

# H4 Edge Solution (ES) Outdoor Dome Camera Line

The H4 Edge Solution Camera line combines high-definition imaging, self-learning video analytics, network video recorder functionality, and embedded Avigilon Control Center™ video management software to create an all-in-one intelligent surveillance solution.











#### Onboard Solid-State Drive (SSD) storage

The H4 Edge Solution Camera records video directly to an onboard solid-state drive, eliminates the need for a separate network video recorder, and reduces installation and system costs.

#### Avigilon Control Center (ACC Software) Built-in

The H4 Edge Solution Camera line provides unique flexibility and versatility, with deployment options ranging from standalone installation, multicamera solutions, to seamless integration into a conventional network video surveillance system.

As an Internet of Things device, the solution acts as both a camera and out-of-the-box video management software platform, providing a uniquely easy-to-install and cost-effective surveillance solution.

#### **KEY FEATURES**

1-3 megapixel models

Factory installed and licensed with ACC Video Management software running on the camera

Up to 256 GB on-board Solid-State Drive (SSD)

Up to 30 day of video retention

Self-learning video analytics

Patented Advanced Video Pattern Detection and Teach by Example Technology

Patented High Definition Stream Management (HDSM)™ Technology maintains image quality while reducing bandwidth

Idle Scene Mode lowers the bandwidth and storage usage if there are no motion events detected in the scene

Wifi camera configuration support

Zoom and content adaptive integrated IR (Infrared) LEDs provide uniform illumination in the dark, even at 0 lux, up to a maximum of 30 m (98 ft) away

Avigilon LightCatcher™ technology provides exceptional image quality in low light environments

Triple Exposure Ultra Wide Dynamic Range

Factory pre-configured image preset modes for maximum image performance in a variety of lighting conditions

# Specifications

MAGE PRINCIPATION   1900   1			1.0 MP		2.0 MP			3.0 MP			
March   Marc	IMAGE	Image Sensor									
Margin Alay 1479   Ali	PERFORMANCE	Aspect Ratio	16:9					4:3			
Margin (Margin (Margin )					1920 x 1080						
No.   Section   Section											
Minimum Burnation   19   19   19   19   19   19   19   1		IR Illumination Option									
Magnetic   Magnetic		, , ,	0.04   /54 2)								
Part				8 lux (F1.3) in mor							
Payment Sales   Payment Sale			30 fps								
Symbol Control   Symb			67.10		12 fps			12 fps			
Macualization Scaling   Convent or Special Conven											
Recolation Scalarian   Recolation   R		Dynamic Range (WDR enabled)		ess);	120 dB triple	exposure (Full Feat	ure Mode). WDR is	disabled in High Framerate Mode			
Part		Resolution Scaling									
Pull Peature   Camera will prioritize feature capabilities over Image rate.   Pull Peature   Camera will prioritize feature capabilities over Image rate.   Pull Peature   Camera will prioritize feature capabilities over Image rate.   Pull Peature   Camera will prioritize feature capabilities over Image rate.   Pull Peature   Camera will prioritize feature capabilities over Image rate.   Pull Peature   Camera will prioritize feature capabilities over Image rate.   Pull Peature   Camera will prioritize feature capabilities over Image rate.   Pull Peature   Camera will prioritize feature capabilities over Image rate.   Pull Peature capabilities		Camera Operating Mode	N/A High Framerate = Camera will prioritize maximum image rate over other features.								
Stroke   Part   Part					disabled.						
1980   1980					Full Feature = Camera will prioritize feature capabilities over image rate.						
STONAGE		3D Noise Reduction Filter	YES								
STONAGE	ONBOARD	Solid-State Drive (SSD)	128 G		256 G			256 G			
Mary   Agrice   Agr				and an 20% matic				230 0			
Margic of View   20" - 91"   1254 MPEC 4 Part 100 MC), Motion 3PEC   12" - 98"   12" - 9		neterial nate	Op to 30 days (2 Mbps Stream bas	sed on 30% mond	on duty cycle)						
Marcia Commercia	LENS	Lens	3 - 9 mm F1.3, P-Iris, remote focus	and zoom							
Streaming   Mulsi stream   L954 and Mation   FEG		Angle of View	30° – 91°					32° – 98°			
MICHANN data list Screen Modes   MICHANN and list Screen Modes   MICHANN AND	IMAGE CONTROL	Image Compression Method	H.264 (MPEG-4 Part 10/AVC), Moti	ion JPEG							
Motion Petersian   New Indicessional Petersian   New Indicessional Control Common Studies Control   Automatic, Menius (No 1800) os		Streaming	Multi-stream H.264 and Motion JF	PEG							
Camerio Timpering Detection   Ves   Camerio		Bandwidth Management	HDSM and Idle Scene Mode								
		Motion Detection	Pixel and classified objects								
Ris Control											
Picker Control   Pick				sec)							
Price   Pric				Automatic, Manual							
Mail Beliance   Microary Composition   Micr											
Red   Red											
Privacy Zones   Privacy Zones   Up to 64 zones   Cartana Unit Comparison Method   Cartana Unit Comparison   Cartana Un											
Audio Compression Method   Audio Injunct/Output   Leave Injunct and output, AV mini-jack (3.5 mm)											
Audio Input/Output			•								
Micho Output											
NETWORK   Network   1008A5c.Tx											
Network   Cabing Type		External I/O Terminals	Alarm In, Alarm Out								
Cabling Type		USB Port	USB 2.0								
Cabing Type	NETWORK	Network	100BASE-TX								
ONVIF		Cabling Type	CAT5								
Counding   Downs and scene descriptions not available with third-party VMS    Security   Password protection, HTTPS encryption, digest authentication, WS authentic		Connector	RJ-45								
Security		ONVIF									
Protocol   Prot   Protocol   Prot   Protocol   Prot   Prot   Protocol   Prot   Prot		Security									
Streaming Protocols   Streaming Protocols											
PRIVATIVE   PRIVATE   PR		6:									
NECHANICAL   Dimensions (LXWXH)   Dimensions (LXW				,							
MECHANICAL   Dimensions (LxWxH)   dome camera only: with wall mount (H4-MT-WALL1): 275 mm x 172 mm x 124 mm; (6.8" x 6.8" x 6.8")   with wall mount (H4-MT-WALL1): 275 mm x 172 mm x		_					SUIDEACE MOU	NT OUTDOOR DOME CAMERA			
Weight   W	MECHANICAL	Dimensions (LyMyLI)		172 mm v 172	v 124 /C	0" v 6 0" v 4 0"\					
Weight   With NPT mount (H4-MT-NPTAI): 172 mm x 172 mm x 172.3 mm (6.8" x 6.8" x 6.8")   1.35 kg (2.97 lbs)   1.	MECHANICAL	Dimensions (LAWATI)	,			,	X IIIII COI X IIIIII COI	12111111, (0.4 × 0.4 × 4.0 )			
With wall mount (H4-MT-WALL1): 3.00 kg (6.62 lbs)   with NPT mount (H4-MT-NPTA): 1.80 kg (3.98 lbs)			` '		,						
With NPT mount (H4-MT-NPTA1): 1.80 kg (3.98 lbs)		Weight	,				1.35 kg (2.97 lbs)				
Dome Bubble   Polycarbonate, clear   Body   Aluminum   Housing   Pendant mount, vandal resistant - with wall mount (H4-MT-WALL1) / NPT mount   Surface mount, vandal resistant   Finish   Powder coat, RAL 9003   Pon, 9° – 95° tilt (30° – 95° with -IR option), ±180° azimuth   Power Consumption   Power Consumption   9W   Power Consumption   2-pin terminal block   RTC Backup Battery   3V manganese lithium   3V manganese lithium   Power Storage Temperature   40°C to +60°C (40°F to 140°F)   Humidity   0 -95% non-condensing   Certifications/Directives   UL   CUL   CE   ROHS   WEEE   RCM   KC   EAC   Folion-1-1   Fo											
Body   Aluminum   Housing   Pendant mount, vandal resistant - with wall mount (H4-MT-WALL1) / NPT mount   Surface mount, vandal resistant   Finish   Powder coat, RAL 9003		Dome Bubble		1.00 kg (3.30 iDS)							
Housing											
Finish   Powder coat, RAL 9003   Adjustment Range   360° pan, 9° – 95° tilt (30° – 95° with -IR option), ±180° azimuth				with wall mount (	H4-MT-WALL1	) / NPT mount	Surface mount, van	dal resistant			
Adjustment Range   360° pan, 9° – 95° tilt (30° – 95° with -IR option), ±180° azimuth		Finish									
Power Consumption   9 W				ith -IR option), ±18	30° azimuth						
Power Source   VDC: 12 V +/- 10%, 9 W min   VAC: 24 V +/- 10%, 13 VA min   PoE: IEEE802.3af Class 3 compliant	ELECTRICAL										
Power Connector   RTC Backup Battery   3V manganese lithium   3V manganese lithium   3V manganese lithium   40 °C to +60 °C (-40 °F to 140 °F)	ELECTRICAL				VAC: 24 V +/	- 10%, 13 VA min		PoE: IEEE802,3af Class 3 compliant			
RTC Backup Battery   3V manganese lithium   3V manganese lithium   40 °C to +60 °C (-40 °F to 140 °F)					., .c. Z-r v 1/	.5.0, 10 77 11111					
CERTIFICATIONS   Certifications/Directives   UL   CE   ROHS   CERTIFICATIONS   Safety   UL 60950-1   CSA 60950-1   EC/EN 60950-1   EC/EN 60950-1   EC/EN 60950-1   ELectromagnetic Emissions   FCC Part 15 Subpart B Class B   IC ICES-003 Class B   EN 55032 Class B   EN 61000-6-3   EN 61000-3-2   EN 61000-3-3   KN 32   EN 61000-3-3   KN 32   EN 61000-6-3   EN 61000-3-3   EN 61000-			·								
Storage Temperature	ENVIDONMENTAL		-								
Humidity   0 - 95% non-condensing   CERTIFICATIONS   Certifications/Directives   UL   cUL   CE   ROHS   WEEE   RCM   KC   EAC   Safety   UL 60950-1   CSA 60950-1   IEC/EN 609	ENVIRONMENTAL		·								
CERTIFICATIONS         Certifications/Directives         UL         cUL         CUL         CE         ROHS         WEEE         RCM         KC         EAC           Safety         UL 60950-1         CSA 60950-1         IEC/EN 60950-1         IEC 62471 (for -IR options only)           Environmental         UL/CSA/IEC 60950-22         IEC 60529 IP66 Rating         IK10 Impact Rating           Electromagnetic Emissions         FCC Part 15 Subpart B Class B         IC ICES-003 Class B         EN 55032 Class B         EN 61000-6-3         EN 61000-3-2         EN 61000-3-3         KN 32											
Safety         UL 60950-1         CSA 60950-1         IEC/EN 60950-1         IEC 62471 (for -IR options only)           Environmental         UL/CSA/IEC 60950-22         IEC 60529 IP66 Rating         IK10 Impact Rating           Electromagnetic Emissions         FCC Part 15 Subpart B Class B         IC ICES-003 Class B         EN 55032 Class B         EN 61000-6-3         EN 61000-3-2         EN 61000-3-3         KN 32	CEDTIFICATIONS			CF I	ROHS	WEEE	RCM	KC FAC			
Environmental         UL/CSA/IEC 60950-22         IEC 60529 IP66 Rating         IK10 Impact Rating           Electromagnetic Emissions         FCC Part 15 Subpart B Class B         IC ICES-003 Class B         EN 55032 Class B         EN 61000-6-3         EN 61000-3-2         EN 61000-3-3         KN 32	CERTIFICATIONS				(0) 13						
Electromagnetic Emissions FCC Part 15 Subpart B Class B IC ICES-003 Class B EN 55032 Class B EN 61000-6-3 EN 61000-3-2 EN 61000-3-3 KN 32		•			Rating		·	30 0,			
					-			EN 61000-3-2 EN 61000-3-3 KN 32			
			i								

SUPPORTED VIDEO ANALYTICS EVENTS

Objects in Area	The event is triggered when the selected object type moves into the region of interest.
Object Loitering	The event is triggered when the selected object type stays within the region of interest for an extended amount of time.
Objects Crossing Beam	The event is triggered when the specified number of objects have crossed the directional beam that is configured over the camera's field of view. The beam can be unidirectional or bidirectional.
Object Appears or Enters Area	The event is triggered by each object that enters the region of interest. This event can be used to count objects.
Object Not Present in Area	The event is triggered when no objects are present in the region of interest.
Objects Enter Area	The event is triggered when the specified number of objects have entered the region of interest.
Objects Leave Area	The event is triggered when the specified number of objects have left the region of interest.
Object Stops in Area	The event is triggered when an object in a region of interest stops moving for the specified threshold time.
Direction Violated	The event is triggered when an object moves in the prohibited direction of travel.
Tamper Detection	The event is triggered when the scene unexpectedly changes.

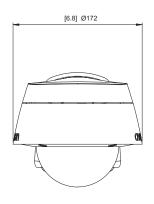
## SUPPORTED ACC FEATURES

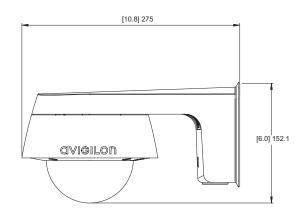
ramper Detection	The event is triggered when the scene unexpectedly changes.
System	<ul> <li>1 camera per server (connection to self)</li> <li>2 simultaneous client connections (override supported)</li> <li>Site supports up to 200 cameras and a total of 100 defined users. H4 ES Cameras can be part of a site with 15 other H4 ES Cameras, ACC ES HD Recorders, or ACC servers</li> </ul>
Recording Rate	12 Mbps
Stream Out Rate	24 Mbps
Client	<ul> <li>Saved Views</li> <li>Maps</li> <li>Intelligent Virtual Matrix</li> <li>Web pages</li> <li>Collaborative investigations</li> </ul>
Recording, Searching and Playback	<ul> <li>Hourly configurable recording schedule</li> <li>Intelligent motion search</li> <li>Live export</li> <li>Video archiving</li> <li>Thumbnail search</li> <li>Event search</li> <li>Alarm search</li> </ul>
Integrations	All 3rd party integrations via the ACC SDK Plus:
Additional Features	<ul> <li>Email event notification</li> <li>Digital input email trigger</li> <li>Manual digital output trigger</li> <li>Audio recording and talkdown</li> <li>Unlimited rule triggers</li> <li>Failover connections</li> <li>Alarm escalation</li> <li>"Redundant recording</li> </ul>

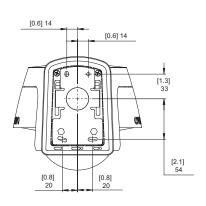
## **Outline Dimensions**

## Pendant Dome Camera

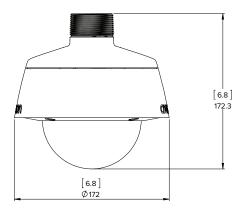
#### WITH WALL MOUNT (H4A-MT-WALL1)

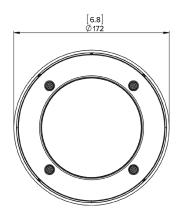






## WITH NPT MOUNT (H4A-MT-NPTA1)

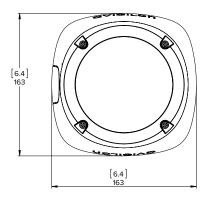


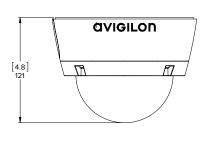


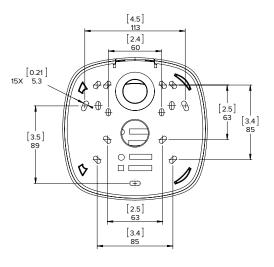
[X.X]	INCHES
Χ	MM

## Surface Mount Outdoor Dome Camera

(H4A-DO)







# Ordering Information

PENDANT DOME CAMERAS	MP	WDR	LIGHTCATCHER	ANALYTICS	STORAGE	LENS	IR		HDSM SMARTCODEC
1.0C-H4A-12G-DP1-IR	1.0	✓	✓	✓	128 G	3 - 9 mm	✓		✓
2.0C-H4A-25G-DP1-IR	2.0	✓	✓	✓	256 G	3 - 9 mm	✓		✓
3.0C-H4A-25G-DP1-IR	3.0	✓	✓	✓	256 G	3 - 9 mm	✓		✓
H4A-MT-WALL1	Indoor/Outdoor Pendant Wall Arm Mount								
H4A-MT-NPTA1	Indoor/Ou	tdoor Pend	lant NPT Mount						
H4A-DP-SMOK1	Dome Camera Cover with Smoked Bubble								
H4A-DP-CLER1	Dome Camera Cover with Clear Bubble								
H4-MT-POLE1	Aluminum pole mounting bracket for H4 HD Pendant Dome Cameras and H4 HD Bullet Cameras								
H4-MT-CRNR1	Aluminum corner mounting bracket for H4 HD Pendant Dome Cameras and H4 HD Bullet Cameras								
H4A-AC-GROM1	Camera Sealing Grommet, Pack of 10								
H4-AC-WIFI2-NA	USB Wifi Adapter								
H4-AC-WIFI2-EU	USB Wifi Adapter								
CM-AC-AVIO1	3.5 mm Ja	ck with 1.8	m Fly Wires						
CM-AC-GROM1	Pipe Grommet, Pack of 10								
SURFACE MOUNT OUTDOOR DOME CAMERAS	MP	WDR	LIGHTCATCHER	R ANALYTICS	STORAG	GE LEN	IS	IR	HDSM SMARTCODEC
1.0C-H4A-12G-DO1-IR	1.0	✓	✓	✓	128 G	3 - 9	mm	✓	✓
2.0C-H4A-25G-DO1-IR	2.0	✓	✓	✓	256 G	3 - 9	mm	✓	✓
3.0C-H4A-25G-DO1-IR	3.0	✓	✓	✓	256 G	3 - 9	mm	✓	✓
H4A-DO-SMOK1	Outdoor Dome Camera Cover with Smoked Bubble								
H4A-DO-CLER1	Outdoor Dome Camera Cover with Clear Bubble								
H4-AC-WIFI2-NA	USB Wifi Adapter								
H4-AC-WIFI2-EU	USB Wifi Adapter								
H4A-AC-GROM1	Camera Sealing Grommet, Pack of 10								
CM-AC-AVIO1	3.5 mm Ja	ck with 1.8	m Fly Wires						
CM-AC-GROM1	Pipe Grom	met, Pack	of 10						