

# AI NVR 2 VALUE

6 TB

12 TB

16 TB

24 TB

3-YEAR WARRANTY

Tailor-made for small-to-medium-sized enterprise sites with up to 50 cameras per NVR, our cloud-ready Artificial Intelligence Network Video Recorder 2 Value (AI NVR 2 Value) bridges the IT resource and analytics gaps, modernizing your video security infrastructure. This second generation of AI NVR Value series now offers twice the storage, surpassing its predecessor to meet all your data needs.

Protect critical assets with advanced server-based analytics, AdaptAI 5<sup>1</sup>, deployable with any ONVIF-conformant cameras using the AI NVR 2 Value. Security teams can locate people or vehicles of interest with Avigilon Appearance Search, identify people of interest on a watchlist with Facial Recognition and detect brandished firearms using Visible Firearm Detection<sup>2</sup> — no matter what the current camera landscape looks like.



## FEATURES



### SERVER-SIDE ANALYTICS FOR NON-ANALYTIC CAMERAS<sup>3</sup>

Bring Classified Object Detection, Appearance Search, Face Recognition, No Face Mask Detection, License Plate Recognition and Visible Firearm Detection to your existing non-analytic cameras.



### EASY DEVICE MANAGEMENT

Avigilon AI NVR, Cameras, and Clients can all be remotely upgraded together with a single signed and encrypted firmware package.



### ENHANCED SECURITY

Minimize attack vectors, as all AI NVRs run the Avigilon Hardened OS on an encrypted solid state drive.



### COST-EFFICIENT

Achieve lower deployment costs with a single device that has the ability to perform as an NVR and an analytics-enabled appliance.



### AVIGILON 3-YEAR WARRANTY

We back our AI NVRs with a 3-Year Warranty, with Next Business Day onsite support, and 24/7 lifetime phone support.

<sup>1</sup> Formerly Next-Generation Video Analytics.

<sup>2</sup> VFD is currently only available in the U.S.

<sup>3</sup> Requires installation of one of the optional Analytics kit accessories (AINVR2-VAL-ANK or AINVR2-VAL-ANK-PLUS) on the AI NVR 2 Value.

# ANALYTICS



## CLASSIFIED OBJECT DETECTION™ (COD)

Detects and classifies people or vehicles to help operators respond faster. Unusual Activity Detection (UAD) automatically detects atypical behavior of learned objects.

ACC7-VAC license required



## AVIGILON APPEARANCE SEARCH™ (AS)

Quickly locates a specific person or vehicle of interest across an entire site using a sophisticated deep learning AI search engine.

ACC Enterprise required



## FACE RECOGNITION (FR)

Detects matches from managed watchlists to alert operators of people of interest. Requires Appearance Search and an additional license.

ACC7-FACE license required



## VISIBLE FIREARM DETECTION (VFD)

Detects visible handguns and long guns handled by humans. Requires an AI NVR with an additional license.

ACC7-VFD-1YR license required



## OCCUPANCY COUNTING

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

ACS Required



## LICENSE PLATE RECOGNITION

Works with ACC software for accurate license plate capture at a range of distances and speeds.

ACC7-LPR license required

AI NVR 2 MODEL	ANALYTICS CAMERAS <sup>1</sup>			NON-ANALYTIC CAMERAS <sup>1</sup>				NUMBER OF LPR LANES <sup>2</sup>					
	AS ONLY <sup>4</sup>	AS+FR <sup>4</sup>	COD ONLY <sup>3</sup>	COD+AS <sup>4</sup>	COD+AS +FR <sup>4</sup>	COD+AS <sup>4</sup> +VFD <sup>5</sup>	COD+AS <sup>4</sup> +FR	DEFAULT MODE			PERFORMANCE MODE <sup>6</sup>		
								10 FPS <48 KM/H	20 FPS <100 KM/H	30 FPS <150 KM/H	10 FPS <48 KM/H	20 FPS <100 KM/H	30 FPS <150 KM/H
Value	-	-	-	-	-	-	-	8	4	2	-	-	-
Value w/ kit <sup>7</sup>	90	31	4	4	3	2	1	10	5	3	14	7	4
Value w/ kit+ <sup>8</sup>	90	70	9	9	8	5	4	10	5	3	21	10	7

<sup>1</sup> These performance figures are based on validation testing by Avigilon, using Avigilon Control Center 7.14.20 software. Assumes appliance-wide average per camera rates of classified objects leaving the field of view: H5A cameras – one every second; H4A cameras – one every two seconds; non-analytics cameras running COD – one every second.

<sup>2</sup> 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.

<sup>3</sup> For cameras at 2MP and 30 frames per second (fps).

<sup>4</sup> Requires H5A, H4A cameras, or Classified Object Detection running on non-analytic cameras.

<sup>5</sup> VFD is currently only available in the United States. When enabling VFD, Avigilon cameras must disable analytics on the camera, enable COD, and count the camera as a non-analytic camera.

<sup>6</sup> Requires LPR Performance mode to be enabled. LPR Performance mode will limit other analytics on your AI NVR. See the AI NVR user guide for more information.

<sup>7</sup> Requires installation of the AINVR-VAL-ANK Analytics Kit on the AI NVR 2 Value.

<sup>8</sup> Requires installation of the AINVR-VAL-ANK-PLUS Analytics Plus Kit on the AI NVR 2 Value.

## DEVICE TYPES SUPPORTED FOR ANALYTICS

Avigilon H.264 Analog Encoders

Avigilon HD H.264, H3, H3 Multisensor, H4 SL, H4 Mini dome, H4 Box, H4 Bullet, H4 Dome, and H4 Pro cameras

Avigilon H4A cameras operating for Unusual Motion Detection

Avigilon H5Pro, H5 and H4 Multisensor cameras in high frame-rate mode. H5M, H5SL, H5DH, H6M, and H6SL cameras with analytics disabled.

ONVIF® Profile S cameras

ONVIF encoders

Third-party devices (MJPEG, MPEG4, H.264, H.265/HEVC) supported by ACC. For more information, see [avigilon.com/products/acc/supported-cameras](http://avigilon.com/products/acc/supported-cameras).

# SPECIFICATIONS

SYSTEM		
Capacity	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; border-radius: 15px; padding: 5px 15px; background-color: #0070c0; color: white;">24 TB</div> <div style="border: 1px solid black; border-radius: 15px; padding: 5px 15px; background-color: #0070c0; color: white;">16 TB</div> <div style="border: 1px solid black; border-radius: 15px; padding: 5px 15px; background-color: #0070c0; color: white;">12 TB</div> <div style="border: 1px solid black; border-radius: 15px; padding: 5px 15px; background-color: #0070c0; color: white;">6 TB</div> </div>	
Avigilon Control Center™ Edition	Core, Standard, and Enterprise* compatible (ACC camera licenses are sold separately)	
Network Video Streaming Performance	Network Connection	1GbE Networking
	Recording Rate	Up to 550 Mbps (6/12/24 TB) Up to 450 Mbps (16 TB)
	Playback Rate	Up to 300 Mbps (6/12/24 TB) Up to 250 Mbps (16 TB)
Operating System	Avigilon Hardened OS, supports secure remote upgrades	
Drive Configuration	OS Boot	2 × 32 GB microSD RAID 1
	Video Data	RAID 5 — 4 × 3.5", hot-swappable (6/12/24 TB) RAID 5 — 3 × 3.5", hot-swappable (16 TB)
Recording Storage Capacity	Up to 32 TB raw, 24 TB effective (RAID 5)	
Network Interface	2 × 1 GbE RJ-45 ports (1000Base-T)	
Memory	2 × 8 GB	
Processor	1 × Intel® 6-core Xeon®	
Local Viewing	No video outputs — Web-based administration only	
Appearance Search and Facial Recognition on Avigilon Analytic Cameras	Not included, optional analytics kit sold separately	
License Plate Recognition Support	Included	
Out-of-band Management	iDRAC 9 Express	
Warranty	3-year NBD (Next Business Day). 2-year extension, 4-hour mission critical, and 5-year keep your drive warranty upgrades available	
* Avigilon Appearance Search, facial recognition and visible firearm detection requires Enterprise version of the ACC software.		

ELECTRICAL		
Power Input	100 to 240 V AC, 50/60 Hz, auto-switching	
Power	Supply	Single 450W (80 PLUS Platinum), non-hot-swappable and non-redundant only
	Consumption	Maximum 450 W (1725 BTU/hr)
Power Efficiency	Platinum	

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

CERTIFICATIONS	
Certifications/Directives	UL, cUL, CE, RCM, UKCA, NOM, BSMI, CCC, KC, NRCS, VCCI
Safety	UL/CSA/IEC/EN 62368-1 (3rd ed) EN IEC 62368-1:2020_A11:2020
Electromagnetic Emissions	FCC Title 47 CFR Part 15, ICES-003(A) Issue 7, EN 55032:2015 +A11:2020/CISPR 32:2015 +A1:2019, EN 61000-3-2:2014/IEC 61000-3-2:2014, EN 61000-3-3:2013/IEC 61000-3-3:2013
Electromagnetic Immunity	EN 55035:2017 +A11:2020/CISPR 35:2016

ENVIRONMENTAL	OPERATING	STORAGE
Temperature	10° C to 30° C (50° F to 86° F)	-40° C to 65° C (-40° F to 149° F)
Humidity	8% relative humidity with -12°C (10.4°F) min dew point to 80% relative humidity with 21°C (69.8°F) max dew point	5% to 95% RH with 27°C (80.6°F) maximum dew point
Vibration	0.21 Grms at 5 Hz to 500 Hz for 10 minutes	1.88 Grms at 10 Hz to 500 Hz for 15 min
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 6 G for up to 11 ms	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
Altitude	3,048 m (10,000 ft)	12,000 m (39,370 ft)

# OUTLINE DIMENSIONS

[X.X]	INCHES
X	MM

## AI NVR 2 VALUE

### FORM FACTOR

1U rack mount chassis

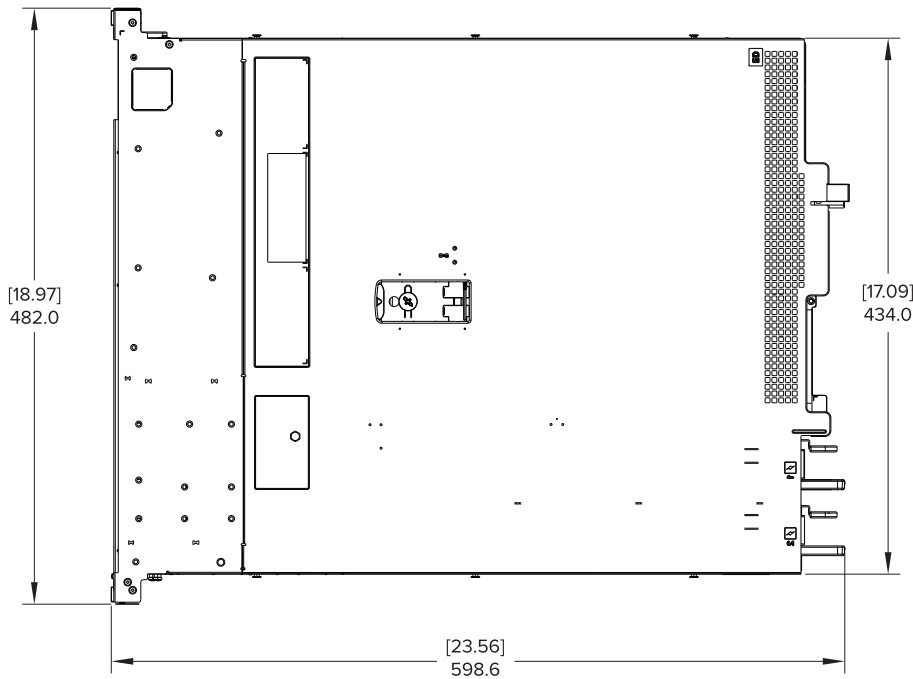
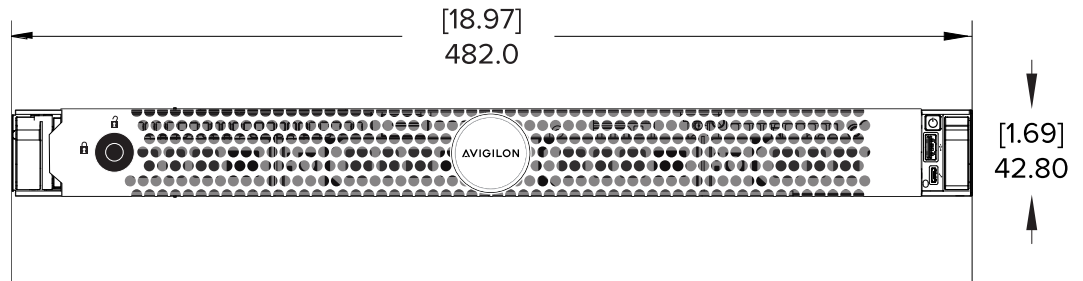
### DIMENSIONS (L x W x H)

598.6 mm x 482.0 mm x 42.8 mm

[23.56" x 18.97" x 1.69"]

### WEIGHT

12.5 kg [27.5 lbs]



# ORDERING INFORMATION

## AI NVR 2 VALUE

AINVR2-VAL-24TB	AI NVR 2 Value 24 TB (32 TB Raw) with Avigilon Control Center, 3 Year Next Business Day Warranty
AINVR2-VAL-16TB	AI NVR 2 Value 16 TB (24 TB Raw) with Avigilon Control Center, 3 Year Next Business Day Warranty
AINVR2-VAL-12TB	AI NVR 2 Value 12 TB (16 TB Raw) with Avigilon Control Center, 3 Year Next Business Day Warranty
AINVR2-VAL-6TB	AI NVR 2 Value 6 TB (8 TB Raw) with Avigilon Control Center, 3 Year Next Business Day Warranty

Avigilon Control Center licenses must be purchased separately.

Avigilon Appearance Search, facial recognition and visible firearm detection requires Enterprise version of the ACC software.

AINVR2-VAL-*nn*TB-NA



AINVR2-VAL-*nn*TB-UK



AINVR2-VAL-*nn*TB-EU



AINVR2-VAL-*nn*TB-AU



## SOFTWARE LICENSES

ACC7-ENT	ACC 7 Enterprise Edition license
ACC7-STD	ACC 7 Standard Edition license
ACC7-COR	ACC 7 Core Edition license
ACC7-VAC	ACC 7 Video Analytics feature channel license — Required for Classified Object Detection
ACC7-FACE	ACC 7 Face feature channel license
ACC7-FACE-10C	ACC 7 Face feature 10 channel license
ACC7-LPR	ACC 7 LPR lane license
ACC7-VFD-1YR	ACC 7 Visible Firearm Detection channel subscription license (includes ACC7-VAC). VFD is currently only available in the United States. The license is not available on eCommerce and must be ordered manually through Customer Order Management.

## OPTIONS AND ACCESSORIES

AINVR2-VAL-ANK	Analytics Kit for AINVR2-VAL
AINVR2-VAL-ANK-PLUS	Analytics Plus Kit for AINVR2-VAL
AINVR-HDDS-HOT-8TB	Spare hard drive, 8TB, for AINVR2-VAL 16TB and 24TB
AINVR-HDDS-HOT-4TB	Spare hard drive, 4TB, for AINVR2-VAL 12TB
AINVR-HDDS-HOT-2TB	Spare hard drive, 2TB, for AINVR2-VAL 6TB
AINVR2-VAL-IDRAC9-ENT-UPG	iDRAC Enterprise upgrade
AINVR2-VAL-WARR-5Y4HMC	5-year 4-Hour-Mission-Critical Warranty Upgrade for AI NVR 2 VAL. Must be purchased together with AINVR2-VAL-WARR-EXTEND-2YR at the same time of purchase as your AI NVR 2 VAL.
AINVR2-VAL-WARR-EXTEND-2YR	2-year warranty extension for AI NVR 2 VAL
AINVR2-VAL-KYD-WARR-5YR	Keep Your Drive 5-year warranty upgrade for AI NVR 2 VAL

## SUPPORT

Learn more and find additional documentation at [avigilon.com](https://www.avigilon.com) or email [sales@avigilon.com](mailto:sales@avigilon.com) for specific product support.



Oct 2023 | Rev 1

© 2023, Motorola Solutions, Inc. All rights reserved. MOTOROLA, MOTO, MOTOROLA SOLUTIONS, and the Stylized M Logo are trademarks or registered trademarks of Motorola Trademark Holdings, LLC and are used under license. AVIGILON, the AVIGILON logo, AVIGILON CONTROL CENTER, ACC, HDSM SmartCodec and LIGHTCATCHER are trademarks of Avigilon Corporation. The absence of the symbols ™ and ® in proximity to each trademark in this document or at all is not a disclaimer of ownership of the related trademark. All other trademarks are the property of their respective owners.

[sales@avigilon.com](mailto:sales@avigilon.com) | [avigilon.com](https://www.avigilon.com)