

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

	Income Connection	1.0 MP		2.0 MP			3.0 MP				
IMAGE PERFORMANCE	Image Sensor	1/2.8" progressive scan CMOS					4.3				
PERFORMANCE	Aspect Ratio	16:9		1020 - 10	90		4:3				
	Active Pixels (H x V)	1280 x 720		1920 x 10	80	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" 30 m (98 ft) max_distance at 0 lu	×				5.12 mm x 5.6	4 min, 0.202 x 0.			
	(high power 850 nm LEDs)										
	Minimum Illumination	0.04 lux (F1.3) in color mode; 0.008 lux (F1.3) in monochrome 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	less);	120 dB tri	ple exposure (Full Fea	ture Mode). WDR	t is disabled in F	ligh Framerate M	Mode		
	Devel dive Couling	100 dB dual exposure (30 fps) Down to 768 x 432									
	Resolution Scaling	N/A									
	Camera Operating Mode	N/A High Framerate = Camera will prioritize maximum image rate over ot disabled.									
		Full Feature = Camera will prioritize feature capabilities over image rate.									
	3D Noise Reduction Filter	YES									
	3D Noise Reduction Filter										
ONBOARD	Solid-State Drive (SSD)	128 G		256 G			256 G				
STORAGE	Retention Rate	Up to 30 days (2 Mbps stream ba	ased on 30% mot	tion duty cyc	:le)						
	etwo kas hits show has not the set										
LENS	Lens	3 - 9 mm F1.3, P-Iris, remote focus	s and zoom								
	Angle of View	30° – 91°					32° - 98°				
IMAGE CONTROL	Image Compression Method	H.264 (MPEG-4 Part 10/AVC), Mo	tion JPEG, HDSM	A SmartCod	ec Technology						
	Streaming	Multi-stream H.264 and Motion J	IPEG								
	Bandwidth Management	HDSM									
	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									
	Flicker Control	50 Hz, 60 Hz									
	White Balance	Automatic, Manual									
	Backlight Compensation	Adjustable									
	Privacy Zones	Up to 64 zones	0p to 64 zones G.711 PCM 8 KHz								
	Audio Compression Method										
	Audio Input/Output	Line level input and output, AV									
	Video Output	(1.0 - 2.0 MP only) NTSC/PAL, A/V mini-jack (3.5 mm) Alarm In, Alarm Out									
	External I/O Terminals										
	USB Port	USB 2.0									
NETWORK	Network	100BASE-TX									
	Cabling Type	CAT5									
	Connector	RJ-45			(6					
	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, RTP, TCP, UDP, IGMP, ICMP, DHCP, Zeroconf, ARP									
	Streaming Protocols	RTP/UDP, RTP/UDP multicast, RT	P/RTSP/TCP, RTI	P/RTSP/HT1	P/TCP, RTP/RTSP/HTT	PS/TCP, HTTP					
	Device Management Protocols	SNMP v2c, SNMP v3									
		PENDANT DOME CAMERA				SUPEACE MO		OR DOME CA	MERA		
MECHANICAL	Dimensions (LxWxH)	dome camera only:		m v 124 mm	; (6.8" x 6.8" x 4.9")	163 mm x 163 m					
MECHANICAL	Dimensions (EXWXII)	with wall mount (H4-MT-WALL1):				100 1111 x 100 11					
		with NPT mount (H4-MT-NPTA); 172 mm x 172 mm x 172.3 mm (6.8" x 6.8" x 6.8")									
	Weight	dome camera only: 1.55 kg (3.42 lbs) 1.35 kg (2.97 lbs)									
		with wall mount (H4-MT-WALL1): 3.00 kg (6.62 lbs)									
	Dome Bubble	with NPT mount (H4-MT-NPTA1):	1.80 kg (3.98 lbs	s)							
		Polycarbonate, clear Aluminum									
	Body Housing		with wall move	+ /14 MT.M	NI 11 / NPT mount	Surface mount	vandal resistant				
	Housing	Pendant mount, vandal resistant - with wall mount (H4-MT-WALL1) / NPT mount Surface mount, vandal resistant (H4-MT-NPTA1)									
	Finish	Powder coat, RAL 9003									
	Adjustment Range	360° pan, 9° – 95° tilt (30° – 95° with -IR option), ±180° azimuth									
ELECTRICAL	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									
ENVIRONMENTAL	Operating Temperature	-40 °C to +60 °C (-40 °F to 140 °F	9								
	Storage Temperature	-10 °C to +70 °C (14 °F to 158 °F)									
		0 - 95% non-condensing									
	Humidity					DOM		110			
	Humidity Certifications/Directives	UL CUL	CE	ROHS	WEEE	RCM	EAC	KC	BIS		
CERTIFICATIONS		UL cUL UL 60950-1	CE CSA 60950-1	ROHS	WEEE IEC/EN 60950-1	IEC 62471 (for -		KC	BIS		
	Certifications/Directives							ĸc	BIS		
	Certifications/Directives Safety	UL 60950-1	CSA 60950-1	6 Rating	IEC/EN 60950-1	IEC 62471 (for -	IR options only)	KC EN 61000-3-3			

SUPPORTED RULE BASED 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.								
	** Rule based and UMD Analytics cannot operate at the same time.									
SUPPORTED VIDEO ANALYTICS EVENTS	(TICS Unusual Motion Detection (UMD) Detects and tags recorded video based on unusual speed, direction, and location of motion.									
SUPPORTED ACC FEATURES	System	1 camera per server (connection to self) 2 simultaneous client connections (override supported) 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								
	Recording Rate	12 Mbps								
	Stream Out Rate	24 Mbps								
	Client	Saved Views Maps Meb pages Collaborative Investigations								
	Recording, Searching and Playback	Hourly configurable recording schedule Intelligent motion search Live export Video archiving								
	Integrations	All 3rd party integrations via the ACC SDK Plus: CommScope iPatch DDS Amadeus 5 • RS2 AccessIt! • DSX								
	Additional Features	Email event notification Digital input email trigger Manual digital output trigger Audio recording and talkdown Manual digital output trigger Audio recording and talkdown								
		*Depending on level of site activity (site, camera, analytics, etc), redundant recording to a secondary server may exhib degradation in performance.								

Outline Dimensions Pendant Dome Camera

WITH WALL MOUNT (H4A-MT-WALL1)



[6.8] 172.3



WITH NPT MOUNT (H4A-MT-NPTA1)





INCHES					
ММ					

SUPPORT asksales@avigilon.com | avigilon.com

Surface Mount Outdoor Dome Camera

(H4A-DO)

CM-AC-AVIO1

CM-AC-GROM1







Ordering Information

PENDANT DOME CAMERAS	MP	WDR	LIGHTCATCHER	ANALYTICS	STORAGE	LENS	IR		HDSM SMARTCODEC	
1.0C-H4A-12G-DP1-IR(-B)*	1.0	~	1	~	128 G	3 - 9 mm	1		1	
2.0C-H4A-25G-DP1-IR(-B)*	2.0	1	~	~	256 G	3 - 9 mm	1		J	
3.0C-H4A-25G-DP1-IR(-B)"	3.0	~	~	~	256 G	3 - 9 mm	1		v	
* These models are physically identical. (-B)* depicts an updated hardware ver	lon.									
H4A-MT-WALL1	L1 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	LIGHTCATCHE	R ANALYTIC	CS STORA	GE LE	NS	IR	HDSM SMARTCODEC	
1.0C-H4A-12G-DO1-IR(-B)*	1.0	1	1	1	128 G	3-9	mm	1	1	
2.0C-H4A-25G-DO1-IR(-B)*	2.0	1	~	1	256 G	3-9	mm	1	~	
3.0C-H4A-25G-DO1-IR(-B)*	3.0	1	1	7	256 G	3-9	mm	1	1	
* These models are physically identical. (-B)* depicts an updated hardware ver	iion.									
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	-AC-WIFI2-EU USB Wifi Adapter									
H4A-AC-GROM1	Camera Sealing Grommet, Pack of 10									

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3.5 mm Jack with 1.8 m Fly Wires

Pipe Grommet, Pack of 10