H4 Edge Solution (ES) Bullet 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 costeffective 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

Integrated IR (Infrared) LEDs provide uniform illumination in the dark, even at 0 lux, up to maximum of 70 m (230 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

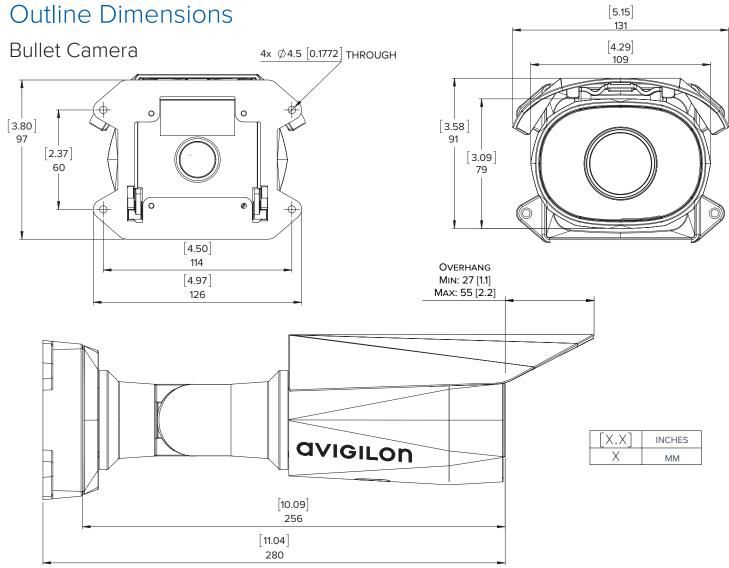
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Specifications

Speem	oau	0110	1.0 MP		2.0 MP		3.0 MP		
IMAGE	Image Sens	sor	1/2.8" progressive scan CMOS						
PERFORMANCE	Aspect Ratio		16:9				4:3		
	Active Pixel	s (H x V)	1280 x 720		1920 x 1080		2048 x 153	6	
	Imaging Area (H x V)		4.8 mm x 2.7mm; 0.189" x 0.106"				5.12 mm x 3	3.84 mm; 0.202" x	0.151"
	IR	3 - 9 mm lens:	50 m (164 ft) max. distance at 0 lux; 30 m (98 ft) at -25 °C (-13 °F) or lower						
	Illumination 9 - 22 mm lens: (high power 850 nm		70 m (230 ft) max. distance at 0 lux; 50 m (164 ft) at -25 °C (-13 °F) or lower						
	LEDs) Minimum	3 - 9 mm lens:	0.04 lux (F1.3) in color mode; 0 lux (F1.3) in monochrome mode with IR						
	Illumination 9 - 22 mm lens:		0.08 lux (F1.6) in color mode; 0 lux (F1.6)						
	Image Rate High Framerate		30 fps		30 fps		30 fps		
	Full Feature				2 fps		12 fps		
	Dynamic Range		67 dB						
	Dynamic Range (WDR enabled) Resolution Scaling Camera Operating Mode		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) 500 nb 768 x 432						
			N/A		High Framerate = Camera will prioritize maximum image rate over other features. WDR is disabled.				
					Full Feature = Camera	will prioritize feature of	apabilities ov	er image rate.	
ONBOARD	Solid-State Drive (SSD)		128 G	:	256 G		256 G		
STORAGE	Retention R	Rate	Up to 30 days (2 Mbps stream based on	n 30% motior	n duty cycle)				
LENS	Lens	3 - 9 mm lens:	F1.3, P-Iris, remote focus and zoom						
-		9 - 22 mm lens:	F1.6, P-Iris, remote focus and zoom						
	Angle of	3 - 9 mm lens:	30° – 91°				32° – 98°		
	View	9 - 22 mm lens:	14° – 29°				15° – 31°		
IMAGE CONTROL	Image Com	pression Method	H.264 (MPEG-4 Part 10/AVC), Motion JPI	ÈG					
	Streaming		Multi-stream H.264 and Motion JPEG						
	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 (Automatic, Manual						
	Flicker Control		50 Hz, 60 Hz Automatic, Manual						
	White Balance 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						
	External I/O Terminals		Alarm In, Alarm Out						
	USB Port		USB 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)						
	Security		Password protection, HTTPS encryption, digest authentication, WS authentication, user access log, 802.1x port based authentication						
	Protocol Streaming Protocols		IPv4, HTTP, HTTPS, SOAP, DNS, NTP, RTSP, RTCP, RTP, TCP,UDP, IGMP, ICMP, DHCP, Zeroconf, ARP RTP/UDP, RTP/UDP multicast, RTP/RTSP/RTCP, RTP/RTSP/HTTP/TCP, RTP/RTSP/HTTPS/TCP, HTTP						
	Device Management Protocols		SNMP v2c, SNMP v3						
MECHANICAL	Dimensions	s (LxWxH)	126 mm x 280 mm x 91 mm; 4.97" x 11.04" x 3.58" (including mounting bracket)						
		Camera:	1.71 kg (3.77 lbs)						
	1	Mounting Bracket:	0.21 kg (0. 46 lbs)						
	Body		Aluminum						
	Housing		Surface mount, tamper resistant						
	Finish		Powder coat, RAL 9003						
	Adjustment Range		±175° pan, ±90° tilt, ±175° azimuth						
ELECTRICAL	Power Consumption		13 W VDC: 12 V ± 10%, 13 W min VAC: 24 V ± 10%, 19 VA min PoE: IEEE802.3af Class 3 compliant						
	Power Source RTC Backup Battery		VDC: 12 V ± 10%, 13 W min		VAC: 24 V ± 10%, 19 VA	11111	POE: IEEE8	02.3at Class 3 com	ipilant
OFFICIAL	RTC Backup Battery		3V manganese lithium	°E	POUS	WEEE	M		
CERTIFICATIONS	Certifications/Directives			CE CSA 60950-1	ROHS	WEEE RC IEC/EN 60950-1 IEC	M : 62471		
	Safety Environmental			UL/CSA/IEC 6		IEC 60529 IP66 Rating			
	Electromagnetic Emissions		1 3	C ICES-003 (EN 55022 Class B EN		EN 61000-3-2	EN 61000-3-3
	Electromagnetic Immunity		EN 55024			EN 61000-6-1			
ENVIRONWENTAL	Operating Temperature IR Illuminator Behavior		-40 °C to +55 °C (-40 °F to 131 °F) IP illuminator will not turn on if temporature is 45 °C (42 °C) or higher						
	Storage Temperature		IR illuminator will not turn on if temperature is 45 °C (113 °F) or higher -10 °C to +70 °C (14 °F to 158 °F)						
	Humidity		0 - 95% non-condensing						
			g						

SUPPORTED VIDEO ANALYTICS EVENTS	Objects in Area	The event is triggered when the selected object type move	es 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 object The beam can be unidirectional or bidirectional.	ts 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 regio	n 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	Pave 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 chan	ges.				
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 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! DS 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 "Depending on level of site activity (site, camera, analytics, etc), redundant recording to a secondary server may exhibit a dependitude to be determined.				
			degradation in performance.				

Outline Dimensions



Ordering Information

	MP	WDR	LIGHTCATCHER	ANALYTICS	STORAGE	LENS	IR	
1.0C-H4A-12G-BO1-IR	1.0	\checkmark	\checkmark	\checkmark	128 G	3 - 9 mm	\checkmark	
1.0C-H4A-12G-BO2-IR	1.0	\checkmark	\checkmark	\checkmark	128 G	9 - 22 mm	\checkmark	
2.0C-H4A-25G-BO1-IR	2.0	\checkmark	\checkmark	\checkmark	256 G	3 - 9 mm	\checkmark	
2.0C-H4A-25G-BO2-IR	2.0	\checkmark	\checkmark	\checkmark	256 G	9 - 22 mm	\checkmark	
3.0C-H4A-25G-BO1-IR	3.0	\checkmark	\checkmark	\checkmark	256 G	3 - 9 mm	\checkmark	
3.0C-H4A-25G-BO2-IR	3.0	\checkmark	\checkmark	\checkmark	256 G	9 - 22 mm	\checkmark	
H4-BO-JBOX1	Junction box for H4A-BO-IR H4 HD Bullet Cameras							
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							
H4-AC-WIFI1-NA	USB Wifi Adapter							