

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	Image Sensor	1.0 MP 1/2.8" progressive scan CMOS	2.01			3.0 MP					
PERFORMANCE	Aspect Ratio	16:9				4:3					
PERFORMANCE	Active Pixels (H x V)	1280 x 720	1020	x 1080			5				
			1920	. 1000			2048 x 1536 5.12 mm x 3.84 mm; 0.202" x 0.151"				
	Imaging Area (H x V) IR Illumination Option	4.8 mm x 2.7mm; 0.189" x 0.106"	Y			3.12 mm x 3.8					
	(high power 850 nm LEDs)	30 m (98 ft) max. distance at 0 lux									
	Minimum Illumination	0.04 lux (F1.3) in color mode; 0.0	08 lux (F1.3) in monochro	nochrome mode							
	Image Rate High Framerate	30 fps	30 fps			30 fps					
	Full Feature		12 fps			12 fps					
	Dynamic Range	67 dB									
	Dynamic Range (WDR enabled)	120 dB triple exposure (20 fps or 100 dB dual exposure (30 fps)	less); 120 d	120 dB triple exposure (Full Feature Mode). WDR is disabled in High Framerate Mode							
	Resolution Scaling	Down to 768 x 432									
	Camera Operating Mode	N/A		High Framerate = Camera will prioritize maximum image rate over other features. WDR is disabled.							
		1/50	Full F	Full Feature = Camera will prioritize feature capabilities over image rate.							
	3D Noise Reduction Filter	YES									
NBOARD	Solid-State Drive (SSD)	128 G	256 0	6		256 G					
TORAGE	Retention Rate	Up to 30 days (2 Mbps stream ba	ased on 30% motion duty	cycle)							
ENS	Lens	3 - 9 mm F1.3, P-Iris, remote focus	s and zoom								
	Angle of View	30° – 91°				32° – 98°					
	-					32 - 98					
MAGE CONTROL	Image Compression Method Streaming	H.264 (MPEG-4 Part 10/AVC), Mo Multi-stream H.264 and Motion J		Lodec lechnology							
	Bandwidth Management	HDSM Divel and classified chiests									
	Motion Detection	Pixel and classified objects									
	Camera Tampering Detection	Yes	1 500)								
	Electronic Shutter Control Iris Control	Automatic, Manual (1/6 to 1/8000 sec)									
		Automatic, Manual									
	Day/Night Control Flicker Control	Automatic, Manual									
		50 Hz, 60 Hz									
	White Balance	Automatic, Manual									
	Backlight Compensation	Adjustable									
	Privacy Zones	Up to 64 zones									
	Audio Compression Method	G.711 PCM 8 kHz									
	Audio Input/Output	Line level input and output, A/V mini-jack (3.5 mm)									
	Video Output	(1.0 - 2.0 MP only) NTSC/PAL, A/V mini-jack (3.5 mm)									
	External I/O Terminals	Alarm In, Alarm Out									
	USB Port	USB 2.0									
IETWORK	Network	100BASE-TX									
	Cabling Type	CAT5									
	Connector	RJ-45									
	ONVIF	ONVIF compliant with version 1.02, 2.00, Profile S and 2.2.0 of the Analytics Service Specification (*bounding boxes and scene descriptions not available with third-party VMS)									
	Security	Password protection, HTTPS encryption, digest authentication, WS authentication, user access log, 802.1x port based authentication									
	Protocol	IPv6, IPv4, HTTP, HTTPS, SOAP,	DNS, NTP, RTSP, RTCP, R	TP, TCP,UDP, IGMP, ICMP,	DHCP, Zeroconf,	ARP					
	Streaming Protocols	RTP/UDP, RTP/UDP multicast, RT	P/RTSP/TCP, RTP/RTSP/H	HTTP/TCP, RTP/RTSP/HTT	PS/TCP, HTTP						
	Device Management Protocols	SNMP v2c, SNMP v3									
		PENDANT DOME CAMERA			SURFACE MO		OR DOME CA	MERA			
MECHANICAL	Dimensions (LxWxH)	dome camera only: with wall mount (H4-MT-WALL1): with NPT mount (H4-MT-NPTA1):	275 mm x 172 mm x 152.	m x 152.1 mm (10.8" x 6.8" x 6.0")			n x 121 mm; (6.4" x 6.4" x 4.8")				
	Weight		1.55 kg (3.42 lbs)	1.35 kg (2.97 lbs)							
	Dama Dubli	with NPT mount (H4-MT-NPTA1):	1.80 kg (3.98 lbs)								
	Dome Bubble	Polycarbonate, clear									
	Body	Aluminum			Conference	un de la contra de					
	Housing	Pendant mount, vandal resistant (H4-MT-NPTA1)	- with wait mount (H4-M I	-wallij/ NPT mount	Surface mount,	vanuai resistant					
	Finish	Powder coat, RAL 9003									
	Adjustment Range	360° pan, $9^{\circ} - 95^{\circ}$ tilt ($30^{\circ} - 95^{\circ}$ with -IR option), ±180° azimuth									
ECTRICAL	Power Consumption	9 W									
	Power Source	VDC: 12 V +/- 10%, 9 W min	VAC:	24 V +/- 10%, 13 VA min		PoE: IEEE80	2.3af Class 3 co	mpliant			
	Power Connector	2-pin terminal block									
	RTC Backup Battery	3V manganese lithium									
	Operating Temperature	-40 °C to +60 °C (-40 °F to 140 °F)									
	Storage Temperature	-10 °C to +70 °C (14 °F to 158 °F)									
	Humidity	0 - 95% non-condensing									
ERTIFICATIONS	Certifications/Directives	UL cUL	CE ROHS	WEEE	RCM	EAC	KC	BIS			
	Safety	UL 60950-1	CSA 60950-1		C 62471 (for -IR o	ptions only)					
	Environmental	UL/CSA/IEC 60950-22	IEC 60529 IP66 Rating	IK10 Impact Rating							
					E11 010 0 0 0 0	EN1 64000 0 0	ENI C1000 2.2	ELL EFOM			
	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	EN 55011			

SUPPORTED Objects in Area The event is triggered when the selected object type moves into the region of interest. RULE BASED VIDEO ANALYTICS 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. The event is triggered by each object that enters the region of interest. This event can be used to count objects. Object Appears or Enters Area 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

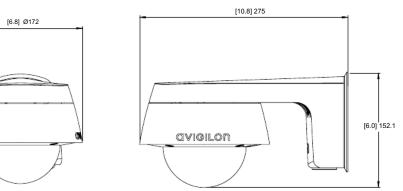
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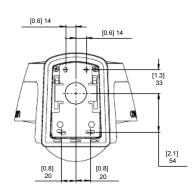
EVENTS

System	 1 camera per server (connection to self) Site supports up to 200 cameras and a total of 	 2 simultaneous client connections (override supported) 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	·····				
Recording Rate	12 Mbps					
Stream Out Rate	24 Mbps					
Client	Saved Views Maps Web pages	 Editable Site View Intelligent Virtual Matrix Collaborative investigations 				
Recording, Searching and Playback	Hourly configurable recording schedule Intelligent motion search Live export Video archiving	 Thumbnail search Event search Alarm search 				
Integrations	All 3rd party integrations via the ACC SDK Plus:	CommScope iPatch S2 AccessIt! DDS Amadeus 5 DSX				
Additional Features	 Email event notification Digital input email trigger Manual digital output trigger Audio recording and talkdown 	Unlimited rule triggers Failover connections Alarm escalation *Redundant recording *Pepending on level of site activity (site, camera, analytics, etc), redundant recording to a secondary server may exhibit a degradation in performance.				

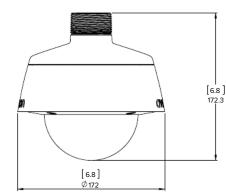
Outline Dimensions Pendant Dome Camera

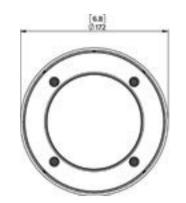
WITH WALL MOUNT (H4A-MT-WALL1)





WITH NPT MOUNT (H4A-MT-NPTA1)

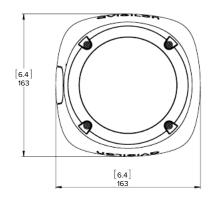


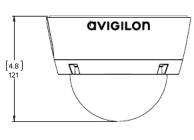


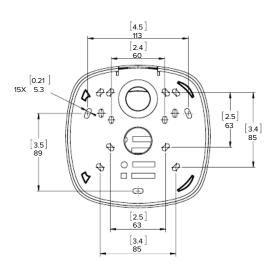
[X.X]	INCHES
Х	MM

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(-B)*	1.0	\checkmark	\checkmark	\checkmark	128 G	3 - 9 mm	\checkmark	\checkmark
2.0C-H4A-25G-DP1-IR(-B)*	2.0	\checkmark	\checkmark	\checkmark	256 G	3 - 9 mm	\checkmark	\checkmark
3.0C-H4A-25G-DP1-IR(-B)*	3.0	\checkmark	\checkmark	\checkmark	256 G	3 - 9 mm	\checkmark	\checkmark
* These models are physically identical. (-B)* depicts an updated hardware vers	ion.							
H4A-MT-WALL1	Indoor/Outdoor Pendant Wall Arm Mount							
H4A-MT-NPTA1	Indoor/Outdoor Pendant 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 Jack with 1.8 m Fly Wires							
CM-AC-GROM1	Pipe Grommet, Pack of 10							
SURFACE MOUNT OUTDOOR DOME CAMERAS	MP	WDR	LIGHTCATCHER	ANALYTIC	S STORAG	E LENS	IR	HDSM SMARTCODEC
1.0C-H4A-12G-DO1-IR(-B)*	1.0	\checkmark	\checkmark	\checkmark	128 G	3 - 9 mi	m √	\checkmark
2.0C-H4A-25G-DO1-IR(-B)*	2.0	\checkmark	\checkmark	\checkmark	256 G	3 - 9 m	m √	\checkmark
3.0C-H4A-25G-DO1-IR(-B)*	3.0	\checkmark	\checkmark	\checkmark	256 G	3 - 9 m	m √	\checkmark
* These models are physically identical. (-B)* depicts an updated hardware version.								

H4A-DO-SMOK1	Outdoor Dome Camera Cover with Smoked Bubble			
H4A-DO-CLER1	Dutdoor 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 Jack with 1.8 m Fly Wires			
CM-AC-GROM1	Pipe Grommet, Pack of 10			

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