

AVIGILON™

AI Appliance

Enhance your security with Server-side Analytics and Generative AI



Enhance your site security and improve incident response times with the **Avigilon AI Appliance**, enabling advanced video analytics on existing cameras. The **AI Appliance** addresses critical security gaps without costly hardware replacements, supports up to 160 cameras and delivers Server-side Analytics. Future-proof your security infrastructure with the **AI Appliance 2X CG3**, which leverages the latest advancements in Generative AI for improved situational awareness.



Server-side Analytics

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



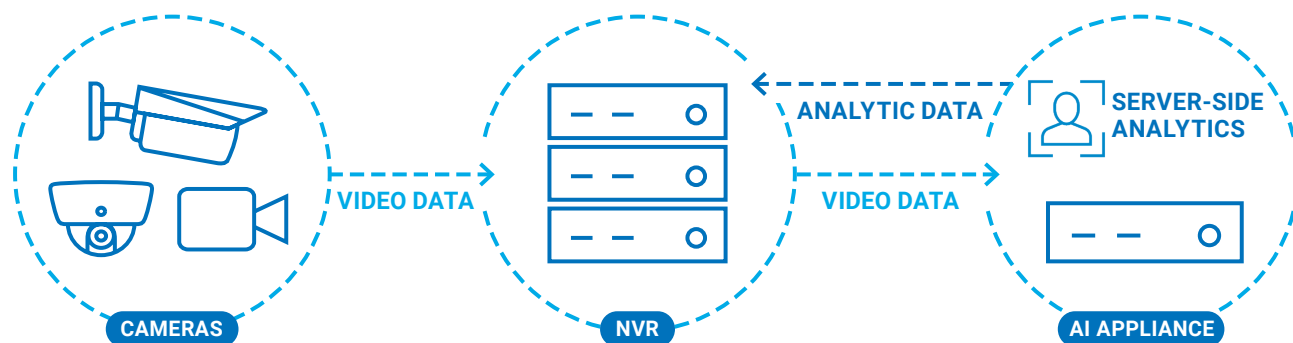
Turnkey and secure deployment

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



On-premise Generative AI ready

The Generative AI-ready CG3 model will be expanding the range of detections and simplifying configuration using natural language prompts, coming soon in a future Avigilon Unity Video 8 release.



Server-side 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.

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 watchlists to alert operators of people of interest. Requires Appearance Search and an additional license.

UNITY8-ENT and 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

Model ¹	Non-Analytic Camera Channel Capacity		
	COD	COD+AS ²	COD+AS+FR ²
CG2	80	80	57
CG3	160	160	116

¹ Must be connected to an NVR, AI NVR, or another recorder running Unity Video 8.5.1 Enterprise software or later. These performance figures are based on validation testing by Avigilon, using Unity Video 8.5.1 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.

Device Types Supported for Analytics
H6A/H6X, H6M, H6SL, and H5DH cameras with analytics disabled
Avigilon H5Pro, H5 and H4 Multisensor cameras in high frame-rate mode
Avigilon H4A cameras in Unusual Motion Detection mode
Avigilon H5M, H5SL, and H4SL cameras
Avigilon HD H.264, H3, H3 Multisensor, H4 Mini dome, H4 Box, H4 Bullet, H4 Dome, and H4 Pro cameras
Avigilon H.264 Analog Encoders
ONVIF® Profile S and T cameras, and ONVIF® Encoder (onvif.org)
Third-party devices (MJPEG, MPEG4, H.264, H.265/HEVC) supported by Unity Video. For more information, see avigilon.com/vms/on-premise/supported-devices .

Specifications

System	CG2	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	2 × 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	

¹10 GbE optional, with 10 GbE Kit (NVR6-AINVR2-FORM-D-10GBE) sold separately.

Mechanical	CG2	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	CG2	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	CG2	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	CG2	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	CG2	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
 

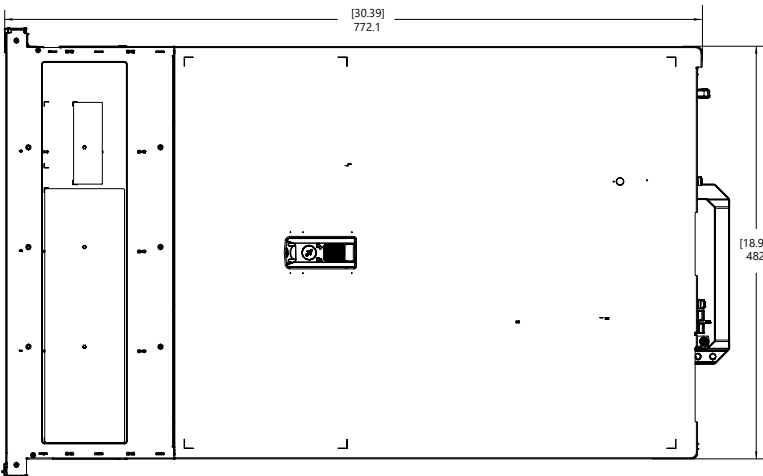
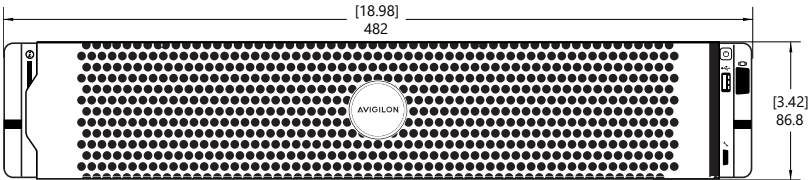
(AU) AS3112
 

Outline Dimensions

[X.XX]	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)
 772.1 mm × 482.0 mm × 86.8 mm
 [30.4" × 18.98" × 3.42"]
 Weight
 22.54 kg [50 lbs]



Ordering Information

AI Appliance 2X CG2

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.
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).	

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)
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-CG3-WARR-EXTEND-2YR.

Accessories

NVR6-AINVR2-FORM-D-SFPPLUS-SR	SFP+ Transceivers for Short Range (Multi-mode) on server side
AIA-FORM-D-DUAL-POWERCORD-C19-XX	2 x C19 Regional power cords (XX=NA/UK/EU/AU) for each AI Appliance 2X CG2 model
IDRAC9-ENT-UPG-V2	iDRAC Enterprise upgrade version 2
NVR6-AINVR2-FORM-D-10GBE	Network Card, Dual Port 10 GbE SFP+
NVR6-AINVR2-STDPRM-FORM-D-STATIC-RAIL	Static Rail Kit

AI Appliance 2X CG3

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).	

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)
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-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
AIA-FORM-D-DUAL-POWERCORD-C19-XX	2 x C19 Regional power cords (XX=NA/UK/EU/AU) for each AI Appliance 2X CG3 model
IDRAC9-ENT-UPG-V2	iDRAC Enterprise upgrade version 2
NVR6-AINVR2-STDPRM-FORM-D-STATIC-RAIL	Static Rail Kit

The **AI Appliance 2X** comes pre-installed with Unity Video 8 (UNITY8). For Unity Video 8 Enterprise Edition, Video Analytic Channel (VAC) licenses are no longer required to enable Server-side Analytics. Each Unity Video 8 Enterprise license (UNITY8-ENT) includes Classified Object Detection (COD) and Appearance Search (AS) Server-side Analytics for a single camera channel. Unity Video 8 Enterprise (UNITY8-ENT) licenses and Face Recognition (UNITY8-FACE) licenses are sold separately from all AI Appliances.

Support

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



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