon ecosystem with the flexibility to expand your surveillance system. It leverages the full power of Avigilon Control Center (ACC) and Avigilon Appearance Search technology to deliver a high throughput, retention, and availability in the NVR4 line. The NVR4 Standard can be used individually or as a cluster of NVRs designed for IP video and video analytics meta-data storage. It's backed by the Avigilon three-year warranty, extend-able up to five years, which provides businesses with support and on-site parts delivery for continuous recording and retention of video while minimizing disruptions to security operations.

The HD NVR4 Standard is an out-of-the-box, ready-to-deploy video recording platform for single site surveillance or to be distributed across multiple remote sites.

KEY FEATURES

Configured for and preloaded with ACC™ video management software

Natively supports Avigilon Appearance Search technology

Up to 1150 Mbps of total throughput — simultaneous recording, playback, and live streaming

Highly scalable and expandable capacity options — from 16TB to 48TB to fit a wide range of video retention requirements

Hot-swappable components maintain video recording and playback operations even in the event of multiple simultaneous component failures

Separate operating system and video storage volumes to enable independent, non-disruptive maintenance

An easy to access and maintain 2U rack mount chassis — includes a sliding rail kit and cable management system

A three-year warranty with on-site parts delivery service

Specifications

SYSTEM

Video Management Software		Avigilon Control Center™ – compatible with Enterprise, Standard and Core editions
Network Video Streaming Performance*	Network Connection	1 GbE - with multiple network connections
	Recording Data Rate	Up to 700 Mbps (max 250 Mbps per connection)
	Playback and Live Streaming	Up to 450 Mbps (while simultaneously recording video)
Recording Storage Capacity		Up to 64 TB raw, 48 TB effective (RAID 6)
Hard Disk Drive Configuration		Video data — up to 8 x large form factor hard disk drives, hot-swappable, RAID 6 Operating system - 2 x M.2 SSD, RAID 1
Network Interface		4 x 1 GbE RJ-45 ports (1000Base-T) (Optional) 2 x 10 GbE SFP+ ports (transceivers not included)
Memory		16GB DDR4
Operating System		Microsoft Windows 10 IoT Enterprise LTSB
Processor		Intel® Xeon®
Video Outputs		VGA
Local Viewing		No
Out-of-band management		iDRAC9 Express

* These performance figures are based on validation testing by Avigilon, using Avigilon Control Center software. For more information, contact Avigilon Sales.

MECHANICAL

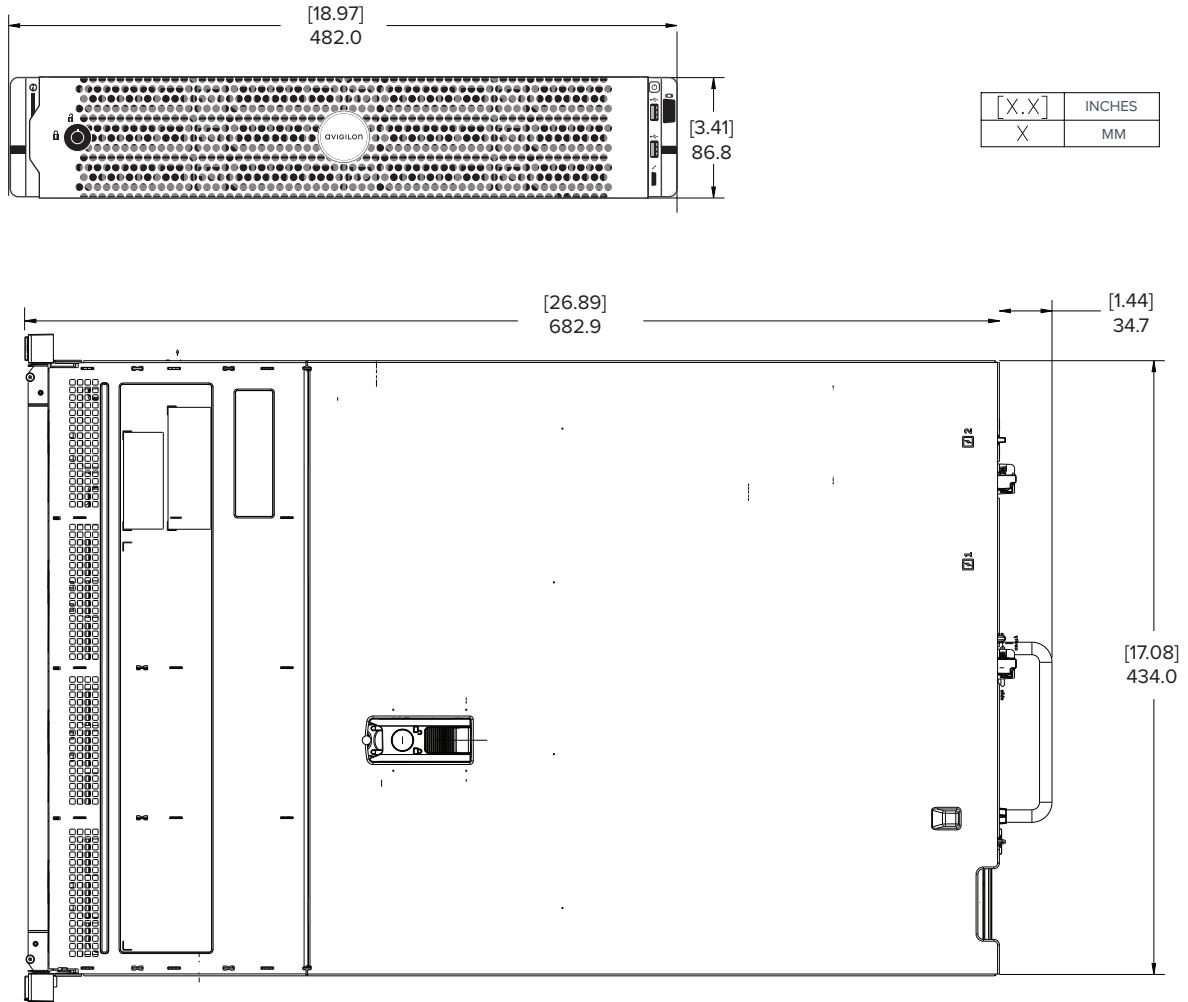|		
Form Factor		2U rack mount chassis
Dimensions (LxWxH)	with bezel	717.6 mm x 482.0 mm x 86.8 mm; 27.71" x 18.97" x 3.41"
	without bezel	703.8 mm x 482.0 mm x 86.8 mm; 27.71" x 18.97" x 3.41
Weight		34.5 kg (76 lbs)

ELECTRICAL

Power Input	100 to 240 VAC, 50/60 Hz, auto-switching
Power Supply	80 plus Titanium - optional secondary power supply
Power Consumption	Average: 270 W (921.3 BTU/h) Maxmium: 750 W (2560.8 BTU/h)

ENVIRONMENTAL

Operating Temperature	10° C to 35° C (50° F to 95° F)
Storage Temperature	-40° C to 65° C (-40° F to 149° F)
Humidity	10% to 80% relative humidity with 29°C (84.2°F) maximum dew point
Operating Vibration	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	Six consecutively executed shock pulses in the positive and negative x, y, and z axes of 6 G for up to 11ms
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
Max. Operating Altitude	3,048 m (10,000 ft)
Storage Altitude	12,000 m (39,370 ft)

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	1

CERTIFICATIONS

Certifications	UL, cUL, CE, BIS, BSMI, CCC, EAC, KC, NOM, NRCS, VCCI, RCM
Safety	EN 60950-1:2006 / A11:2009 / A1:2010 / A12:2011 / A2:2013; UL/CSA/IEC 60950-1, 2 Ed + Am 1: 2009 + Am 2: 2013
Electromagnetic Emissions	US CFR Title 47, FCC Part 2, 15; Canadian ICES-003(A) Issue 6; EN 55032:2012/ EN 55032:2015/ CISPR 32:2012/ CISPR 32:2015 (Class A); EN 61000-3-2:2014/ IEC 61000-3-2:2014 (Class D); EN 61000-3-3:2013/ IEC 61000-3-3:2013
Electromagnetic Immunity	EN 55024:2010+A1:2015/CISPR 24:2010 + A1:2015
Energy	Commission Regulation (EU) No. 617/2013
ROHS	EN 50581:2012

Outline Dimensions

[18.97]
482.0

[3.41]
86.8

[X.X]	INCHES
X	MM

[26.89]
682.9

[1.44]
34.7

[17.08]
434.0

Ordering Information

HD-NVR4-STD-16TB	16 TB HD NVR4 Standard with Microsoft Windows 10 IoT and Avigilon Control Center
HD-NVR4-STD-24TB	24 TB HD NVR4 Standard with Microsoft Windows 10 IoT and Avigilon Control Center
HD-NVR4-STD-32TB	32 TB HD NVR4 Standard with Microsoft Windows 10 IoT and Avigilon Control Center
HD-NVR4-STD-48TB	48 TB HD NVR4 Standard with Microsoft Windows 10 IoT and Avigilon Control Center
Avigilon Control Center licenses must be purchased separately. Avigilon Appearance Search requires Enterprise version of ACC.	

HD-NVR4-STD-2NDPS-AU	Redundant, hot-swappable power supply, for AU
HD-NVR4-STD-2NDPS-EU	Redundant, hot-swappable power supply, for EU
HD-NVR4-STD-2NDPS-NA	Redundant, hot-swappable power supply, for NA
HD-NVR4-STD-2NDPS-UK	Redundant, hot-swappable power supply, for UK
HD-NVR4-STD-10GBE	Dual-port 10G-SFP+ Network Adapter
HD-NVR4-SFPPLUS-DA	SFP+ 10GbE Twinax Direct Attach Cable 3m
HD-NVR4-SFPPLUS-SR	SFP+ 10GBASE Short Range Transceiver

HD-NVR4-STD-xxTB-NA =   HD-NVR4-STD-xxTB-**UK** =   HD-NVR4-STD-xxTB-**EU** =   HD-NVR4-STD-xxTB-**AU** =

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