H4 HD Camera with Self-Learning Analytics



Avigilon offers a broad range of high definition cameras – from 1-5 MP and 4-7K (based on horizontal resolution) – and are available in a variety of formats, including dome, panoramic and fixed. Whether it's a small storefront that requires a few cameras or a large complex system requiring complete coverage of numerous areas, you can trust that you're getting an exceptional solution for your security needs.

The innovative H4 HD camera is just one way Avigilon can help provide effective monitoring and protection.



Embedded with self-learning video analytics, the H4 HD cameras seamlessly integrate with Avigilon Control Center (ACC)™, allowing security personnel to respond proactively and mitigate an incident before damage is done. The H4 HD camera features an integrated lens for remote focus and zoom control, and is ONVIF compliant for easy integration. It operates on the Avigilon H4 platform, providing enhanced HDSM™ software features, triple Exposure Ultra-Wide Dynamic Range (WDR) and patented LightCatcher™ technology ensuring you receive excellent image detail in areas where lighting is less than ideal. P-Iris control also allows the camera to automatically set its iris position to enhance image quality in all lighting conditions. Onboard storage capabilities let you manage storage directly on the camera using a standard SD memory card. This camera is extremely versatile and can work in almost any location, including banks, schools, retail outlets, municipal grounds and buildings, hotels, bars and restaurants.

KEY FEATURES

1-5 megapixel and 4K Ultra HD (8 MP) resolution

Patented Advanced Video Pattern Detection and Teach by Example Technology

Self-learning video analytics

Patented High Definition Stream Management (HDSM)™ Technology

Available with 3-9 mm F1.3, 4.3-8 mm F1.8, 4.7-84.6 mm F1.6, or 9-22 mm F1.6 P-Iris lens with remote focus and zoom

Wifi camera configuration support

Avigilon LightCatcher technology provides exceptional image quality in low light environments (1-5 MP models)

Triple Exposure Ultra Wide Dynamic Range (1-3 MP models)

ONVIF API compliance with version 1.02, 2.00 and Profile S

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

Idle Scene Mode lowers the bandwidth and storage usage if there are no motion events detected in the scene

Full Feature or High Framerate camera operating modes (4K Ultra HD model)

RS-485 interface

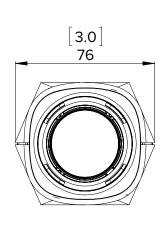
Specifications

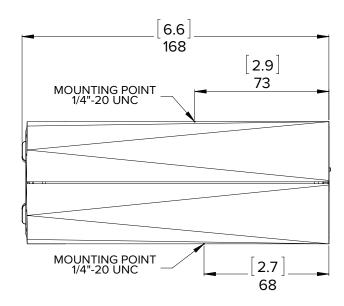
			1.0 MP	2.0 MP	3.0 MP		5.0 MP		4K ULTRA HD	(8.0 MP)
IMAGE	MAGE Image Sensor		1/2.8" progressive	e scan CMOS			1/1.8" progress	sive scan CMOS	1/2.3" progressive	
PERFORMANCE	Aspect Ratio		16:9		4:3				16:9	
	Active Pixels (H x V)		1280 x 720	1920 x 1080	2048 x 1536		2592 x 1944		3840 x 2160	
	Imaging Area (H x V)		4.8 mm x 2.7mm;		5.12 mm x 3.		6.22 mm x 4.6		5.95 mm x 3.35 m	m;
	Minimum	3 - 9 mm lens:	0.189" x 0.106" 0.04 lux (F1.3) in	color mode; 0.00	0.202" x 0.1! 08 lux (F1.3) in	monochrome mo	0.245" x 0.183 de N/A		0.234" × 0.132"	
	Illumination	4.3 - 8 mm lens	N/A				0.033 lux (F1.8) in		0.29 lux (F1.8) in c	olor mode;
		4.7 - 84.6 mm lens:	0.09 luy (E1.6) in	color modo: 0.0°	I6 luy (E1 6) in	monochromo mo		in monochrome mode	0.058 lux (F1.8) in	monochrome mode
		9 - 22 mm lens:						in color mode:	N/A	
			0.08 lux (F1.6) in color mode; 0.016 lux (F1.6) in monochrome			0.005 lux (F1.6)	0.005 lux (F1.6) in monochrome mode			
	Image Rate		30 fps 30 fps (20 fps with WDR enabled)			20 fps (30 fps in High Framerate mode		ligh Framerate mode)		
	Dynamic Range Dynamic Range (WDR		67 dB 120 dB triple exposure (20 fps or less); 100 dB dual exposure (30			83 dB		91 dB		
	enabled)		fps)				N/A		N/A	
	Resolution Scaling		Down to 768 x 432			Down to 1792	x 1344	Down to 3072 x 17	728	
	Camera Operating Mode		N/A						gh Framerate mode (HDSM disabled in High Framerate	
LENS	Lens	3 - 9 mm lens:	F1.3, P-Iris, remo	ote focus and z	oom					
LLING		4.3 - 8 mm lens:	F1.8, P-Iris, remote focus and zoom							
		4.7 - 84.6 mm	F1.6 P-Iris, remote focus and zoom							
		lens: 9 - 22 mm lens:	F1.6, P-Iris, remote focus and zoom							
	Angle of	3 - 9 mm lens:	30° – 91°	ote rocus una z	32° – 98°		N/A			
	View	4.3 - 8 mm lens:	N/A		02 00		46° – 86°		44° – 81°	
		4.7 - 84.6 mm	3.3° – 55°		3.5° – 59°		N/A			
		lens: 9 - 22 mm lens:	14° – 29°		15° – 31°		18° – 41°		N/A	
				D + 40 (A) (O) A			10 11		14/4	
IMAGE CONTROL	_	pression Method	H.264 (MPEG-4	,.						
	Streaming	Management	Multi-stream H.:			HD) HDSM 2.0; (A	J. I.) Idlo Scopo N	Modo		
	Bandwidth Management Motion Detection		Selectable sens			1D) HD3N 2.0, (A	CL) idle Scelle iv	lode		
		Shutter Control								
	Iris Control		Automatic, Manual (1/6 to 1/8000 sec) Automatic, Manual							
	Day/Night 0	Control	Automatic, Manual							
	Flicker Con	trol	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 USB Port		Alarm In, Alarm	Out						
			USB 2.0 Micro							
NETWORK	Network		100BASE-TX							
	Cabling Type		CAT5							
	Connector ONVIF		RJ-45 ONV/E compliant with version 1.02, 2.00. Profile S and 2.2.0 of the Analytics Service Specification							
			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 IPv4, HTTP, HTTPS, SOAP, DNS, NTP, RTSP, RTCP, RTP, TCP, UDP, IGMP, ICMP, DHCP, Zeroconf, ARP							
	Protocol Streaming Protocols									
	Device Management		RTP/UDP, RTP/UDP multicast, RTP/RTSP/TCP, RTP/RTSP/HTTP/TCP, RTP/RTSP/HTTPS/TCP, HTTP SNMP v2c, SNMP v3							
	Protocols		,							
			4.7 – 84.6 MM	LENS		3 – 9 MM LENS	4	.3 – 8 MM LENS	9 – 2	2 MM LENS
MECHANICAL	Dimensions	s (LxWxH)	168 mm x 76 mm	x 67 mm; 6.6" x	3.0" x 2.6"	167 mm x 76 mm >	67 mm; 6.6" x 3.0)" x 2.6"		
	Weight		0.62 kg (1.4 lbs) 0.57 kg (1.3 lbs)							
	Camera Mount		1/4"-20 UNC (top and bottom)							
	Onboard Storage		SD/SDHC/SDXC slot – minimum class 4; class 6 or better recommended							
ELECTRICAL	Power Consumption		8 W							
	Power Source		VDC: 12 V +/- 10%, 8 W min							
	Power Connector		2-pin terminal block							
	RTC Backup Battery		3V manganese li	thium						
ENVIRONMENTAL			-10 °C to +60 °C (14 °F to 140 °F) (8.0 MP only) -10 °C to +50 °C (14 °F to 122 °F)							
	Storage Temperature		-10 °C to +70 °C (14 °F to 158 °F)							
	Humidity		0 - 95% non-con							
CERTIFICATIONS				cUL	CE		EEE		KC	EAC
	Safety		UL 60950-1		10.10=0		SA 60950-1		IEC/EN 60950-1	EN 04000 0 0 101
	Electromagnetic Emissions		FCC Part 15 Subp	oart B Class B	IC ICES-003				EN 61000-3-2	EN 61000-3-3 KN 32
	Electromagnetic Immunity		EN 55024			El	N 61000-6-1		KN 35	

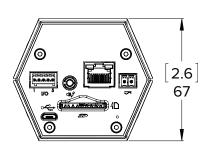
Objects in Area	The event is triggered when the selected object type moves into the region of interest.
Object Loitering	The event is triggered when the selected object type stays within the region of interest for an extended amount of time.
Objects Crossing Beam	The event is triggered when the specified 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.

Outline Dimensions

4.7-84.6 mm lens

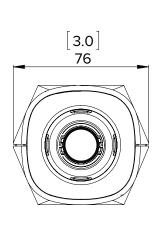


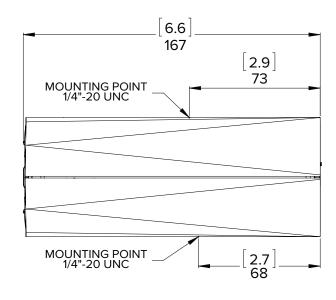


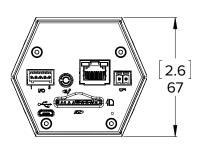


[X.X]	INCHES
X	MM

3-9 mm lens | 4.3-8 mm lens | 9-22 mm lens







Ordering Information

	MP	WDR	LIGHTCATCHER	ANALYTICS	LENS	DAY/NIGHT			
1.0C-H4A-B1	1.0	✓	✓	✓	4.7 - 84.6 mm	✓			
1.0C-H4A-B2	1.0	✓	✓	✓	3 - 9 mm	✓			
1.0C-H4A-B3	1.0	✓	✓	✓	9 - 22 mm	✓			
2.0C-H4A-B1	2.0	✓	✓	✓	4.7 - 84.6 mm	✓			
2.0C-H4A-B2	2.0	✓	✓	✓	3 - 9 mm	✓			
2.0C-H4A-B3	2.0	✓	✓	✓	9 - 22 mm	✓			
3.0C-H4A-B1	3.0	✓	✓	✓	4.7 - 84.6 mm	✓			
3.0C-H4A-B2	3.0	✓	✓	✓	3 - 9 mm	✓			
3.0C-H4A-B3	3.0	✓	✓	✓	9 - 22 mm	✓			
5.0L-H4A-B2	5.0		✓	✓	4.3 - 8 mm	✓			
5.0L-H4A-B3	5.0		✓	✓	9 - 22 mm	✓			
8.0-H4A-B2	8.0			✓	4.3 - 8 mm	✓			
H4-AC-WIFI1-NA	USB Wifi Adapter								
CM-AC-AVIO1	3.5 mm Jack with 1.8 m Fly Wire								