HD NVR Premium

Avigilon HD Network Video Recorders (NVRs) provide secure, reliable and scalable platforms for high performance end-to-end security solutions. Our network security recorders have Avigilon Control Center (ACC) software 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 NVR Premium is a 2U rack mountable recorder specifically manufactured for the Avigilon ecosystem. It leverages the full power of Avigilon Control Center (ACC) software to deliver the highest available throughput, retention, and availability in the NVR line. The NVR Premium meets the requirements of IP video and video analytics metadata storage. It's backed by the Avigilon three-year warranty, which provides businesses with support and onsite parts delivery for continuous recording and retention of video while minimizing disruptions to security operations.

The HD NVR 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

Preloaded and configured with ACC™ video management software

High performance of up to 1670 Mbps of total throughput – simultaneous recording, playback and live streaming

Highly scalable capacity options — up to 137TB of recording for long-term video retention

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

Separation 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 delivery 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 - with multiple network connections
	Recording Data Rate	Up to 1350 Mbps	Up to 600 Mbps
	Number of Cameras	Up to 300	Up to 150
Recording Storage Capacity		Up to 160 TB raw, 137 TB effective (RAID 6)	
Hard Disk Drive Configuration		Video data — up to 16 x large form factor near-line SAS hard disk drives, hot-swappable, RAID 6 Operating system — 2 x small form factor SATA hard disk drives, hot-swappable, RAID 1	
Network Interface		2 x 10 GbE SFP+ ports (transceivers not included) 4 x 1 GbE RJ-45 ports (1000Base-T)	
Memory		16GB DDR4	
Operating System		Microsoft Windows Server 2012 R2	
Processor		Intel® Xeon® Processor E5-2620 V3, 2.4GHz, 15M Cache	
Video Outputs		2 x VGA	
Local Viewing		No	
Remote Access		iDRAC8 Express	

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

MECHANICAL

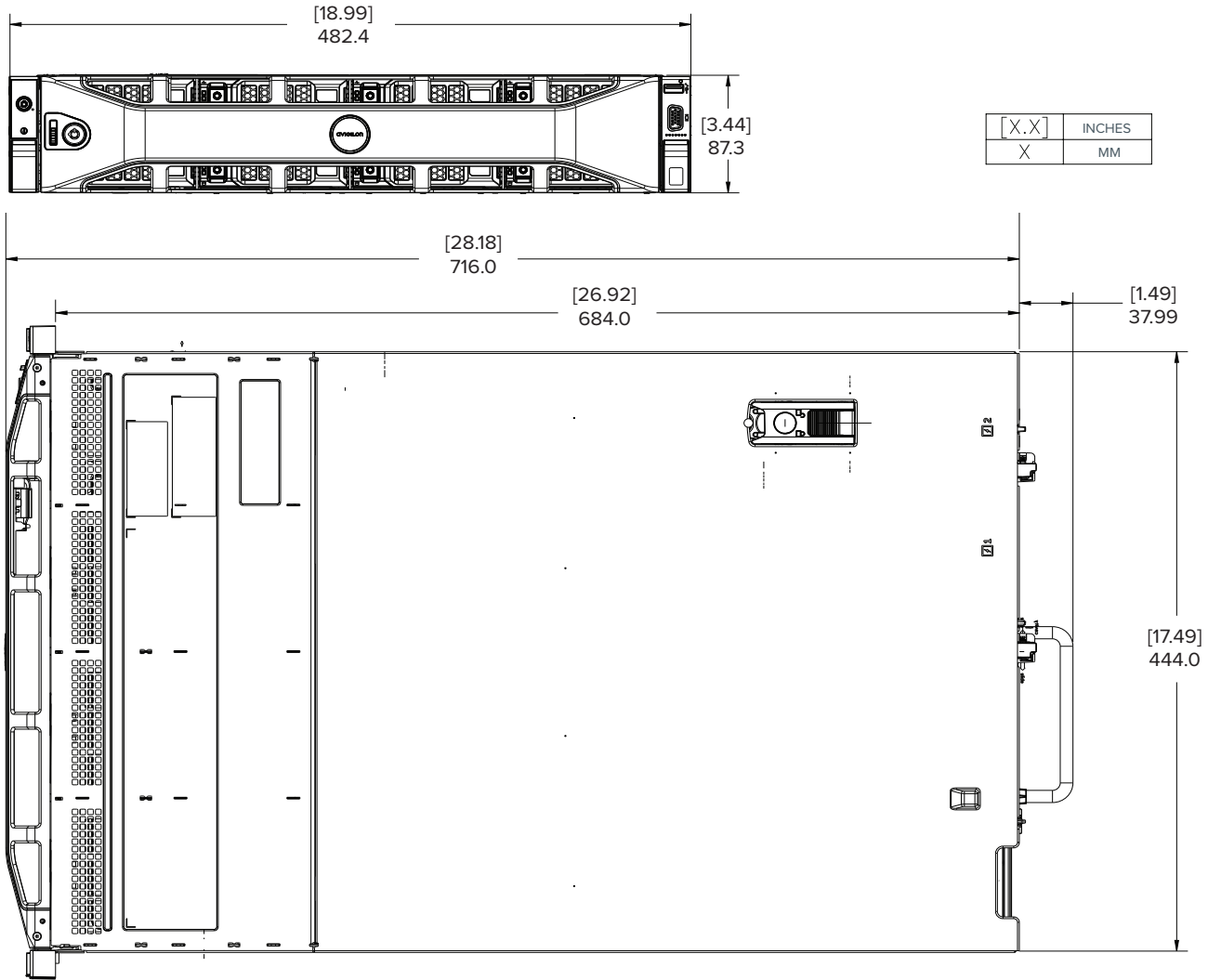|		
Form Factor		2U rack mount chassis
Dimensions (LxWxH)	with bezel	716 mm x 482.4 mm x 87.3 mm; 28.19" x 18.99" x 3.44"
	without bezel	684 mm x 444 mm x 87.3 mm; 27.64" x 17.49" x 3.44"
Weight		42.5 kg (93.6 lbs) when fully populated with hard disk drives

ELECTRICAL

Power Input	100 to 240 VAC, 50/60 Hz, auto-switching
Power Supply	750 W redundant, hot-swappable
Power Consumption	Average: 429 W (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	5% to 95% relative humidity with 33° C (91° F) maximum dew point (non-condensing)
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 40 G for up to 2.3 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)

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

Safety	EN 60950-1:2006 / A11:2009 / A1:2010 / A12:2011 / A2:2013 EN 62311:2008	UL/CSA/IEC 60950-1, 2 Ed + Am 1: 2009 + Am 2: 2013
Power Efficiency	80 PLUS Titanium	ENERGY STAR 2.0
Electromagnetic Emissions	US CFR Title 47, FCC Part 2, 15 Canadian ICES-003(A) Issue 5 EN 55022:2010/CISPR 22:2010	EN 61000-3-2:2006 +A1:2009 +A2:2009/IEC 61000-3-2:2005 +A1:2008 +A2:2009 (Class D) EN 61000-3-3:2008/ IEC 61000-3-3:2008
Electromagnetic Immunity	EN 55024:2010/CISPR 24:2010	
Directives	RoHS, Reach (SVHC), WEEE	

Outline Dimensions

[X.X]	INCHES
X	MM

Dimensions shown:
[18.99] 482.4
[3.44] 87.3
[28.18] 716.0
[26.92] 684.0
[1.49] 37.99
[17.49] 444.0

Ordering Information

HD-NVR3-PRM-48TB	48 TB HD NVR Premium with Microsoft Windows Server 2012 R2 for Embedded Systems and Avigilon Control Center
HD-NVR3-PRM-84TB	84 TB HD NVR Premium with Microsoft Windows Server 2012 R2 for Embedded Systems and Avigilon Control Center
HD-NVR3-PRM-137TB	137 TB HD NVR Premium with Microsoft Windows Server 2012 R2 for Embedded Systems and Avigilon Control Center
Avigilon Control Center licenses must be purchased separately	

HD-NVR3-ANK1-1	Analytics kit for Avigilon Appearance Search™ software
HD-NVR3-PRM-2NDCPU	2nd CPU kit
HD-NVR3-PRM-2NDPS-AU	Redundant, hot-swappable power supply, for AU
HD-NVR3-PRM-2NDPS-EU	Redundant, hot-swappable power supply, for EU
HD-NVR3-PRM-2NDPS-NA	Redundant, hot-swappable power supply, for NA
HD-NVR3-PRM-2NDPS-UK	Redundant, hot-swappable power supply, for UK
HD-NVR3-SFPPLUS-DA	SFP+ 10GbE Twinax Direct Attach Cable 3m
HD-NVR3-SFPPLUS-SR	SFP+ 10GBASE-SR Transceiver

HD-NVR3-PRM-xxTB-**NA** =   HD-NVR3-PRM-xxTB-**UK** =   HD-NVR3-PRM-xxTB-**EU** =   HD-NVR3-PRM-xxTB-**AU** =   HD-NVR3-PRM-xxTB-**DK** =   HD-NVR3-PRM-xxTB-**CH** =

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