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.

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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

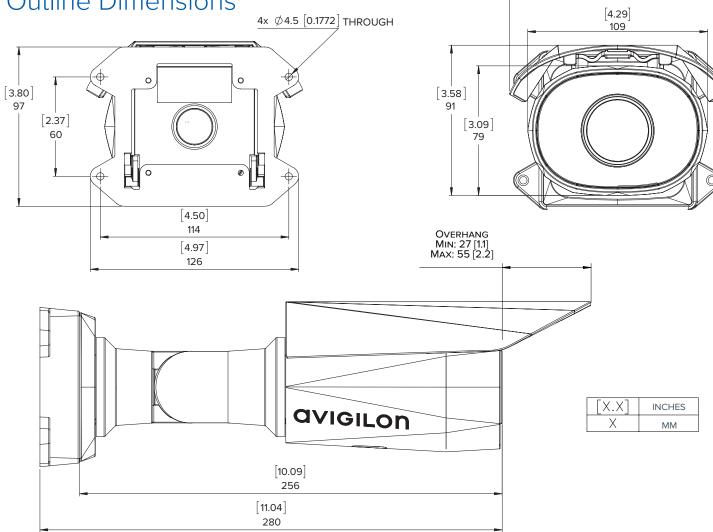
Factory pre-configured image preset modes for maximum image performance in a variety of lighting conditions

Specifications

	icuti	0.10	1.0 MP		2.0 MP			3.0 MP		
IMAGE	Image Sens	or	1/2.8" progressive scan CMOS		2.0 100					
IMAGE PERFORMANCE								4.0		
	Aspect Ratio		16:9		1020 1000			4:3		
	Active Pixels		1280 x 720		1920 x 1080			2048 x 1536		
	Imaging Are		4.8 mm x 2.7mm; 0.189" x 0.106'					5.12 mm x 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	t -25 °C (-13 °F) or lo	ower				
	Illumination (high	9 - 22 mm lens:	70 m (230 ft) max. distance at 0 lux; 50 m (164 ft) at -25 °C (-13 °F) or lower							
	power 850									
	nm 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 l	0.08 lux (F1.6) in color mode; 0 lux (F1.6) in monochrome mode with IR						
	Image Rate	High Framerate	30 fps		30 fps		3	30 fps		
	Full Feature				12 fps		1	2 fps		
	Dynamic Range		67 dB							
	Dynamic Range (WDR		120 dB triple exposure (20 fps or less); 120 dB triple exposure (Full Feature Mode). WDR is disabled in High Framerate Mode							
	enabled)		100 dB dual exposure (30 fps)							
	Resolution Scaling		Down to 768 x 432							
	Camera Op	erating Mode	N/A High Framerate = Camera will prioritize maximum image rate over other features. W						other features. WDR is	
			disabled.							
			Full Feature = Camera will prioritize feature capabilities over image rate.						e rate.	
ONBOARD	Solid-State	Drive (SSD)	128 G 256 G				256 G			
STORAGE	Retention R	ate	Up to 30 days (2 Mbps stream b	ased on 30% mot	tion duty cycle)					
LENS	Lens	3 - 9 mm lens:	F1.3, P-Iris, remote focus and zo							
		9 - 22 mm lens:	F1.6, P-Iris, remote focus and zo							
	Angle of	3 - 9 mm lens:	30° – 91°					32° – 98°		
	View	9 - 22 mm lens:	30 – 91 14° – 29°					32 – 98 15° – 31°		
								10 - 51		
IMAGE CONTROL		pression Method	H.264 (MPEG-4 Part 10/AVC), M							
	Streaming		Multi-stream H.264 and Motion	JPEG						
	Bandwidth	Management	HDSM and Idle Scene Mode							
	Motion Detection		Pixel and classified objects							
	Camera Tar	npering Detection	Yes							
	Electronic S	hutter Control	Automatic, Manual (1/6 to 1/800	0 sec)						
	Iris Control		Automatic, Manual							
	Day/Night C	Control	Automatic, Manual							
	Flicker Con		Automatic, Manual 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 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		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						er access log, 80	02.1x port based auth	entication	
	Protocol		Password protection, HTTPS encryption, digest authentication, WS authentication, user access log, 802.1x port based authentication IPv4, HTTP, HTTPS, SOAP, DNS, NTP, RTSP, RTCP, RTP, TCP, UDP, IGMP, ICMP, DHCP, Zeroconf, ARP							
	Streaming Protocols									
	Device Man		RTP/UDP, RTP/UDP multicast, RTP/RTSP/TCP, RTP/RTSP/HTTP/TCP, RTP/RTSP/HTTPS/TCP, HTTP							
	Protocols	agement	SINIVIE VZC, SINIVIE VS	SNMP v2c, SNMP v3						
MECHANICAL	Dimensions	(L×W×H)	126 mm x 280 mm x 91 mm; 4.97" x 11.04" x 3.58" (including mounting bracket)							
	Weight C		1.71 kg (3.77 lbs)							
	-	Nounting Bracket:	0.21 kg (0. 46 lbs)							
	Body	<u>.</u>	Aluminum							
	Housing		Surface mount, tamper resistant							
	Finish	Denne	Powder coat, RAL 9003							
	Adjustment Range		$\pm 175^{\circ}$ pan, $\pm 90^{\circ}$ tilt, $\pm 175^{\circ}$ azimuth							
	Power Consumption		13 W							
ELECTRICAL	Fower Cons		VDC: 12 V ± 10%, 13 W min VAC: 24 V ± 10%, 19 VA min PoE: IEEE802.3af Class 3 compliant							
ELECTRICAL	Power Sour	ce	VDC: 12 V ± 10%, 13 W min							
ELECTRICAL			3V manganese lithium							
ELECTRICAL	Power Sour RTC Backup			CE	ROHS	WEEE	RCM	KC	EAC	
	Power Sour RTC Backup	Battery	3V manganese lithium	CE CSA 60950-1	ROHS	WEEE IEC/EN 60950-1		КС	EAC	
	Power Sour RTC Backup Certification Safety	b Battery ns/Directives	3V manganese lithium UL cUL UL 60950-1	CSA 60950-1		IEC/EN 60950-1	IEC 62471	КС	EAC	
	Power Sour RTC Backup Certification Safety Environmer	o Battery ns/Directives ntal	3V manganese lithium UL cUL UL 60950-1 IK10 Impact Rating	CSA 60950-1 UL/CSA/IEC 60	0950-22	IEC/EN 60950-1 IEC 60529 IP66	IEC 62471 Rating			
	Power Sour RTC Backup Certification Safety Environmer	b Battery ns/Directives	3V manganese lithium UL cUL UL 60950-1	CSA 60950-1	0950-22	IEC/EN 60950-1 IEC 60529 IP66	IEC 62471	KC EN 61000-3-2	EAC EN 61000-3-3 KN 32	
	Power Sour RTC Backup Certificatior Safety Environmer Electromag	o Battery ns/Directives ntal	3V manganese lithium UL cUL UL 60950-1 IK10 Impact Rating	CSA 60950-1 UL/CSA/IEC 60	0950-22	IEC/EN 60950-1 IEC 60529 IP66 EN 55022	IEC 62471 Rating			
CERTIFICATIONS	Power Sour RTC Backup Certification Safety Environmer Electromag	b Battery Is/Directives Ital Inetic Emissions Inetic Immunity	3V manganese lithium UL cUL UL 60950-1 IK10 Impact Rating FCC Part 15 Subpart B Class B EN 55024	CSA 60950-1 UL/CSA/IEC 60 IC ICES-003 CI	0950-22	IEC/EN 60950-1 IEC 60529 IP66 EN 55022 Class B	IEC 62471 Rating		EN 61000-3-3 KN 32	
	Power Sour RTC Backup Certification Safety Environmer Electromag Electromag	b Battery hs/Directives htal netic Emissions netic Immunity remperature	3V manganese lithium UL cUL UL 60950-1 IK10 Impact Rating FCC Part 15 Subpart B Class B EN 55024 -40 °C to +55 °C (-40 °F to 131 °F	CSA 60950-1 UL/CSA/IEC 60 IC ICES-003 CI	0950-22 lass B	IEC/EN 60950-1 IEC 60529 IP66 EN 55022 Class B EN 61000-6-1	IEC 62471 Rating		EN 61000-3-3 KN 32	
CERTIFICATIONS	Power Sour RTC Backup Certification Safety Environmer Electromag Deperating T IR Illuminato	a Battery ns/Directives atal netic Emissions netic Immunity iemperature or Behavior	3V manganese lithium UL cUL UL 60950-1 IK10 Impact Rating FCC Part 15 Subpart B Class B EN 55024 -40 °C to +55 °C (-40 °F to 131 °F IR illuminator will not turn on if to	CSA 60950-1 UL/CSA/IEC 60 IC ICES-003 CI	0950-22 lass B	IEC/EN 60950-1 IEC 60529 IP66 EN 55022 Class B EN 61000-6-1	IEC 62471 Rating		EN 61000-3-3 KN 32	
CERTIFICATIONS	Power Sour RTC Backup Certification Safety Environmer Electromag Electromag	a Battery ns/Directives atal netic Emissions netic Immunity iemperature or Behavior	3V manganese lithium UL cUL UL 60950-1 IK10 Impact Rating FCC Part 15 Subpart B Class B EN 55024 -40 °C to +55 °C (-40 °F to 131 °F	CSA 60950-1 UL/CSA/IEC 60 IC ICES-003 CI	0950-22 lass B	IEC/EN 60950-1 IEC 60529 IP66 EN 55022 Class B EN 61000-6-1	IEC 62471 Rating		EN 61000-3-3 KN 32	

SUPPORTED VIDEO ANALYTICS EVENTS	Objects in Area	bjects 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	n 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 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 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 SS2 AccessIt! DDS Amadeus 5 DSX							
	Additional Features	 Email event notification Unlimited rule triggers Digital input email trigger Manual digital output trigger Audio recording and talkdown Audio recording on level of site activity (site, camera, analytics, etc), redundant recording to a secondary server may exhibit a degradation in performance. 							

Outline Dimensions



[5.15] 131

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		
	lunction boy for LIAA		20122						
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								
H4-AC-WIFI1-EU	USB Wifi Adapter								