

CALIBITIES OF THE SECURITY SOLUTIONS.

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

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

Triple Exposure Ultra Wide Dynamic Range

Avigilon HDSM SmartCodec technology for reduce bandwidth and storage requirements

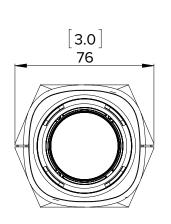
Specifications

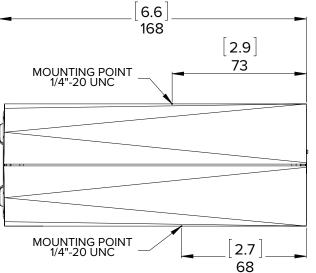
		1.0 MP		2.0 MP		3	3.0 MP		
	Image Sensor	1/2.8" progressive scan CMOS							
	Aspect Ratio	16:9				4	:3		
	Active Pixels (H x V)	1280 x 720		1920 x 1080		2	048 x 1536		
	Imaging Area (H x V)	4.8 mm x 2.7mm; 0.189" x 0.106"				5	.12 mm x 3.84 mm ;	0.202" x 0.151"	
	Minimum Illumination	0.08 lux (F1.6) in color mode; 0.016 lux (F1.6) in monochrome mode							
	Image Rate High Framerate	30 fps		30 fps			0 fps		
	Full Feature Dynamic Range	67 dB		12 fps		12	2 fps		
		67 dB							
	Resolution Scaling	120 dB triple exposure (20 fps or less); 120 dB triple exposure (Full Feature Mode). WDR is disabled in High Framerate Mode 100 dB dual exposure (30 fps) Down to 768 x 432							
	Camera Operating Mode	N/A		High Framera disabled.	rate = Camera will prioritize maximum image rate over other features. WDR is				
				Full Feature = Camera will prioritize feature capabilities over image rate.					
	3D Noise Redcution Filter	Yes		Yes		Y	′es		
ONBOARD STORAGE	Solid-State Drive (SSD) Retention Rate	128 G 256 G 256 G Up to 30 days (2 Mbps stream based on 30% motion duty cycle) 256 G							
	Lens								
LENS	Angle of View	4.7 - 84.6 mm F1.6 P-Iris, remote 3.3° – 55°	focus and zoom	1		З	8.5° – 59°		
IMAGE CONTROL	Image Compression Method		Action IDEC						
MAGE CONTROL	Streaming	H.264 (MPEG-4 Part 10/AVC), Motion JPEG							
		Multi-stream H.264 and Motion JPEG							
	Bandwidth Management	HDSM and Idle Scene Mode							
	Motion Detection	Selectable sensitivity and threshold							
	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							
	Audio Compression Method	G.711 PCM 8 kHz							
	Audio Input/Output	Line level input/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 Micro							
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)							
	Security	Password protection, HTTPS encryption, digest authentication, WS authentication, user access log, 802.1x port based authentication							
	Protocol	IPv4, HTTP, HTTPS, SOAP, DNS, NTP, RTSP, RTCP, RTP, TCP, UDP, IGMP, ICMP, DHCP, Zeroconf, ARP							
	Streaming Protocols	RTP/UDP, RTP/UDP multicast, RTP/RTSP/TCP, RTP/RTSP/HTTP/TCP, RTP/RTSP/HTTPS/TCP, HTTP							
	Device Management Protocols SNMP v2c, SNMP v3								
MECHANICAL	Dimensions (LxWxH)	168 mm x 76 mm x 67 mm; 6.6" >	< 3.0" × 2.6"						
	Weight	0.62 kg (1.4 lbs)							
	Camera Mount	1/4"-20 UNC (top and bottom)							
ELECTRICAL	Power Consumption	8 W							
	Power Source	VDC: 12 V +/- 10%, 8 W min		VAC: 24 V +/- 1	10%, 12 VA min	F	PoE: IEEE802.3af Cla	iss 3 compliant	
	Power Connector	2-pin terminal block							
	RTC Backup Battery	3V manganese lithium							
	Operating Temperature	-10 °C to +60 °C (14 °F to 140 °F)							
ENVIRONMENTAL									
ENVIRONMENTAL	Storage Temperature	-10 °C to +70 °C (14 °F to 158 °F)							
ENVIRONMENTAL		-10 °C to +70 °C (14 °F to 158 °F) 0 - 95% non-condensing							
	Storage Temperature Humidity	0 - 95% non-condensing		DOLIC	WEEE	DOM	KC	540	
CERTIFICATIONS	Storage Temperature Humidity Certifications	0 - 95% non-condensing UL cUL	CE	ROHS	WEEE	RCM	KC	EAC	
CERTIFICATIONS	Storage Temperature Humidity Certifications Safety	0 - 95% non-condensing UL cUL UL 60950-1			CSA 60950-1		IEC/EN 60950-1		
	Storage Temperature Humidity Certifications	0 - 95% non-condensing UL cUL	CE IC ICES-003 Clas			RCM EN 61000-6-3		EAC EN 61000-3-3 KN 32	

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	System	1 camera per server (connection to self) 2 simultaneous client connections (override supported)					
ACC FEATURES		 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					

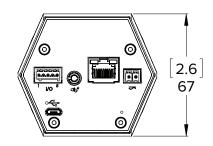
	ACC ES HD Recorders, or ACC servers		
Recording Rate	12 Mbps		
Stream Out Rate	24 Mbps		
Client	 Saved Views Maps Web pages 	 Editable Site View Intelligent Virtual Matrix Collaborative investigations 	
Recording, Searching and Playback	Hourly configurable recording schedule Intelligent motion search Live export Video archiving	Thumbnail searchEvent searchAlarm search	
Integrations	All 3rd party integrations via the ACC SDK Plus:	CommScope iPatchRS2 AccessIt!	DDS Amadeus 5DSX
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









Ordering Information

	MP	WDR	LightCatcher Technology	Analytics	Storage	Lens	Day/Night	HDSM SmartCodec
1.0C-H4A-12G-B1	1.0	\checkmark	\checkmark	\checkmark	128 G	4.7 - 84.6 mm	\checkmark	\checkmark
2.0C-H4A-25G-B1	2.0	\checkmark	\checkmark	\checkmark	256 G	4.7 - 84.6 mm	\checkmark	\checkmark
3.0C-H4A-25G-B1	3.0	\checkmark	\checkmark	\checkmark	256 G	4.7 - 84.6 mm	\checkmark	\checkmark
H4-AC-WIFI2-NA	USB Wifi Adapter							
H4-AC-WIFI2-EU	USB Wifi Adapter							
CM-AC-AVIO1	3.5 mm Jack w	ith 1.8 m Fly Wi	re					