AVIGILON™

NVR6 Value

Uncompromising performance and reliability you can trust

Manage Unity Video and Unity Access together on a single appliance with the **Avigilon Network Video Recorder 6 Value (NVR6 Value)** series. Supporting up to 50 doors for Unity Access and up to 32 cameras on Unity Video, this appliance streamlines deployments and reduces hardware. With Unity Video, it supports up to 48 cameras. Quickly scale up storage at a single location, as the NVR6 offers 12TB to 24TB storage options. Streamline your server deployment to save time and resources with NVR6, fully optimized and pre-configured with Avigilon Unity Video software and Windows 11 OS.

AI-powered Video Analytics

Stay on top of what's happening at your site with built-in video analytics to alert you on unusual activity and potentially critical events.

Appearance Search support[1]

Locate people or vehicles of interest in seconds by entering physical descriptions, uploading a photo, or by finding an example within recorded video.

Facial Recognition support[1]

Identify people of interest on your secure watch list(s). Assistive facial recognition can help equip you with the context for potentially critical events, so you can act faster.

Increase system uptime & productivity

Sites connected to the cloud and subscriber health can use system health monitoring to increase system availability, streamline maintenance time, and minimize on-site service calls.

Superior redundancy & reliable data storage

Reliable storage with RAID-configured redundancy offers a highly available and resilient system that protects your data. Our NVR6 Value models include reliable hard drives with RAID5 redundancy. Redundant power supply option is also available.

Resolve technical issues end-to-end with a single-point-of-contact

Our NVR6 Value models are backed by a 3-year warranty[2] and 24/7 lifetime technical support dedicated to Avigilon's End-to-End solution. 2-year warranty extension, mission-critical, and keep-your-drive upgrade options are available.

[1] Requires the analytics kit to be installed (NVR6-AINVR2X-VAL-FORM-D-ANK).

[2] Warranty coverage and support Service Level Agreement is subject to end user's geographic location. Please refer to Avigilon Limited Warranty & Product Policies (Supplement #1 for Form D chassis) and our datasheet for more information.

MOTOROLA SOLUTIONS

Analytics

Avigilon Appearance Search™
Quickly locates a specific person or vehicle of interest across an entire site using a sophisticated deep learning AI search engine.
UNITY8/ACC7-ENT required

Facial Recognition
Detects matches from managed watchlists to alert operators of people of interest. Requires Appearance Search and an additional license.
UNITY8/ACC7-FACE required

License Plate Recognition (LPR)
Significant improvements[2] in LPR performance compared to the previous generations of NVRs. Works with Unity Video software for accurate license plate capture at a range of distances and speeds. Requires an additional license.
UNITY8/ACC7-LPR required

Occupancy Counting
With cameras at entrances and exits, a running total of occupancy can be monitored in real time.
ACS Required

NVR6 Model	Accessory Kit	Analytics Cameras[1]		Number of LPR Lanes[2]			
		AS Only[3]	FR+ AS[3]	5 FPS (<16 KM/H)	10 FPS (<48 KM/H)	20 FPS (<100 KM/H)	30 FPS (<150 KM/H)
Value	—	—	—	21	10	5	3
	NVR6-AINVR2X-VAL-FORM-D-ANK	48	48	21	10	5	3

[1] Assumes each channel consists of a H.264/H.265 2MP 30 FPS primary stream and a low resolution 30 FPS secondary stream with moderate ONVIF Profile S motion metadata as well as appliance-wide average per camera rates of classified objects leaving the field of view: H6A/H5A cameras – one every second; H4A cameras – one every two seconds; non-analytics cameras running COD – one every second. Each multisensor camera with 3-4 sensors is considered equivalent to 3-4 cameras.

[2] Assumes a 3MP camera with 1MP license plate scan area and Frames Per Second (FPS) to recognize license plates up to vehicle speeds in Kilometers Per Hour (KM/H). Results may vary according to camera mounting parameters.

[3] For cameras at 2MP and 30 frames per second (fps). Requires Unity Video 8.7.0.

Video Streaming

NVR6 Value

NVR6 Model	Recording		Livestream		Playback	
	Rate	Channels	Rate	Channels	Rate	Channels
1 GbE Non-Teamed (Multiple Connections)						
Value	Up to 312 Mbps	Up to 48	Up to 312 Mbps	Up to 48	Up to 130 Mbps	Up to 20
10 GbE, or 1 GbE Teamed (Multiple Connections)						
Value	N/A	N/A	N/A	N/A	N/A	N/A

Assumes each channel consists of a H.264/H.265 2MP 30 FPS primary stream and a low resolution 30 FPS secondary stream with moderate ONVIF Profile S motion metadata.

NVR6 Value with Unity Video 8 and Unity Access 7 Virtual Machine Running Concurrently

Configuration	Recording		Livestream		Playback	
	Rate	Channels	Rate	Channels	Rate	Channels
1 GbE Non-Teamed (Multiple Connections)						
32 video channels, 50 doors	Up to 208 Mbps	Up to 32	Up to 208 Mbps	Up to 32	Up to 130 Mbps	Up to 20

Unity Video 8 workload assumes each video channel consists of a H.264/H.265 2MP 30 FPS primary stream and a low resolution 30 FPS secondary stream with moderate ONVIF Profile S motion metadata.

Unity Access 7 workload assumes 50 Doors with 2 Panels at 2 Transactions per second and 1 Daily Report per day. Requires Unity Access 7 Virtual Hyper-V Appliance License (UA-SW-LIC-APP-VIRTUAL-HYPERV) and 305 GB storage allocation.

Specifications

System		
Capacity		6/12/16/24 TB[1]
Avigilon Unity Video/Avigilon Control Center™ Edition		Pre-installed with Unity Video 8 or ACC7 from chooser menu (Compatible with Core, Standard, or Enterprise. Licenses sold separately).
Operating System		Windows 11 IoT Enterprise LTSC 24H2
Network Interface		2 × 1 GbE RJ-45 ports (1000Base-T)
Hard Disk Drive Configuration	Video Data	RAID 5 Up to 4 × 3.5" SATA Drives, hot-swappable (6/12/24 TB) RAID 5 Up to 3 × 3.5" SATA Drives, hot-swappable (16 TB)
	Operating System	OS on RAID 5 Array
Recording Storage Capacity		Up to 32 TB raw; 24 TB effective (RAID 5)[2]
Memory		1 × 16 GB DDR5
Processor		1 × Intel® 6-core Xeon®
Video Outputs		1 × VGA
Appearance Search and Facial Recognition on Avigilon Analytic Cameras		Requires optional analytics kit, sold separately. Refer to the list of features under "Analytics" on page 2 for more information.
Out-of-band Management		iDRAC 9 Express
Warranty		3-year NBD (Next Business Day) warranty with onsite parts delivery service. 2-year extension, 4-hour mission critical, and 5-year keep your drive warranty upgrades available.

[1]NVR6 Value 6 TB model has been discontinued.
[2]305 GB of the effective space should be allocated to run a Unity Access 7 Virtual Machine concurrently with Unity Video 8.

Mechanical	
Form Factor	1U Rack Mount Chassis
Dimensions (H × W × D)	42.8 mm × 482.0 mm × 598.9 mm; 1.7" × 19.0" × 23.6"
Weight	Max: 13.2 kg (29.2 lbs)

Electrical	
Power Input	100 to 240 VAC, 50/60 Hz, auto-switching
Power Supply	600 W Platinum 100-240 VAC or 240 VDC[1]
Power Consumption	600 W, 7.1-3.6 A
Power Efficiency	Platinum

[1]Hot-swappable functionality requires the optional second Power Supply Kit (NVR6-AINVR2X-VAL-FORM-D-PSU-600W-C13-C14).

Environmental	
Operating Temperature	10–35°C (50–95°F) with no direct sunlight on the equipment
Storage Temperature	-40 to 65°C (-40 to 149°F)
Operating Humidity	8% RH with -12°C minimum dew point to 80% RH with 21°C (69.8°F) maximum dew point
Storage Humidity	5% to 95% RH with 27°C (80.6°F) maximum dew point
Operating Vibration	0.21 Grms at 5 Hz to 500 Hz for 10 minutes (all x, y, and z axis)
Storage Vibration	1.88 Grms at 10 Hz to 500 Hz for 15 minutes (all six sides tested)
Operating Shock	Six consecutively executed shock pulses in the positive and negative x, y, and z axis of 6 G for up to 11 ms.
Storage Shock	Six consecutively executed shock pulses in the positive and negative x, y, and z axis (one pulse on each side of the system) of 71 G for up to 2 ms.
Operating Altitude	3,048 meters (10,000 feet)
Storage Altitude	12,000 meters (39,370 feet)

Certifications	
Certifications/Approvals	UL, cUL, CE, NRCS, NOM, RCM, VCCI, BSMI, CCC, KC, UKCA, RoHS, CMIM, BIS
Safety Standards	UL/CSA/IEC/EN 62368-1
Electromagnetic Emissions Standards	FCC Part 15 Subpart B (Class A), ICES-003 (Class A), EN 55032 (Class A), EN 61000-3-2, EN 61000-3-3
Electromagnetic Immunity Standards	EN 55035
Energy Standards	Commission Regulation (EU) No. 617

Supplied Accessories	
Rack Rail System	ReadyRails 1U/2U Static Rails for 2- or 4-post racks
Bezel	1, front
Power Cord	1 total

[X.X]	INCHES
X.X	MM

Outline Dimensions

NVR6 Value Form D (6 12 16 24 TB)

Form Factor

1U Rack Mount Chassis

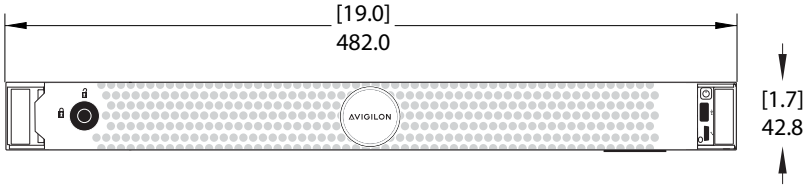
Dimensions (H × W × D)

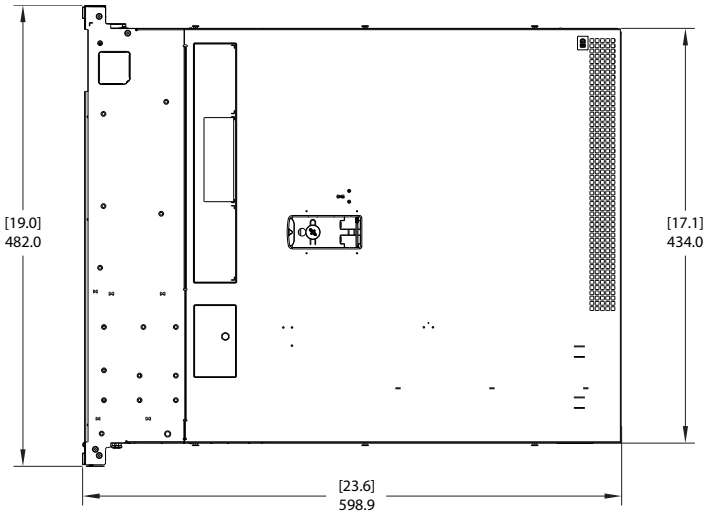
42.8 mm × 482.0 mm × 598.9 mm

1.7" × 19.0" × 23.6"

Weight (when fully populated with hard drives)

13.2 kg [29.2 lbs]





Ordering Information

Part Number	
NVR6-VAL-FORM-D-24TB-C13-C14	NVR6 Value Form D 24 TB (32 TB Raw) with Windows 11 IoT Enterprise LTSC 24H2 and Unity Video 8
NVR6-VAL-FORM-D-16TB-C13-C14	NVR6 Value Form D 16 TB (24 TB Raw) with Windows 11 IoT Enterprise LTSC 24H2 and Unity Video 8
NVR6-VAL-FORM-D-12TB-C13-C14	NVR6 Value Form D 12 TB (16 TB Raw) with Windows 11 IoT Enterprise LTSC 24H2 and Unity Video 8
NVR6-VAL-FORM-D-6TB-C13-C14	(Discontinued) NVR6 Value Form D 6 TB (8 TB Raw) with Windows 11 IoT Enterprise LTSC 24H2 and Unity Video 8
Includes 1 × generic power cord (C13 / C14) only. Regional power cord kits (NVR-FORM-D-SINGLE-POWERCORD-C13-XX where XX=NA/EU/UK/AU) sold separately and must be purchased on the same order as NVR6-VAL-FORM-D-xTB-C13-C14.	

Unity Video 8 - Software Licenses	
UNITY8-ENT	Avigilon Unity Video 8 Enterprise Edition license
UNITY8-STD	Avigilon Unity Video 8 Standard Edition license
UNITY8-COR	Avigilon Unity Video 8 Core Edition license
UNITY8-FACE	Avigilon Unity Video 8 Facial Recognition feature channel license
UNITY8-FACE-10	Avigilon Unity Video 8 Facial Recognition feature 10 channel license
UNITY8-LPR	Avigilon Unity Video 8 LPR lane license

Avigilon Control Center 7 - Software Licenses	
ACC7-ENT	ACC 7 Enterprise Edition license
ACC7-STD	ACC 7 Standard Edition license
ACC7-COR	ACC 7 Core Edition license
ACC7-FACE	ACC 7 Facial Recognition feature channel license
ACC7-FACE-10C	ACC 7 Facial Recognition feature 10 channel license
ACC7-LPR	ACC 7 LPR lane license

Unity Access 7 - Base & Door Licenses	
UA-SW-LIC-APP-VIRTUAL-HYPERV	Unity Access 7 Virtual Hyper-V Appliance License (Required to run Unity Access 7 HyperV Virual Machine on NVR6 Value)
UA-SW-LIC-BASE-PACK	Unity Access 7 Base Package License (includes 20 doors)
UA-SW-LIC-1DOORS	Unity Access 7 1 Door License
UA-SW-LIC-10DOORS	Unity Access 7 10 Door License
UA-SW-LIC-WIRELESS-LOCK	Unity Access 7 Wireless Lock License

Unity Access 7 - Add-on Licenses	
UA-SW-LIC-ALL-IN-ADDON	Unity Access 7 All-in Add-on
UA-SW-LIC-DATA-ADDON	Unity Access 7 Data and Templates Add-on
UA-SW-LIC-AVAILABILITY-ADDON	Unity Access 7 Availability and Network Add-on
UA-SW-LIC-AWARENESS-ADDON	Unity Access 7 Situational Awareness Add-on
UA-SW-LIC-INTEGRATIONS-ADDON	Unity Access 7 Integrations Add-on

Warranty Extensions	
NVR6-AINVR2X-VAL-FORM-D-WARR-EXTEND-2YR	2-year Extended Warranty Upgrade
NVR6-AINVR2X-VAL-FORM-D-WARR-5Y4HMC	5-year 4-Hour-Mission-Critical Warranty Upgrade
NVR6-AINVR2X-VAL-FORM-D-KYD-WARR-5YR	5-year Keep-Your-Drive Warranty Upgrade

Accessories	
NVR6-AINVR2-FORM-D-HDDS-HOT-8TB	Spare hard drive, 8 TB SATA, front bay, compatible with NVR6 Value Form D
NVR6-AINVR2-FORM-D-HDDS-HOT-4TB	Spare hard drive, 4 TB SATA, front bay, compatible with NVR6 Value Form D
NVR6-AINVR2-FORM-D-HDDS-HOT-2TB	Spare hard drive, 2 TB SATA, front bay, compatible with NVR6 Value Form D
NVR6-AINVR2X-VAL-FORM-D-PSU-600W-C13-C14	600 W Hot Plug/Swappable Power Supply Kit, includes 1 × C13/C14 power cord
NVR6-AINVR2X-VAL-FORM-D-ANK	Analytics Kit for NVR6 Value Form D
IDRAC9-ENT-UPG-V2	iDRAC Enterprise upgrade
NVR4/4X/5/6-FORM-D-S22-UPG	Windows Server 2022 Upgrade Kit
NVR-FORM-D-SINGLE-POWERCORD-C13-XX	Power cord, regional variant from options below (XX=NA/EU/UK/AU)

(NA) NEMA 5-15P / C13

(UK) BS1363 / C13

(EU) SCHUKO / C13

(AU) AS3112 / C13

Support

For product support, visit: avigilon.com or sales@avigilon.com

To learn more, visit: avigilon.com/nvr-systems/nvr6

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