HD NVR4 Premium

Avigilon fourth generation HD Network Video Recorder Premium (NVR4) is our next generation of NVRs with the highest capacity, retention 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 Premium 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 Appearance Search technology to deliver the highest available throughput, retention, and availability in the NVR4 line. The NVR4 Premium can be used individually or as a cluster of NVRs designed for IP video and video analytics metadata storage. It's backed by the Avigilon three-year warranty, extendable up to five years, which provides businesses with support and onsite parts replacement for continuous recording and retention of video while minimizing disruptions to security operations.

The HD NVR4 Premium is an out-of-the-box, ready to deploy video recording platform designed 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 2100 Mbps of total throughput – simultaneous recording, playback and live streaming

Highly scalable and flexible capacity options — from 64TB to 192TB (72 TB to 252 TB raw) of recording for long-term video retention or high camera counts

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

Separate of 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 replacement service

Specifications

SYSTEM

Video Management Software		Avigilon Control Center™ – compatible with Enterprise, Standard and Core editions	
Network Video Streaming Performance*	Network Connection	10 GbE - with multiple network connections	1 GbE
	Recording Data Rate	Up to 1500 Mbps (max 1250 Mbps per connection)	Up to 600 Mbps
	Playback and Live Streaming	Up to 600 Mbps (while simultaneously recording video)	Up to 600 Mbps
Recording Storage Capacity		Up to 180 TB raw, 157 TB effective (RAID 6), or 252 TB raw, 192 TB effective (RAID 60)	
Hard Disk Drive Configuration		Video data — up to 18 x large form factor near-line SAS hard disk drives, hot-swappable, RAID 6 or RAID 60 Operating system — 2 x M.2 SSD drives, RAID 1	
Network Interface		2 x 10 GbE SFP+ ports (transceivers not included) 2 x 1 GbE RJ-45 ports (1000Base-T)	
Memory		32GB DDR4	
Operating System		Microsoft Windows Server 2016	
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

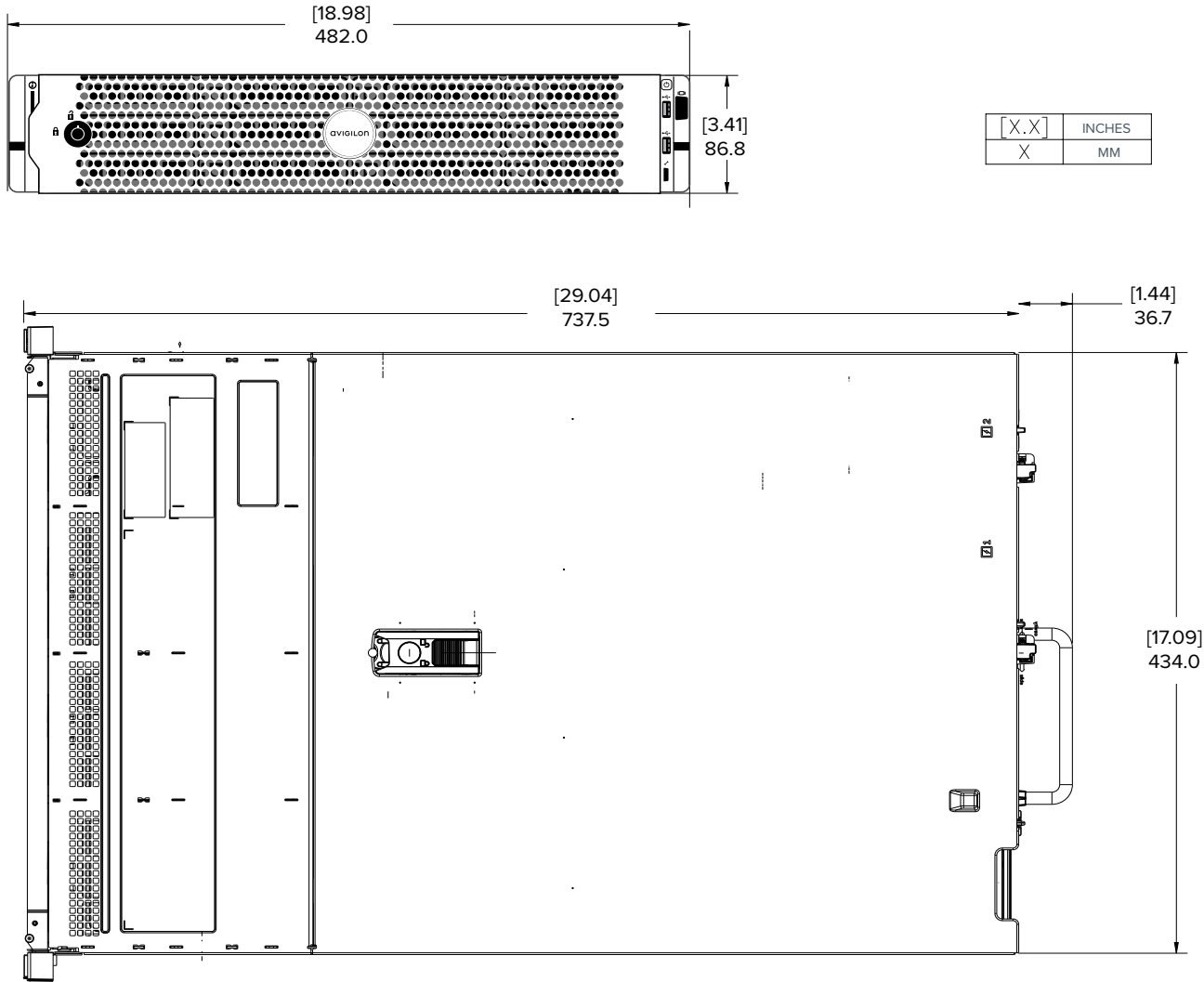|		
Form Factor		2U rack mount chassis
Dimensions (LxWxH)	with bezel	751.3 mm x 482 mm x 86.8 mm; 29.58" x 18.98" x 3.41"
	without bezel	737.5 mm x 482 mm x 86.8 mm; 29.04" x 18.98" x 3.41"
Weight		46.3 kg (102 lbs) when fully populated with hard drives

ELECTRICAL

Power Input	100 to 240 VAC, 50/60 Hz, auto-switching
Power Supply	80 Plus rating redundant, hot-swappable
Power Consumption	Average: 429 W (1+1) (1463.8 BTU/h), Maxmium: 750 W (2559.1 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	2

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

[X.X]	INCHES
X	MM

[18.98] 482.0

[3.41] 86.8

[29.04] 737.5

[1.44] 36.7

[17.09] 434.0

Ordering Information

HD-NVR4-PRM-64TB	64 TB (72 TB Raw) HD NVR4 Premium with Microsoft Windows Server 2016 Avigilon Control Center
HD-NVR4-PRM-96TB	96 TB (112TB Raw) HD NVR4 Premium with Microsoft Windows Server 2016 Avigilon Control Center
HD-NVR4-PRM-128TB	128 TB (144 TB Raw) HD NVR4 Premium with Microsoft Windows Server 2016 Avigilon Control Center
HD-NVR4-PRM-157TB	157 TB (180 TB Raw) HD NVR4 Premium with Microsoft Windows Server 2016 Avigilon Control Center
HD-NVR4-PRM-192TB	192 TB (252 TB Raw) HD NVR4 Premium with Microsoft Windows Server 2016 Avigilon Control Center
Avigilon Control Center licenses must be purchased separately. Avigilon Appearance Search requires Enterprise version of ACC.	

HD-NVR-ANK2-1	Analytics Kit for Avigilon Appearance Search software
HD-NVR4-PRM-2NDPS-AU	Redundant, hot-swappable power supply, for AU
HD-NVR4-PRM-2NDPS-EU	Redundant, hot-swappable power supply, for EU
HD-NVR4-PRM-2NDPS-NA	Redundant, hot-swappable power supply, for NA
HD-NVR4-PRM-2NDPS-UK	Redundant, hot-swappable power supply, for UK
HD-NVR4-SFPPLUS-DA	SFP+ 10GbE Twinax Direct Attach Cable 3m
HD-NVR4-SFPPLUS-SR	SFP+ 10GBASE-Short Range Transceiver

HD-NVR4-PRM-xxTB-NA =   HD-NVR4-PRM-xxTB-UK =   HD-NVR4-PRM-xxTB-EU =   HD-NVR4-PRM-xxTB-AU =