# a Motorola Solutions Company

# 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<sup>™</sup> 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 cost-effective surveillance solution.

Avigilon HDSM SmartCodec technology<sup>™</sup> 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 day of video retention

Self-learning video analytics

Patented Advanced Video Pattern Detection and Teach by Example Technology

Patented High Definition Stream Management (HDSM)<sup>™</sup> 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<sup>™</sup> 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	3.0 MP				
IMAGE PERFORMANCE	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	2048 x 1536				
	Imaging Are	a (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"					
	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 (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) in monochrome mode with IR						
	Image Rate High Framerate		30 fps	30 fps					
		Full Feature	30 103	30 fps 12 fps	12 fps				
	Dynamic Ra		67 dB						
			) 120 dB triple exposure (20 fps or less); 120 dB triple exposure (Full Feature Mode). WDR is disabled in High Framerate 100 dB dual exposure (30 fps)						
	Resolution Scaling		Down to 768 x 432						
	Camera Operating Mode		N/A	High Framerate = Camera w disabled.	III prioritize maximum image rate over other features. WDR is				
				Full Feature = Camera will p	rioritize feature capabilities over image rate.				
	3D Noise Re	eduction Filter	Yes	Yes	Yes				
ONROADD	Solid-State 1	Drive (SSD)	(2) 6	255.6	256.0				
ONBOARD STORAGE	Solid-State I Retention Ra		128 G	256 G	256 G				
			Up to 30 days (2 Mbps stream based on 30	o & motion daty 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°				
	Midaa Car								
IMAGE CONTROL	Video Com	pression	H.264 (MPEG-4 Part 10/AVC), Motion JPEG	, HDSM SmartCodec Technology					
	Streaming		Multi-stream H.264 and Motion JPEG						
	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						
	Audio Compression Method		G.711 PCM 8 kHz						
	Audio Input/Output		Line level input and output						
	External I/C	) 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		IPv6, 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						
	Streaming	Protocols	RTF/ODF, RTF/ODF Inulucasi, RTF/RTSF/T	ice, KIE/KIJE/III IE/ICF, KIE/KIJE/III	The second se				

MECHANICAL	Dimensions (LxWxH)	126 mm x 280 mm x 91 mm; 4.97" x 11.04		1 mounting bracket)				
MEGHANIGAL	Weight Camera:	1.71 kg (3.77 lbs)	A o.oo (monuanig	inounang proceety				
	Mounting Bracket:	0.21 kg (0. 46 lbs)						
	Body	Aluminum						
	Housing	Surface mount, tamper resistant						
	Finish	Powder coat, RAL 9003						
	Adjustment Range							
	Aujusunent Range	±175° pan, ±90° tilt, ±175° azimuth						
	Power Consumption	13 W						
ELECTRICAL	Power Source	VDC: 12 V ± 10%, 13 W min	VAC: 24 V ± 10%, 19 VA min			PoE: IEEE802.3af Class 3 compliant		
	RTC Backup Battery	3V manganese lithium	*AG. 2	4 V 1 10 %, 15 VA MIN		FUC. IECEBUA	2.5di Class 5 Comp	
ERTIFICATIONS	Certifications/Directives	UL CUL CE	ROHS	WEEE	RCM	EAC	КС	BIS
	Safety	UL 60950-1 CSA	60950-1	IEC/EN 60950-1	IEC 62471			
	Environmental	IK10 Impact Rating UL/C	SA/IEC 60950-22	IEC 60529 IP66 Rati	ing			
	Electromagnetic Emissions	FCC Part 15 Subpart B Class B IC IC	ES-003 Class B	EN 55032 Class B	EN 61000-6-3	EN 61000-3-2	EN 61000-3-3	EN 55011
	Electromagnetic Immunity	EN 55024		EN 61000-6-1				
NVIRONMENTAL	Operating Temperature	-40 °C to +55 °C (-40 °F to 131 °F)						
	IR Illuminator Behavior	IR illuminator will not turn on if temperatu	re is 45 °C (113 °F) o	or higher				
	Storage Temperature	-10 °C to +70 °C (14 °F to 158 °F)						
	Humidity	0 - 95% non-condensing						
	Objects in Area	The event is triggered when the selecte	d object type move	es into the region of into	erest			
ULE BASED		The event is triggered when the selecte		in the second second second		nded amount of tir		
ULE BASED	Object Loitering	The event is triggered when the selecte	d object type stays	within the region of int	erest for an exter			lel ed com
ULE BASED			d object type stays d number of objec	within the region of int	erest for an exter			eld of view.
ULE BASED	Object Loitering	The event is triggered when the selecte The event is triggered when the specifie	d object type stays d number of objec ctional.	within the region of int	erest for an exter ectional beam the	at is configured ov		eld of view.
ULE BASED	Object Loitering Objects Crossing Beam Object Appears or Enters	The event is triggered when the selecte The event is triggered when the specifie The beam can be unidirectional or bidire	d object type stays d number of object at enters the region	within the region of int its have crossed the dir n of Interest. This event	erest for an exter ectional beam the	at is configured ov		eld of view.
ULE BASED	Object Loitering Objects Crossing Beam Object Appears or Enters Area	The event is triggered when the selecte The event is triggered when the specifie The beam can be unidirectional or bidire The event is triggered by each object th The event is triggered when no objects.	d object type stays d number of object ectional. at enters the region are present in the r	within the region of Int ts have crossed the dir n of Interest. This event region of interest.	terest for an exter rectional beam the	at is configured ov		eld of view.
ULE BASED	Object Loitering Objects Crossing Beam Object Appears or Enters Area Object Not Present In Area Objects Enter Area	The event is triggered when the selecte The event is triggered when the specifie The beam can be unidirectional or bidine The event is triggered by each object th The event is triggered when no objects The event is triggered when the specifie	d object type stays d number of objec cctional. at enters the region are present in the r d number of objec	within the region of Int ts have crossed the dir n of Interest. This event region of interest. ts have entered the reg	terest for an exter rectional beam that t can be used to c gion of interest.	at is configured ov		eld of view.
ULE BASED	Object Loitering Objects Crossing Beam Object Appears or Enters Area Object Not Present In Area Objects Enter Area Objects Leave Area	The event is triggered when the selecte The event is triggered when the specifie The beam can be unidirectional or bidine The event is triggered by each object th The event is triggered when no objects. The event is triggered when the specifie The event is triggered when the specifie	d object type stays d number of objec cctional. at enters the regloi are present in the r d number of objec d number of objec	within the region of int ts have crossed the dir n of interest. This event region of interest. ts have entered the reg ts have left the region of	terest for an exter ectional beam the t can be used to o gion of interest. of interest.	at is configured ov		eld of view.
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ULE BASED	Object Loitering Objects Crossing Beam Object Appears or Enters Area Object Not Present in Area Objects Leave Area Objects Leave Area Object Stops in Area Direction Violated	The event is triggered when the selecte The event is triggered when the specifie The beam can be unidirectional or bidire The event is triggered by each object th The event is triggered when no objects. The event is triggered when the specifie The event is triggered when the specifie The event is triggered when an object in The event is triggered when an object m	d object type stays d number of object citional. at enters the region are present in the r d number of object d number of object a region of interest oves in the prohib	within the region of int ts have crossed the dir n of interest. This event region of interest. ts have entered the region ts have left the region of st stops moving for the lited direction of travel.	terest for an exter ectional beam the t can be used to o gion of interest. of interest.	at is configured ov		eld of view.
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### Ordering Information

	MP	WDR	LightCatcher Technology	Analytics	Storage	Lens	IR	HDSM SmartCodec
1.0C-H4A-12G-BO1-IR(-B)*	1.0	1	~	J	128 G	3 - 9 mm	1	1
1.0C-H4A-12G-BO2-IR(-B)*	1.0	1	~	1	128 G	9 - 22 mm	1	3
2.0C-H4A-25G-BO1-IR(-B)*	2.0	~	~	1	256 G	3 - 9 mm	1	~
2.0C-H4A-25G-BO2-IR(-B)*	2.0	1	~	1	256 G	9 - 22 mm	1	1
3.0C-H4A-25G-BO1-IR(-B)*	3.0	1	1	1	256 G	3 - 9 mm	1	1
3.0C-H4A-25G-BO2-IR(-B)*	3.0	1	1	1	256 G	9 - 22 mm	1	1
* These models are obviously identical ( B)* denists on u	adated bardwara version							

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

H4-BO-JBOX1 H4-MT-POLE1

H4-MT-CRNR1

H4-AC-WIFI2-NA

H4-AC-WIFI2-EU

Junction box for H4A-BO-IR H4 HD Bullet Cameras

Aluminum pole mounting bracket for H4 HD Pendant Dome Cameras and H4 HD Bullet Cameras Aluminum corner mounting bracket for H4 HD Pendant Dome Cameras and H4 HD Bullet Cameras USB Wifi Adapter USB Wifi Adapter

Mar 2019 --- Rev 7