

AVIGILON™

AI Appliance 2X

Enhance your security with on-premise
Generative AI



Upgrade your operational awareness far beyond standard motion detection with the **Avigilon AI Appliance 2X**. Use natural language to create site-specific alerts such as "Alert me when fire or smoke is detected" with on-premise Generative AI. Quickly detect people, vehicles, and faces with Avigilon Video analytics providing an efficient way to address critical security gaps without replacing your current hardware.



Generative AI and advanced analytics

Use simple natural language to monitor for unique scenarios, such as "Alert me when a person is lying on the floor." Pair with AdaptAI analytics like Classified Object Detection, Appearance Search, and Facial Recognition on your existing cameras.



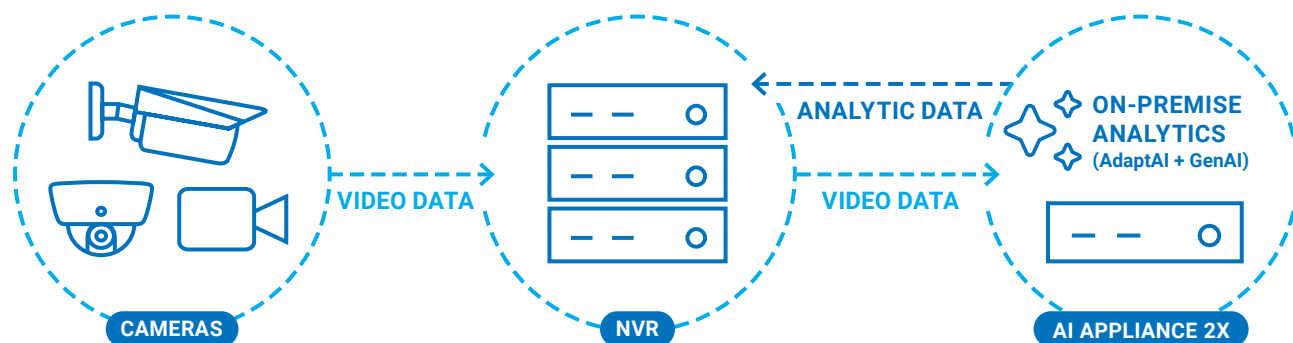
Turnkey and secure deployment

A managed solution purpose-built for security and IT teams with easy setup and secure operation. AI Appliance 2X is pre-configured with Unity Video 8 firmware and the Avigilon Hardened OS, ensuring a secure and seamless setup right out of the box.



Fully on-premise solution

Designed for high-security sites: AI Appliance 2X ensures your video never leaves your site. Because all Generative AI and video analytics are processed on-premise, your sensitive data stays within your own network infrastructure.



MOTOROLA SOLUTIONS

Video Analytics

Generative AI



Visual Alerts

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

Examples of Visual Alerts include:



Fallen Person

"Alert me when a person is lying on the floor."

Rapidly detect slip-and-fall incidents or medical emergencies in real-time, enabling faster response times for staff and emergency services.



PPE Compliance

"Alert me when a person is visible without a hard hat."

Automatically monitor for PPE compliance and safety protocol violations to maintain regulatory standards and reduce workplace liability.



Fire Detection

"Alert me when fire or smoke is detected."

Provides an additional layer of early warning by identifying visual indicators of fire in areas where traditional smoke detectors may be impractical or slow to trigger.



Public Safety

"Alert me when a person is climbing over a fence or wall."

Protect perimeters and restricted zones by detecting unauthorized access or suspicious behavior. Identify climbing or loitering to prevent security breaches.

AdaptAI



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.



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.



Facial Recognition (FR)

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

UNITY8-FACE required



Occupancy Counting

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

Unity Video Cloud Services required

Video Analytics Specifications

Model ¹	Mode	Generative AI	AdaptAI	
		Visual Alerts	Classified Object Detection + Appearance Search ²	Classified Object Detection + Appearance Search + Facial Recognition ²
CG3	GenAI only	5 alerts on up to 200 channels		
	GenAI + AdaptAI	5 alerts on up to 100 channels	80 channels	58 channels
	AdaptAI only		160 channels	116 channels
CG2	GenAI only	5 alerts on up to 100 channels		
	AdaptAI only		80 channels	57 channels

¹ Must be connected to an NVR, AI NVR, or another recorder running Unity Video 8.8 Enterprise software or later. These performance figures are based on validation testing by Avigilon, using Unity Video 8.8 Enterprise software, and cameras at 2MP and 30 images per second (ips).

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

For more information about analytics sizing and device type requirements, see the [Analytics Sizing Guide](#).

Specifications

System	AIA2X CG2		AIA2X CG3	
Avigilon Unity Video™ Edition	Pre-installed with Unity Video 8 firmware, compatible with Unity Video 8 Enterprise sites only			
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 ¹		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 (optional warranty SLA upgrades and extensions sold separately)			

¹10 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 ¹	2 × C19 / C20 region-agnostic power cords	

¹C19 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
 

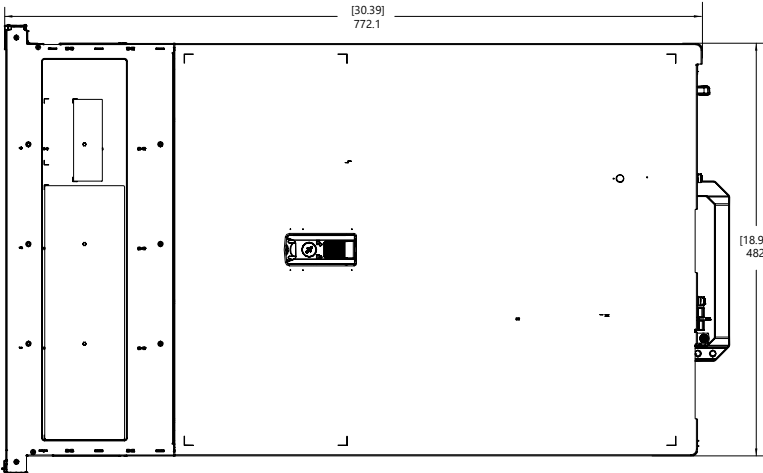
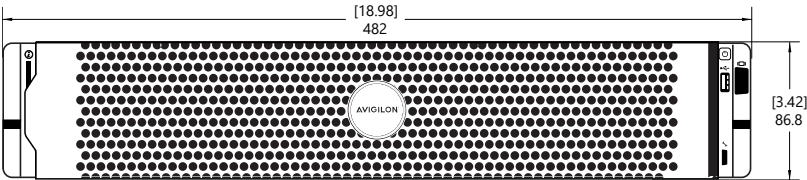
(AU) AS3112
 

[X.X]	INCHES
X.X	MM

Outline Dimensions

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



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