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, multi-camera 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) $^{\rm m}$ 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

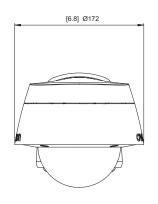
		1.0 MP		2.0 MP			3.0 MP			
IMAGE	Image Sensor	1/2.8" progressive scan CMOS								
PERFORMANCE	Aspect Ratio	16:9					4:3			
	Active Pixels (H x V)	1280 x 720		1920 x 1080			2048 x 1536			
	Imaging Area (H x V)	4.8 mm x 2.7mm; 0.189" x 0.106"		1320 X 1000			5.12 mm x 3.84 mm; 0.202" x 0.151"			
	IR Illumination Option	30 m (98 ft) max. distance at 0 lux	,				3.12 Hill X 3.04 Hill, 0.202 X 0.131			
	(high power 850 nm LEDs) Minimum Illumination	0.04 lux (F1.3) in color mode; 0.008 lux (F1.3) in monochrome mode								
			16 lux (F1.5) III IIIOII							
	Image Rate High Framerate	30 fps		30 fps			30 fps			
	Full Feature			12 fps			12 fps			
	Dynamic Range	67 dB								
	Dynamic Range (WDR enabled) Resolution Scaling	120 dB triple exposure (20 fps or 100 dB dual exposure (30 fps) Down to 768 x 432	less);	120 dB triple ex	xposure (Full Feat	ture Mode). WDR is	disabled in High Framerate Mode			
		N/A			: L.E					
	Camera Operating Mode	N/A		High Framerate = Camera will prioritize maximum image rate over other features. WDR is disabled.						
				= Camera will prioritize feature capabilities over image rate.						
				Tuil Teature	Carriera Will pri	ontize reature capi	abilities over image rate.			
ONBOARD	Solid-State Drive (SSD)	128 G		256 G			256 G			
STORAGE	Retention Rate	Up to 30 days (2 Mbps stream ba	sed on 30% motic	on duty cycle)						
		. , , ,		, , ,						
LENS	Lens	3 - 9 mm F1.3, P-Iris, remote focus	and zoom							
	Angle of View	30° – 91°					32° – 98°			
IMAGE CONTROL	Image Compression Method	H.264 (MPEG-4 Part 10/AVC), Mot								
	Streaming	Multi-stream H.264 and Motion JF	PEG							
	Bandwidth Management	HDSM and Idle Scene Mode								
	Motion Detection	Pixel and classified objects								
	Camera Tampering Detection	Yes								
	Electronic Shutter Control	Automatic, Manual (1/6 to 1/8000	sec)							
	Iris Control	Automatic, Manual								
	Day/Night Control	Automatic, Manual Automatic, Manual								
	Flicker Control	50 Hz, 60 Hz								
	White Balance	Automatic, Manual								
	Backlight Compensation									
	Privacy Zones	Adjustable The to 64 zeroes								
	Audio Compression Method	Up to 64 zones G.711 PCM 8 kHz								
	Audio Input/Output									
	Video Output	Line level input and output, A/V mini-jack (3.5 mm) (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								
	OSB I OIL	035 2.0								
NETWORK	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) Password protection, HTTPS encryption, digest authentication, WS authentication, user access log, 802.1x port based authentication, HTTP, HTTPS, SOAP, DNS, NTP, RTSP, RTCP, RTP, TCP, UDP, IGMP, ICMP, DHCP, Zeroconf, ARP								
	Security						1x port based authentication			
	Protocol									
	Streaming Protocols	RTP/UDP, RTP/UDP multicast, RTF	P/RTSP/TCP, RTP/F	RTSP/HTTP/TCF	P, RTP/RTSP/HTTF	PS/TCP, HTTP				
	Device Management Protocols	SNMP v2c, SNMP v3								
		PENDANT DOME CAMERA				SURFACE MOUI	NT OUTDOOR DOME CAMERA			
MECHANICAL	Dimensions (LxWxH)		172 mm x 172 mm	v 124 mm· (6 8"	' v 6 8" v 4 9")		121 mm; (6.4" x 6.4" x 4.8")			
WECHANICAL	Dimensions (EXTXII)	with wall mount (H4-MT-WALL1):			-	700 11111 7	12111111, (c. 1 × c. 1 × 1.6)			
		with NPT mount (H4-MT-NPTA1):								
	Weight	dome camera only:	1.55 kg (3.42 lbs)			1.35 kg (2.97 lbs)				
		with wall mount (H4-MT-WALL1):								
	Dome Bubble	with NPT mount (H4-MT-NPTA1):	1.80 kg (3.98 lbs)							
		Polycarbonate, clear								
	Body	Aluminum	tale II	I LA BATTIMATIC	NDT -	Conference	del mediatent			
	Housing	Pendant mount, vandal resistant - (H4-MT-NPTA1)	with wall mount (m4-m1-WALL1) /	INPT mount	Surface mount, van	uai resistant			
	Finish	Powder coat, RAL 9003								
	Adjustment Range	360° pan, 9° – 95° tilt (30° – 95° w	vith -IR option), ±18	30° azimuth						
FLECTRICA	Power Consumption	Q.W.								
ELECTRICAL	Power Consumption	9 W		VAC: 24 V · / 4	00/ 12 \/^:-		DaFi IFFF902 2af Class 2			
	Power Source Power Connector	VDC: 12 V +/- 10%, 9 W min 2-pin terminal block		VAC: 24 V +/- 1	O/0, IS VA IIIII		PoE: IEEE802.3af Class 3 compliant			
		·								
	RTC Backup Battery	3V manganese lithium								
ENVIRONMENTAL	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								
	-	-								
CERTIFICATIONS	Certifications/Directives				WEEE	RCM	KC EAC			
	Safety		CSA 60950-1		EC/EN 60950-1		-IR options only)			
	Environmental		IEC 60529 IP66 F	-	K10 Impact Rating					
	Electromagnetic Emissions		IC ICES-003 Class		EN 55022 Class E	B EN 61000-6-3				
	Electromagnetic Immunity	EN 55024		E	EN 61000-6-1		KN 35			

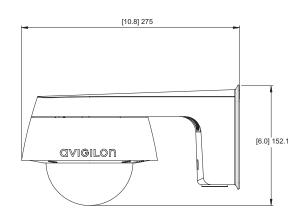
SUPPORTED VIDEO ANALYTICS EVENTS	Objects in Area	The event is triggered when the selected object type move	ves into the region of interest.							
	Object Loitering	The event is triggered when the selected object type stay	s within the region of interest for an extended amount of time.							
	Objects Crossing Beam	The event is triggered when the specified number of objective beam can be unidirectional or bidirectional.	cts have crossed the directional beam that is configured over the camera's field of view.							
	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 chain	nges.							
SUPPORTED ACC FEATURES	System	1 camera per server (connection to self) Site supports up to 200 cameras and a total of ACC ES HD Recorders, or ACC servers	 2 simultaneous client connections (override supported) 100 defined users. H4 ES Cameras can be part of a site with 15 other H4 ES Cameras, 							
	Recording Rate	12 Mbps								
	Stream Out Rate	24 Mbps								
	Client	Saved ViewsMapsWeb 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 searchEvent searchAlarm search							
	Integrations	All 3rd party integrations via the ACC SDK Plus:	 CommScope iPatch RS2 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 							

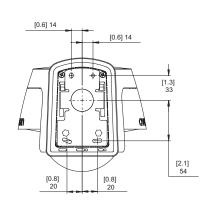
Outline Dimensions

Pendant Dome Camera

WITH WALL MOUNT (H4A-MT-WALL1)

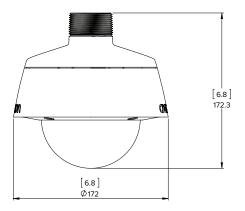


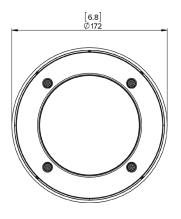




*Depending on level of site activity (site, camera, analytics, etc), redundant recording to a secondary server may exhibit a degradation in performance.

WITH NPT MOUNT (H4A-MT-NPTA1)

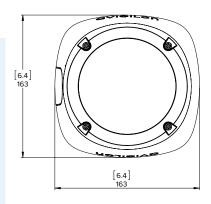


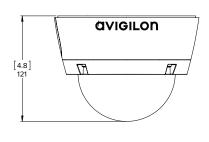


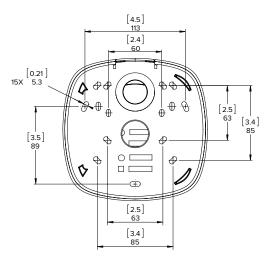
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Χ	MM

Surface Mount Outdoor Dome Camera

(H4A-DO)







Ordering Information

PENDANT DOME CAMERAS	MP	WDR	LIGHTCATCHER	ANALYTICS	STORAGE	LENS	IR
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/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	ANALYTICS	STORAGE	LENS	IR
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 Jack with 1.8 m Fly Wires
CM-AC-GROM1	Pipe Grommet, Pack of 10