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

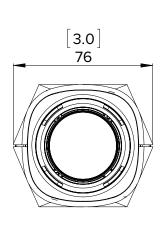
Specifications

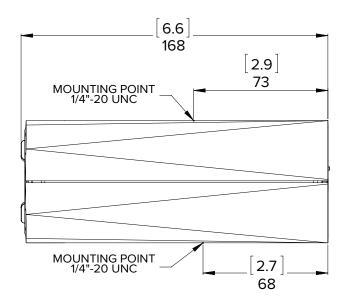
			1.0 MP	2.0 MP	3.0 MP		5.0 MP		4K ULTRA HD	(8.0 MP)	
IMAGE	Image Sens	sor	1/2.8" progressiv	e scan CMOS			1/1.8" progres	sive scan CMOS	1/2.3" progressive		
PERFORMANCE	Aspect Ratio		16:9		4:3				16:9		
	Active Pixels (H x V)		1280 x 720	1920 x 1080	2048 x 1536	ŝ	2592 x 1944		3840 x 2160		
	Imaging Area (H x V)		4.8 mm x 2.7mm;		5.12 mm x 3		6.22 mm x 4.		5.95 mm x 3.35 m	nm;	
	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 10 (F1.3) ir	วเ า monochrome mo	0.245" x 0.183 ode N/A	3	0.234" x 0.132"		
	Illumination	4.3 - 8 mm lens	N/A		. ,		0.033 lux (F1.8)	0.033 lux (F1.8) in color mode; 0.		0.29 lux (F1.8) in color mode;	
		47 - 84 6 mm lens:	0.09 luy (E1.6) in	color modo: 0.0°	16 luy /E1 6\ in	monochromo mo		0.0066 lux (F1.8) in monochrome mode 0.058 lux (F1.8) in monochrome mode			
	9 - 22 mm lens:) in color modo:	N/A			
			0.08 lux (F1.6) in color mode; 0.016 lux (F1.6) in monochrome mode		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)				
	Dynamic Range Dynamic Range (WDR		67 dB			83 dB		91 dB			
	enabled)		120 dB triple exposure (20 fps or less); 100 dB dual exposure (30 fps)				O N/A		N/A		
	Resolution Scaling		Down to 768 x 432			Down to 1792	2 x 1344	Down to 3072 x 1			
	Camera Operating Mode		N/A						gh Framerate mode (HDSM disabled in High Framerate		
			2.0 and analytics disabled in High Frame mode)						disabled in Flight Famerate		
LENS	Lens	3 - 9 mm lens:	F1.3, P-Iris, remo	ote focus and z	oom						
		4.3 - 8 mm lens:	F1.8, P-Iris, remote focus and zoom								
		4.7 - 84.6 mm lens:	F1.6 P-Iris, remote focus and zoom								
		9 - 22 mm lens:	F1.6, P-Iris, remote focus and zoom								
		3 - 9 mm lens:	30° – 91°		32° – 98°		N/A				
	View	4.3 - 8 mm lens:	N/A				46° – 86°		44° – 81°		
		4.7 - 84.6 mm lens:	3.3° – 55°		3.5° – 59°		N/A				
		9 - 22 mm lens:	14° – 29°		15° – 31°		18° – 41°		N/A		
IMAGE CONTROL	Image Com	pression Method	H.264 (MPEG-4	Part 10/AVC), N	Motion JPEG	;					
	Streaming		Multi-stream H.	264 and Motion	n JPEG						
	Bandwidth Management		(1.0 - 3.0 MP) HI	DSM; (5.0 MP a	nd 4K Ultra	HD) HDSM 2.0; (ALL) Idle Scene I	Mode			
	Motion Detection		Selectable sens	sitivity and thre	shold						
	Electronic Shutter Control		Automatic, Manual (1/6 to 1/8000 sec)								
	Iris Control		Automatic, Manual								
	Day/Night 0		Automatic, Manual								
	Flicker Control		50 Hz, 60 Hz								
	White Balance		Automatic, Manual								
	Backlight Compensation		Adjustable								
	Privacy Zones Audio Compression Method		Up to 64 zones G.711 PCM 8 kHz								
	Audio Compression Metriod 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, SNM	P v3							
			4.7 – 84.6 MM	LENS		3 – 9 MM LEN	5 4	.3 – 8 MM LENS	9 – 2	2 MM LENS	
MECHANICAL	Dimensions (LxWxH)				3.0" x 2.6"	167 mm x 76 mm	x 67 mm; 6.6" x 3.				
	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 PoE: IEEE802.3af Class 3 compliant								
	Power Connector		VAC: 24 V +/- 10%, 12 VA min 2-pin terminal block								
	RTC Backup Battery		3V manganese li								
ENVIRONMENTAL	0 " 7		-10 °C to +60 °C (14 °F to 140 °F)							
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	aensing							
CERTIFICATIONS				cUL	CE		VEEE	RCM	KC	EAC	
	Safety		UL 60950-1		10.10=0		CSA 60950-1	ENLOGODO -	IEC/EN 60950-1	EN 64000 2 2 101	
	Electromagnetic Emissions		FCC Part 15 Subj	oart B Class B	IC ICES-003		N 55022 Class B	EN 61000-6-3	EN 61000-3-2	EN 61000-3-3 KN 32	
	⊏iectromag	netic Immunity	EN 55024			L	N 61000-6-1		KN 35		

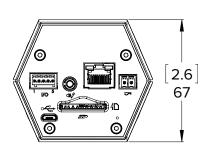
Objects in Area	The event is triggered when the selected object type moves into the region of interest.
Object Loitering	The event is triggered when the selected object type stays within the region of interest for an extended amount of time.
Objects Crossing Beam	The event is triggered when the specified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

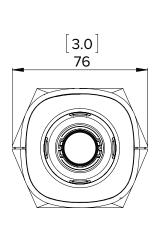


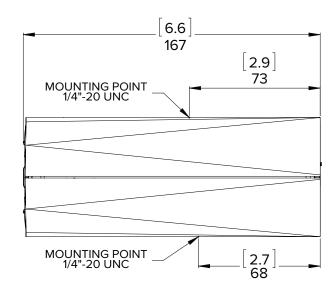


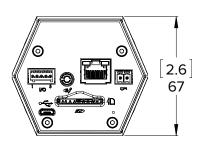


[X.X]	INCHES
X	MM

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							