

H4 Edge Solution (ES) 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.

Avigilon HDSM SmartCodec technology™ H4 platform optimizes the video stream in real time using automatic ROI encoding to save bandwidth and storage requirements while maintaining image quality.

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 days 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

Triple Exposure Ultra Wide Dynamic Range

Avigilon HDSM SmartCodec technology for reduce bandwidth and storage requirements

Specifications

Specin		,,,,	1.0 MP		2.0 MP			3.0 MP				
IMAGE	Image Sensor	·			Z.U IVIP			3.0 IVIP				
PERFORMANCE	Aspect Ratio		1/2.8" progressive scan CMOS					4.2				
	Active Pixels (H x V)	16:9 1280 x 720		1920 x 10	80		4:3 2048 x 1536				
	Imaging Area		4.8 mm x 2.7mm; 0.189" x 0.106	"	1320 X 10				mm ; 0.202" x 0.15	51"		
	Minimum Illum	•	0.08 lux (F1.6) in color mode; 0.0		nochrome r	node		5.12 IIIII X 3.04	, 0.202 X U.I	٠.		
		High Framerate	30 fps	iax (i i.o) iii iii0i	30 fps			30 fps				
		Full Feature	30 lp3		12 fps			12 fps				
	Dynamic Rang	ge	67 dB		r -							
			120 dB triple exposure (20 fps o 100 dB dual exposure (30 fps)	r less);	120 dB tri	ple exposure (Full Fe	ature Mode). WDF	R is disabled in Hig	h Framerate Mode	9		
	Resolution Sc	aling	Down to 768 x 432									
	Camera Opera	ating Mode	N/A		High Fra disabled	merate = Camera w	ill prioritize maxir	num image rate	over other feature	es. WDR is		
					Full Feat	ure = Camera will p	rioritize feature c	apabilities over i	mage rate.			
	3D Noise Red	cution Filter	Yes		Yes			Yes				
	Calid Ctata Da	in to (SSD)										
ONBOARD STORAGE	Solid-State Dr		128 G		256 G			256 G				
	Retention Rat	e	Up to 30 days (2 Mbps stream b	pased on 30% moti	on duty cyc	cle)						
LENC	Lens		F10.D.:									
LENS		4.7 - 04.0 min 1 1.0 1 -ins, remote locus and 20			1			0.50				
	Angle of View		3.3° – 55°					3.5° – 59°				
IMAGE CONTROL	Video Compre	ession	H 264 (MPEC 4 Pc + 40/4) (2)	Motion IDEC LID	CM Cz ·	Codos Tashiralas						
INIAGE CONTROL	Streaming		H.264 (MPEG-4 Part 10/AVC),		SIVI Smart	Codec rechnology						
		nnaaor	Multi-stream H.264 and Motio	on JPEG								
	Bandwidth Ma	-	HDSM									
	Motion Detec		Selectable sensitivity and threshold									
	Electronic Shu	utter Control	Automatic, Manual (1/6 to 1/8000 sec)									
	Iris Control		Automatic, Manual									
	Day/Night Co	ntrol	Automatic, Manual									
	Flicker Contro	ol	50 Hz, 60 Hz									
	White Balance	9	Automatic, Manual									
	Backlight Con	npensation	Adjustable									
	Privacy Zones											
		ession Method	Up to 64 zones									
	Audio Input/O		G.711 PCM 8 kHz									
			Line level input/output, A/V mini-jack (3.5 mm) (1.0 - 2.0 MP only) NTSC/PAL, A/V mini-jack (3.5 mm)									
	Video Output		(1.0 - 2.0 MP only) NTSC/PAL,	A/V mini-jack (3.5	5 mm)							
	External I/O Te	erminals	Alarm In, Alarm Out									
	USB Port		USB 2.0 Micro									
NETWORK	Network 100BASE-TX											
NETWORK												
	Cabling Type		CAT5									
	Connector		RJ-45									
	ONVIF		ONVIF compliant with version 1. (*bounding boxes and scene de	02, 2.00, Profile S a	and 2.2.0 o	f the Analytics Service nird-party VMS)	e Specification					
	Security		Password protection, HTTPS en					02.1x port based a	uthentication			
	Protocol		IPv6, IPv4, HTTP, HTTPS, SOAP, DNS, NTP, RTSP, RTCP, RTP, TCP, UDP, IGMP, ICMP, DHCP, Zeroconf, ARP									
	Streaming Pro	tocols	RTP/UDP, RTP/UDP multicast, RTP/RTSP/TCP, RTP/RTSP/HTTP/TCP, RTP/RTSP/HTTP/TCP, HTTP									
			SNMP v2c, SNMP v3									
	Jenice Manag	,	SINIVIE VZC, SINIVIE VS									
MECHANICAL	Dimensions (I	LxWxH)	168 mm x 76 mm x 67 mm; 6.6"	x 3.0" x 2.6"								
	Weight		0.62 kg (1.4 lbs)									
	Camera Mour	nt	1/4"-20 UNC (top and bottom)									
			17 -20 GIVE (top and bottom)									
ELECTRICAL	Power Consu	mption	8 W									
	Power Source		VDC: 12 V +/- 10%, 8 W min		VAC: 24 \	/ +/- 10%, 12 VA min		PoE: JEEE802	3af Class 3 compli	ant		
	Power Conne		2-pin terminal block									
	RTC Backup E											
	I I admap t	,	3V manganese lithium									
ENVIRONMENTAL	Operating Ter	mperature	-10 °C to +60 °C (14 °F to 140 °F)									
	Storage Temp		-10 °C to +70 °C (14 °F to 158 °F)									
	Humidity		0 - 95% non-condensing									
			_ 50% non condensing									
			UL cUL	CE	ROHS	WEEE	RCM	EAC	KC	BIS		
CERTIFICATIONS	Certifications											
CERTIFICATIONS	Certifications Safety		UL 60950-1			CSA 60950-1		IEC/EN 60950-1				
CERTIFICATIONS		tic Emissions		IC ICES-003 Class	ss B		EN 61000-6-3		EN 61000-3-3			
CERTIFICATIONS	Safety		UL 60950-1 FCC Part 15 Subpart B Class B EN 55024	IC ICES-003 Class	ss B	CSA 60950-1 EN 55032 Class B EN 61000-6-1	EN 61000-6-3	IEC/EN 60950-1 EN 61000-3-2	EN 61000-3-3	EN55011		

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

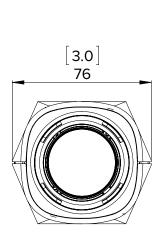
SUPPORTED VIDEO ANALYTICS EVENTS

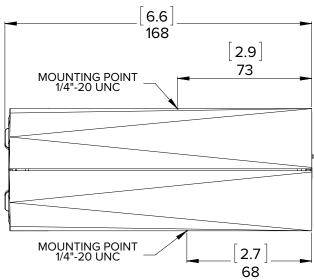
(UMD)

SUPPORTED ACC FEATURES

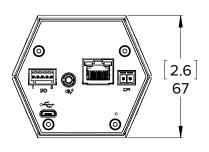
System	 1 camera per server (connection to self) 2 simultaneous client connections (override supported) Site supports up to 200 cameras and a total of 100 defined users. H4 ES Cameras can be part of a site with 15 other H4 ES Cameras ACC ES HD Recorders, or ACC servers 	
Recording Rate	12 Mbps	
Stream Out Rate	24 Mbps	
Client	 Saved Views Maps 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 DDS Amadeus 5 RS2 AccessIt! DSX	
Additional Features	 Email event notification Digital input email trigger Manual digital output trigger Audio recording and talkdown Failover connections Alarm escalation *Redundant recording *Peedundant recording *Depending on level of site activity (site, camera, analytics, etc), redundant recording to a secondary server may exhibit degradation in performance. 	.a

Outline Dimensions





[X.X]	INCHES
X	MM



Ordering Information

	MP	WDR	LightCatcher Technology	Analytics	Storage	Lens	Day/Night	HDSM SmartCodec
1.0C-H4A-12G-B1(-B)*	1.0	✓	✓	✓	128 G	4.7 - 84.6 mm	✓	✓
2.0C-H4A-25G-B1(-B)*	2.0	✓	✓	✓	256 G	4.7 - 84.6 mm	✓	✓
3.0C-H4A-25G-B1(-B)*	3.0	✓	✓	✓	256 G	4.7 - 84.6 mm	✓	✓

These models are physically identical .(-B)* depicts an updated hardware version.

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 Wire