

# 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 support Avigilon Appearance Search technology
- Up to 1800 Mbps of total throughput – simultaneous recording, playback and live streaming
- Highly scalable and flexible capacity options — from 64TB to 157TB 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 - with multiple network connections		
	Recording Data Rate	Up to 1450 Mbps	Up to 600 Mbps		
	Playback and Live Streaming	Up to 350 Mbps (while simultaneously recording video)			
Recording Storage Capacity		Up to 180 TB raw, 157 TB effective (RAID 6)			
Avigilon Appearance Search Capacity		Up to 100 cameras**			
Hard Disk Drive Configuration		Video data — up to 18 x large form factor near-line SAS hard disk drives, hot-swappable, RAID 6 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](#).

\*\* Requires ACC enterprise license and Avigilon H4A analytic enabled cameras. The Appearance Search camera support limit does not affect any NVR throughputs for simultaneous recording, playback and live streaming.

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			

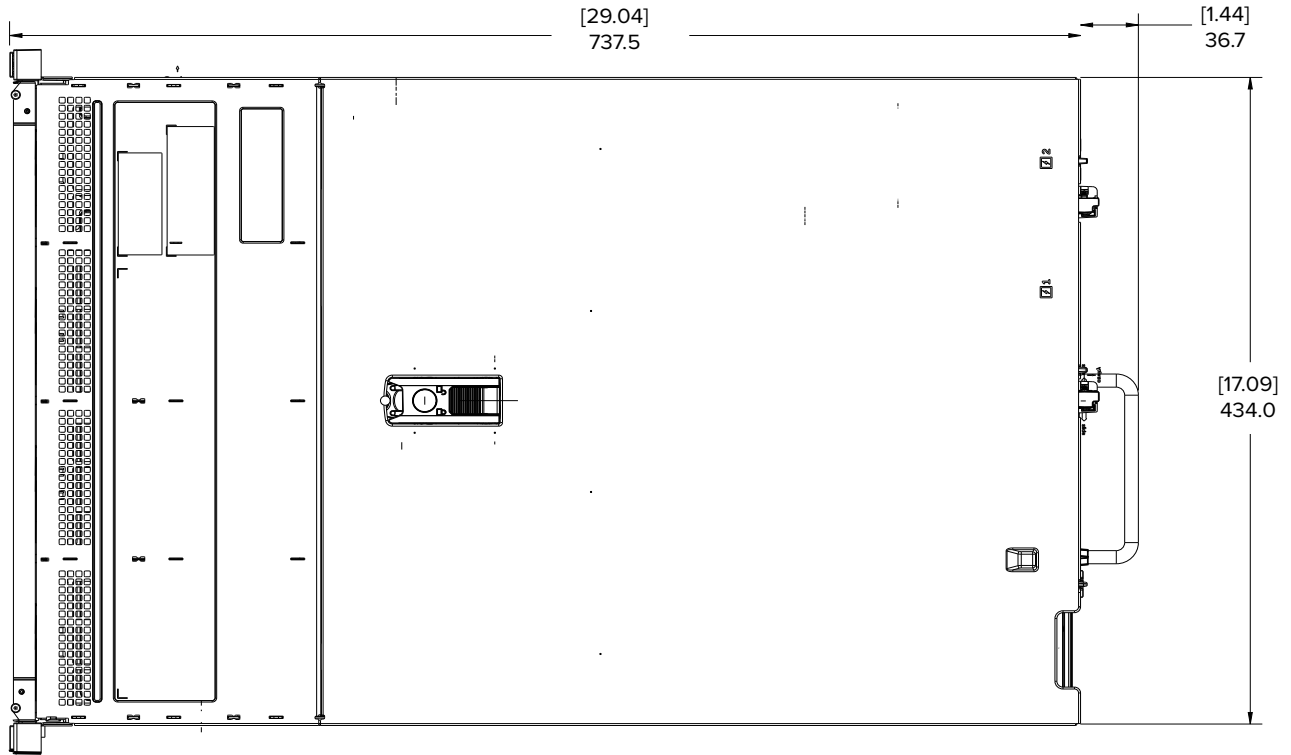
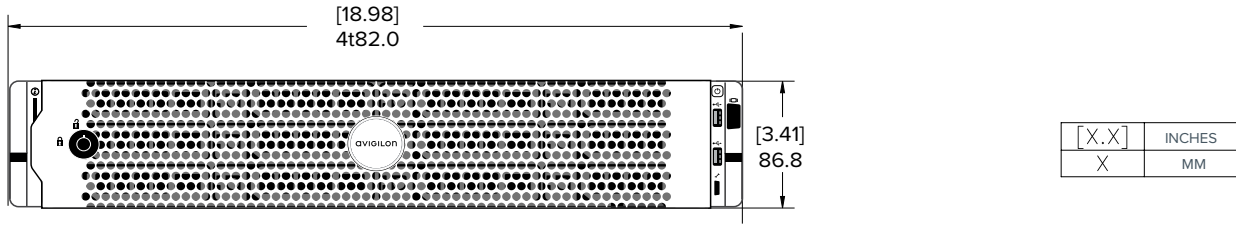
ELECTRICAL		Power Input		100 to 240 VAC, 50/60 Hz, auto-switching	
Power Supply		80 Plus rating redundant, hot-swappable			
Power Consumption		Average: 429 W (1+1) (1463.8 BTU/h), Maximum: 750 W (2559.1 BTU/h)			

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:	
		<ul style="list-style-type: none"> <li>• Tool-less mounting in 19"-wide EIA-310-E compliant square hole and unthreaded round-hole 4-post racks</li> <li>• Tooling mounting in threaded hole 4-post racks</li> </ul>			
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 / A1:2009 / 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



# Ordering Information

HD-NVR4-PRM-64TB	64 TB HD NVR4 Premium with Microsoft Windows Server 2016 Avigilon Control Center
HD-NVR4-PRM-96TB	96 TB HD NVR4 Premium with Microsoft Windows Server 2016 Avigilon Control Center
HD-NVR4-PRM-128TB	128 TB HD NVR4 Premium with Microsoft Windows Server 2016 Avigilon Control Center
HD-NVR4-PRM-157TB	157 TB HD NVR4 Premium with Microsoft Windows Server 2016 Avigilon Control Center

Avigilon Control Center licenses must be purchased separately. Avigilon Appearance Search Capacity Up to 100 cameras requires enterprise edition ACC

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

