

# 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** model, 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.



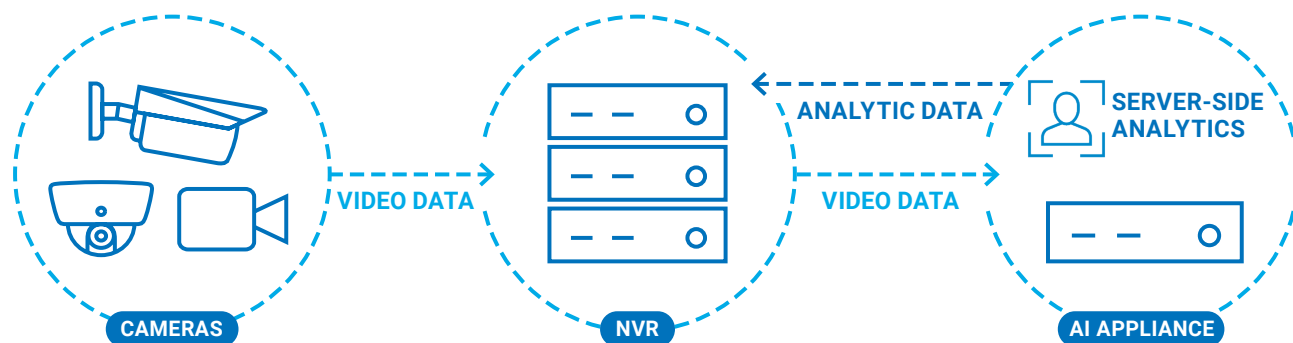
### Turnkey and secure deployment

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.

**Unity Video 8:** UNITY8-ENT required

**Avigilon Control Center 7:** ACC7-ENT and ACC7-VAC 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.

**Unity Video 8:** UNITY8-ENT required

**Avigilon Control Center 7:** ACC7-ENT and ACC7-VAC required



## Facial Recognition (FR)

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

**Unity Video 8:** UNITY8-ENT and UNITY8-FACE required

**Avigilon Control Center 7:** ACC7-ENT, ACC7-VAC, and ACC7-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	Non-Analytic Camera Channel Capacity		
	COD	COD+AS	COD+AS+FR
AIA2X CG3 <sup>1</sup>	160	160	116
AIA2 CG2 <sup>2</sup>	50	50	43

<sup>1</sup> Must be connected to an NVR, AI NVR, or another recorder running Unity Video 8.5.1 Enterprise software or later. Performance figures are based on validation testing by Avigilon using Unity Video 8.5.1 software, and cameras at 2MP and 30 images per second (ips).

<sup>2</sup> Must be connected to an NVR, AI NVR, or another recorder running ACC7 Enterprise or Unity Video 8.5.1 Enterprise software. Performance figures are based on validation testing by Avigilon using Avigilon Control Center 7.12.4 software, and cameras at 2MP and 30 images per second (ips).

## 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](http://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](http://avigilon.com/vms/on-premise/supported-devices).

# Specifications

System	AIA2X CG3		AIA2 CG2	
Avigilon Unity Video™ Edition	Pre-installed with Unity Video 8 Enterprise, incompatible with ACC7 Enterprise		Pre-installed with ACC7 Enterprise, compatible with Unity Video 8 Enterprise	
Operating System	Avigilon Hardened OS			
Processor	2 × Intel® Xeon® CPU			
Memory	8 × 16 GB DDR5		6 × 8 GB DDR4	
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 GPU	
Network Interface	2 × 10 GbE SFP+ ports, 6 × 1 GbE RJ-45 ports		4 × 1 GbE RJ-45 ports	
Network Connection (10 GbE or 1 GbE Teamed - Multiple Connections)	Up to 1500 Mbps		N/A	
Network Connection (1 GbE - Non-Teamed - Multiple Connections)	Up to 800 Mbps		Up to 600 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		TPM 2.0	
Warranty	3-Year Next Business Day			

Mechanical	AIA2X CG3		AIA2 CG2	
Form Factor	2U Rack Mount Form D Analytics Class Chassis		2U Rack Mount Chassis	
Dimensions	772.1 mm × 482.0 mm × 86.8 mm 30.39" × 18.98" × 3.42"		751 mm × 482.0 mm × 86.8 mm 29.57" × 18.98" x 3.42"	
Weight	22.54 kg (50 lbs)		34.5 kg (76 lbs)	

Electrical	AIA2X CG3		AIA2 CG2	
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		Dual non-redundant (2+0) 1100W	
Power Consumption	Maximum 1013 W (3456 BTU/h)		Maximum 1300W (4435.7 BTU/h)	
Power Efficiency	Platinum			

Environmental	AIA2X CG3	AIA2 CG2
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	10% to 80% relative humidity with 29°C (84.2°F) maximum 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.	5% to 95% RH with 33°C (91°F) maximum dew point. Atmosphere must be non-condensing at all times
Operating Vibration	0.21 Grms at 5 Hz to 500 Hz	0.26 Grms at 5 Hz to 350 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 CG3	AIA2 CG2
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 CG3	AIA2 CG2
Rack Rail System	ReadyRails Sliding Rails with Cable Management Arm	Sliding rail system with cable management arm. Supports: <ul style="list-style-type: none"> <li>• Tool-less mounting in 19" wide EIA-310-E compliant square hole and unthreaded round-hole 4-post racks</li> <li>• Toolled mounting in threaded hole 4-post racks</li> </ul>
Bezel	1, front	
Power Cord	2 × C19 / C20 <sup>1</sup> region-agnostic power cords	2 × C13 regional power cords (NA/UK/EU/AU)

<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



[X.X]	INCHES
X	MM

# Outline Dimensions

## AI Appliance 2X CG3 model

### Form Factor

2U Rack Mount Form D Analytics Class Chassis

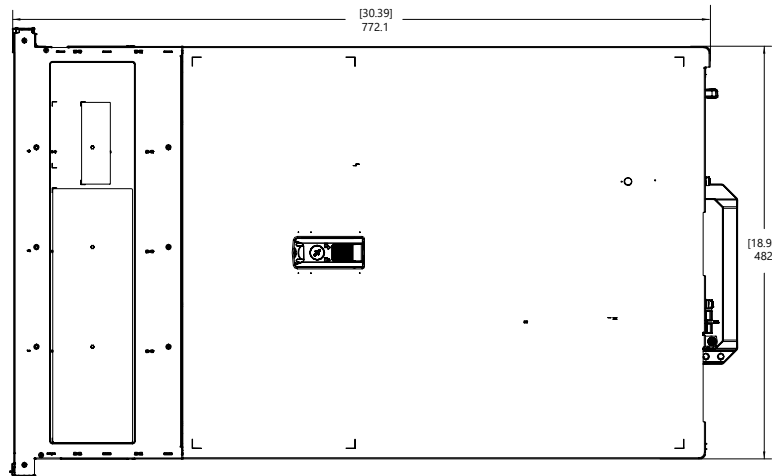
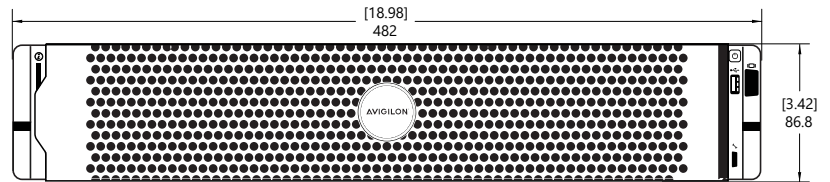
### Dimensions (L × W × H)

772.1 mm × 482.0 mm × 86.8 mm

[30.4" × 18.98" × 3.42"]

### Weight

22.54 kg [50 lbs]



## AI Appliance 2 CG2 model

### Form Factor

2U Rack Mount Chassis

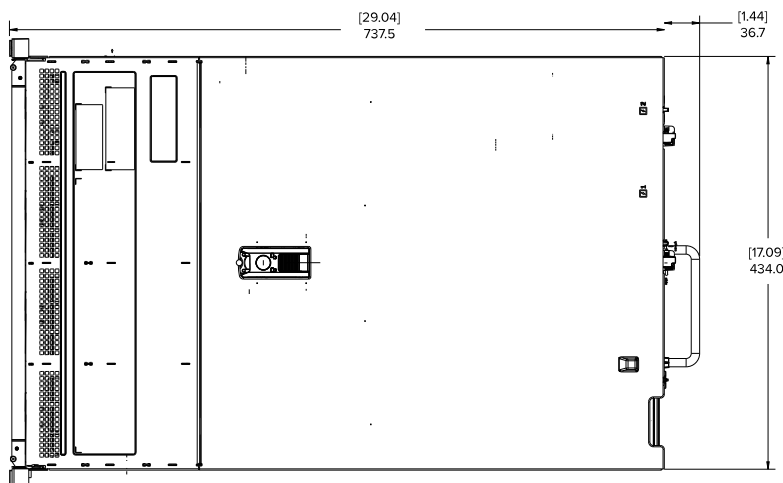
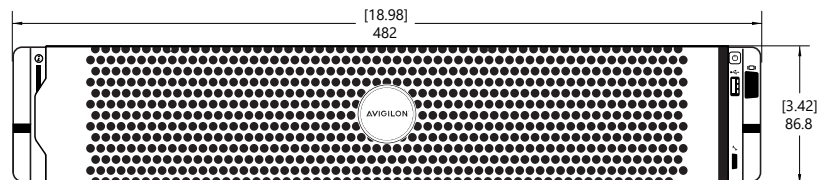
### Dimensions (L × W × H)

751 mm × 482.0 mm × 86.8 mm

[29.57" × 18.98" × 3.42"]

### Weight

34.5 kg [76 lbs]



# Ordering Information

## 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

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	iDRAC Enterprise upgrade
NVR6-AINVR2-STDPRM-FORM-D-STATIC-RAIL	Static Rail Kit

## AI Appliance 2 CG2

VMA-AIA2-CG2-XX	AI Appliance 2, CG2 Model with Avigilon Hardened OS and ACC7 - Includes 3-Year Next Business Day Warranty, 30 x ACC7-VAC licenses and 2 x C13 regional power cords (where XX=NA/EU/UK/AU)
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### Software Licenses

ACC7-ENT	Avigilon Control Center 7 Enterprise camera channel license
ACC7-VAC	Avigilon Control Center 7 Video Analytics Channel license, includes Server-side Analytics for Classified Object Detection & Appearance Search
ACC7-FACE	ACC7 Face feature channel license
ACC7-FACE-10C	ACC7 Face feature 10 channel license
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

VMA-AIA2-WARR-EXTEND-2YR	2-Year Warranty Extension for AI Appliance 2 CG2 Model
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### Accessories

IDRAC9-ENT-UPG	iDRAC Enterprise upgrade
VMA-AIA2-2NDPS-XX	Spare power supply (XX=NA/UK/EU/AU) for AI Appliance 2 CG2 model

The **AI Appliance 2X CG3** model 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.

The **AI Appliance 2 CG2** model comes pre-installed with Avigilon Control Center 7 (ACC7). The **AI Appliance 2 CG2** model also includes 30 ACC7-VAC licenses to enable COD and AS Server-side analytics for 30 camera channels on Avigilon Control Center 7 Enterprise (30 ACC7-ENT licenses required). ACC7-ENT and additional ACC7-VAC licenses are sold separately. The AI Appliance 2 CG2 is also upgradable to Unity Video 8.

# 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.



**AVIGILON™**

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