

# AVIGILON™

## AI Appliance 2X

Enhance your security with Server-side Analytics and Generative AI



Upgrade your existing security system with the **Avigilon AI Appliance 2X** to enhance site security and accelerate incident response. This server-side solution adds powerful video analytics to detect people, vehicles, and faces across your site. Now featuring integrated Generative AI, the appliance allows you to monitor for environmental hazards and create highly specific alerts - like "car on fire in the parkade" - using simple natural language. It's an efficient way to address critical security gaps without replacing your current hardware.



### On-premise Generative AI

Visual Alerts - Go beyond people and vehicle detection: Identify specific events, from spills to complex object relationships, to enhance operational awareness.



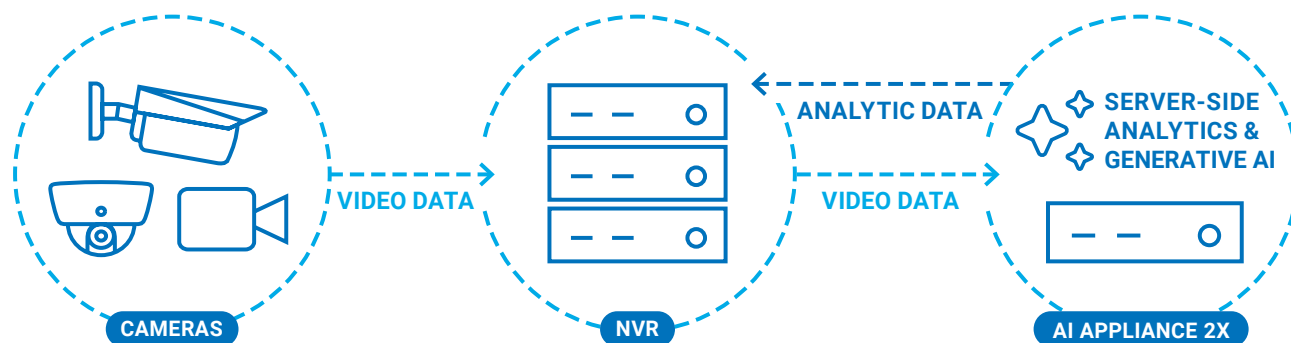
### Turnkey and secure deployment

A managed solution purpose-built for security and IT teams with easy setup and secure operation.



### Avigilon server-side video analytics and Generative AI

Enable Classified Object Detection, Appearance Search, Facial Recognition, Visual Alerts, and Occupancy Counting to existing cameras.



**MOTOROLA SOLUTIONS**

# Avigilon Server-side Video Analytics and Generative AI



## Classified Object Detection™ (COD)

Detects and classifies people and vehicles to help operators respond faster. Unusual Activity Detection (UAD) automatically detects atypical behavior of learned objects.  
UNITY8-ENT 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.  
UNITY8-ENT required



## Facial Recognition (FR)

Detects matches from managed face watchlists to alert operators of people of interest. Requires Appearance Search and an additional license.  
UNITY8-ENT and UNITY8-FACE required



## Visual Alerts

Use natural language to setup alerts for custom objects and scenarios, beyond just people and vehicles.



## Occupancy Counting

With cameras at entrances and exits, a running total of occupancy can be monitored in real time.  
Unity Video Cloud Services required

## Visual Alerts Channel Sizing/Analysis Period

While multiple AIA2X appliances can be part of a Unity Site, only one AIA2X can be configured for Visual Alerts per site.

Number of Visual Alerts	Number of Channels per Visual Alert												
	8	16	24	32	40	48	56	64	72	80	88	96	100
5	5s	10s	15s	20s	25s	30s	35s	40s	45s	50s	55s	57s	60s
10	10s	20s	30s	40s	50s	60s	×	×	×	×	×	×	×
15	15s	30s	45s	60s	×	×	×	×	×	×	×	×	×
20	20s	40s	60s	×	×	×	×	×	×	×	×	×	×
25	25s	50s	×	×	×	×	×	×	×	×	×	×	×
30	30s	60s	×	×	×	×	×	×	×	×	×	×	×
35	35s	×	×	×	×	×	×	×	×	×	×	×	×

× The GPU load factor will prevent addition of additional cameras or prompts. Analysis rate is based on load factors using 2MP H264 camera resolution at 1 key frame per second.

## Non-Analytic Camera Channel Capacity

Model <sup>1</sup>	Visual Alerts	COD	COD+AS <sup>2</sup>	COD+AS+FR <sup>2</sup>
CG3	Enabled	80	80	58
	Disabled	160	160	116
CG2	Enabled	Classified Object Detection is not available when Visual Alerts is enabled		
	Disabled	80	80	57

<sup>1</sup> Must be connected to an NVR, AI NVR, or another recorder running Unity Video 8.7.3.4 Enterprise software or later. These performance figures are based on validation testing by Avigilon, using Unity Video 8.7.3.4 Enterprise software, and cameras at 2MP and 30 images per second (ips).

<sup>2</sup> AS and FR are only available for cameras with server-side COD enabled.

See [Device Types Supported for Server Side Analytics](#) in the [Analytics Sizing Guide](#) for device requirements and restrictions.

# Specifications

System	AIA2X CG2		AIA2X CG3	
Avigilon Unity Video™ Edition	Pre-installed with Unity Video 8 Enterprise, incompatible with ACC7 Enterprise			
Operating System	Avigilon Hardened OS			
Processor	1 × Intel® Xeon®		2 × Intel® Xeon®	
Memory	4 × 16GB DDR5		8 × 16 GB DDR5	
Drive Configuration	Mirrored OS - 2 × 480GB M2 drives, RAID 1			
Recording Storage Capacity	None			
Graphics Processor	1 × NVIDIA Data Center Class GenAI-ready GPU		2 × NVIDIA Data Center Class GenAI-ready GPU	
Network Interface	6 × 1 GbE RJ-45 ports		2 × 10 GbE SFP+ ports, 6 × 1 GbE RJ-45 ports	
Network Connection (10 GbE or 1 GbE Teamed - Multiple Connections)	Up to 1500 Mbps <sup>1</sup>		Up to 1500 Mbps	
Network Connection (1 GbE - Non-Teamed - Multiple Connections)	Up to 800 Mbps		Up to 800 Mbps	
Video Outputs	None			
Local Viewing	No - Web-based administration only			
Out-of-band Management	iDRAC9 Express (factory installed), Enterprise upgrade available			
TPM	TPM 2.0 V3			
Warranty	3-Year Next Business Day			

<sup>1</sup>10 GbE optional, with 10 GbE Kit (NVR6-AINVR2-FORM-D-10GBE) sold separately.

Mechanical	AIA2X CG2		AIA2X CG3	
Form Factor	2U Rack Mount Form D Analytics Class Chassis			
Dimensions	772.1 mm × 482.0 mm × 86.8 mm 30.39" × 18.98" × 3.42"			
Weight	22.5 kg (50 lbs)		22.8 kg (50 lbs)	

Electrical	AIA2X CG2		AIA2X CG3	
Power Input	100 to 240 VAC, 50/60 Hz, auto-switching			
Power Supply	Dual redundant (1+1) 2400 W, reduces to 1400W @ 100 to 120 VAC			
Power Consumption	Maximum 701 W (2392 BTU/h)		Maximum 1013 W (3456 BTU/h)	
Power Efficiency	Platinum			

Environmental	AIA2X CG2	AIA2X CG3
Operating Temperature	10°C to 35°C (50°F to 95°F)	
Storage Temperature	-40° C to 65° C (-40° F to 149° F)	
Operating Humidity	8% to 80% relative humidity with 21°C (69.8°F) max dew point	
Storage Humidity	5% to 95% RH with 27°C (80.6°F) max dew point. Atmosphere must be non-condensing at all times.	
Operating Vibration	0.21 Grms at 5 Hz to 500 Hz	
Storage Vibration	1.88 Grms at 10 Hz to 500 Hz	
Operating Shock	6 G	
Storage Shock	71 G	
Operating Altitude	3,050 m (10,000 ft)	
Storage Altitude	12,000 m (39,370 ft)	

Certifications	AIA2X CG2	AIA2X CG3
Certifications/Approvals	UL, cUL, UKCA, CE, NRCS, NOM, RCM, VCCI, BSMI, CCC, KC, RoHS, CMIM, EAC, 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	

Supplied Accessories	AIA2X CG2	AIA2X CG3
Rack Rail System	ReadyRails Sliding Rails with Cable Management Arm	
Bezel	1, front	
Power Cord <sup>1</sup>	2 × C19 / C20 region-agnostic power cords	

<sup>1</sup>C19 regional power cords are sold separately (AIA-FORM-D-DUAL-POWERCORD-C19-XX where XX=NA/UK/EU/AU).

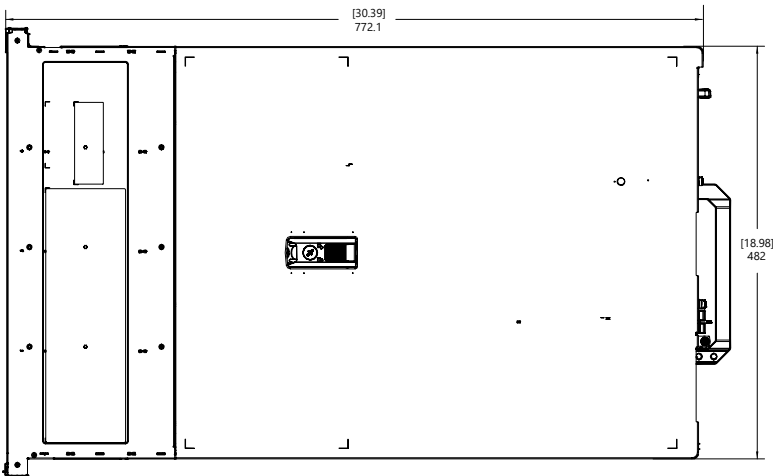
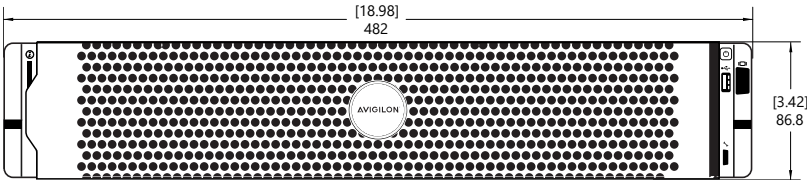
(NA) NEMA 5-15P		(UK) BS1363		(EU) SCHUKO		(AU) AS3112	
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# Outline Dimensions

[X.X]	INCHES
X.X	MM

## AI Appliance 2X, CG2 and CG3 models

Form Factor  
 2U Rack Mount Form D Analytics Class Chassis  
 Dimensions (L × W × H)  
 [30.4" × 18.98" × 3.42"]  
 772.1 mm × 482.0 mm × 86.8 mm  
 Weight  
 22.54 kg [50 lbs]







# Ordering Information

## AI Appliance 2X

AIA2X-FORM-D-CG2-HW-C19-C20	AI Appliance 2X, CG2 model with Avigilon Hardened OS and Unity Video 8. Includes 3-Year Next Business Day Warranty.
AIA2X-FORM-D-CG3-HW-C19-C20	AI Appliance 2X, CG3 model with Avigilon Hardened OS and Unity Video 8. Includes 3-Year Next Business Day Warranty.
Includes 2 x C19 / C20 power cords. Regional power cords sold separately (AIA-FORM-D-DUAL-POWERCORD-C19-XX where XX=NA/EU/UK/AU).	

### Regional Power Cords

AIA-FORM-D-DUAL-POWERCORD-C19-XX		2 x C19 Power cord, regional variant from options below (XX=NA/UK/EU/AU)					
(NA) NEMA 5-15P / C13		(UK) BS1363 / C13		(EU) SCHUKO / C13		(AU) AS3112 / C13	

### Software Licenses

UNITY8-ENT	Avigilon Unity Video 8 Enterprise Edition camera channel license, includes Server-side Analytics for Classified Object Detection & Appearance Search (formerly requiring UNITY8-VAC), and Visual Alerts on the appropriate hardware.
UNITY8-FACE	Avigilon Unity Video 8 Facial Recognition feature channel license
UNITY8-FACE-10	Avigilon Unity Video 8 Facial Recognition feature 10 channel license

### Warranty Options

AIA2X-FORM-D-CG2-WARR-EXTEND-2YR	2-Year Next Business Day Warranty Extension for AI Appliance 2X CG2 model
AIA2X-FORM-D-CG2-WARR-5Y4HMC	5-Year 4-Hour-Mission-Critical Warranty Upgrade for AI Appliance 2X CG2 model. Must be purchased together with AIA2X-FORM-D-CG2-WARR-EXTEND-2YR.
AIA2X-FORM-D-CG3-WARR-EXTEND-2YR	2-Year Next Business Day Warranty Extension for AI Appliance 2X CG3 model
AIA2X-FORM-D-CG3-WARR-5Y4HMC	5-Year 4-Hour-Mission-Critical Warranty Upgrade for AI Appliance 2X CG3 model. Must be purchased together with AIA2X-FORM-D-CG3-WARR-EXTEND-2YR.

### Accessories

NVR6-AINVR2-FORM-D-SFPPLUS-SR	SFP+ Transceivers for Short Range (Multi-mode) on server side
IDRAC9-ENT-UPG-V2	iDRAC Enterprise upgrade version 2
NVR6-AINVR2-FORM-D-10GBE	Network Card, Dual Port 10 GbE SFP+. AI Appliance 2X CG2 model only.
NVR6-AINVR2-STDPRM-FORM-D-STATIC-RAIL	Static Rail Kit

## Support

For product support, visit: [avigilon.com](https://www.avigilon.com) or [sales@avigilon.com](mailto:sales@avigilon.com)



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