

# 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.

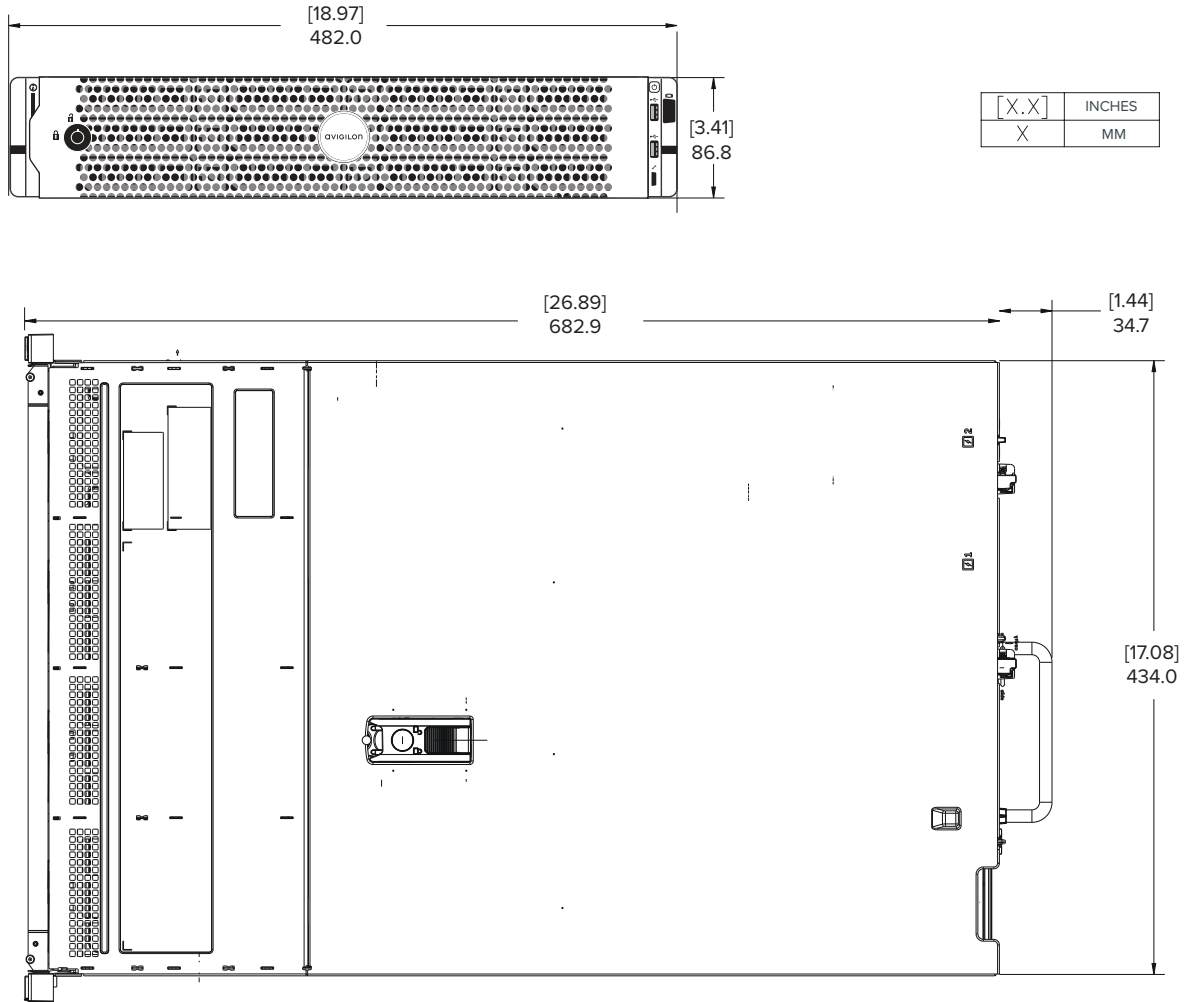
## KEY FEATURES

- 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

|                             |   |  |  |  |
|-----------------------------|---|--|--|--|
| <b>SYSTEM</b>               | 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<br>Operating system - 2 x M.2 SSD, RAID 1   |  |  |
|                             | Network Interface   | 4 x 1 GbE RJ-45 ports (1000Base-T)<br>(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 <a href="#">Sales</a> . |  |  |  |
| <b>MECHANICAL</b>           | 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)   |  |  |
| <b>ELECTRICAL</b>           | 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)<br>Maximum: 750 W (2560.8 BTU/h)  |  |  |
| <b>ENVIRONMENTAL</b>        | 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)   |  |  |
| <b>SUPPLIED ACCESSORIES</b> | 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>• Toolled mounting in threaded hole 4-post racks</li> </ul> |  |  |
|                             | Bezel   | 1, front   |  |  |
|                             | Power Cords   | 1  |  |  |
| <b>CERTIFICATIONS</b>       | 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-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          |

