H4 HD Outdoor Dome Camera with Self-Learning Video 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 outdoor dome cameras are just one way Avigilon can help provide effective monitoring and protection.







The H4 HD outdoor dome cameras are a great solution for monitoring both daytime and nighttime activities, with peace of mind due to their vandal resistant construction. 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. They feature an integrated lens for remote focus and zoom control and are ONVIF compliant for easy integration. Avigilon outdoor dome cameras are equipped with new Triple Exposure Ultra-Wide Dynamic Range (WDR) and patented LightCatcher™ technology, ensuring you receive the excellent image detail. P-Iris control also allows the cameras to automatically set their iris position to enhance image quality in all lighting conditions, while onboard storage capabilities let you manage storage directly on the cameras using a standard SD memory card. These cameras are 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, or 9-22 mm F1.6 P-Iris lens with remote focus and zoom

Wifi camera configuration support

Zoom and content adaptive integrated IR (Infrared) LEDs provide uniform illumination in the dark, even at 0 lux, up to a maximum of 30 m (98 ft) away

Avigilon LightCatcher technology provides exceptional image quality in low light environments

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

ONVIF compliant with version 2.2.0 of the Analytics Service Specification

Vandal resistant construction and IP66 compliant

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

Idle Scene Mode lowers 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)

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Specifications

Specili			1.0 MP	2.0 MP	3.0 MP	5.0		4K ULTRA HD (8.0 MP)		
IMAGE	Image Sense		1/2.8" progressiv	ve scan CMOS		1/1.8"	progressive scan CMOS	1/2.3" progressive scan CMOS		
PERFORMANCE	Aspect Ratio		16:9		4:3			16:9		
	Active Pixels		1280 x 720	1920 x 1080	2048 x 1536		2 x 1944	3840 x 2160		
	Imaging Are			n; 0.189" x 0.106"	5.12 mm x 3.84 mm; 0.202"	x 0.151" 6.22	mm x 4.66 mm; 0.245" x 0.18	33 5.95 mm x 3.35 mm; 0.234" x 0.132"		
	IR Illuminatio	on Option 850 nm LEDs)	30 m (98 ft) max	x. distance at 0 lux	L			15 m (50 ft) max distance at 0 lux		
	Minimum	3 -9 mm lens:	0.04 lux (F1.3) in	color mode; 0.00	8 lux (F1.3) in monochrome	mode N/A		N/A		
	Illumination	4.3 - 8 mm lens:	N/A			0.033	lux (F1.8) in color mode;	0.29 lux (F1.8) in color mode;		
						0.006	6 lux (F1.8) in monochrome mod	de 0.058 lux (F1.8) in monochrome mode		
	9 - 22 mm lens:		0.08 lux (F1.6) in color mode; 0.016 lux (F1.6) in monochrome mode				0.026 lux (F1.6) in color mode; N/A 0.005 lux (F1.6) in monochrome mode			
	Image Rate (Full Resolution)		30 fps		30 fps (20 fps with WDR			20 fps (30 fps in High Framerate mode)		
	Dynamic Range		67 dB			83 dB 91 dB				
	Dynamic Range (WDR Enabled)		120 dB triple exposure (20 fps or less); 100 dB dual exposure (30 fps)			(30 fps) N/A				
	Resolution Scaling		Down to 768 x 432				n to 1792 x 1344	Down to 3072 x 1728		
	Camera Operating Mode		N/A					Full Feature or High Framerate mode (H		
								and analytics disabled in High Framerate		
LENS	Lens	3 - 9 mm lens:	F1.3, P-Iris, remc	ote focus and zoor	m					
	4.3 - 8 mm lens: 9 - 22 mm lens:		F1.8, P-Iris, remote focus and zoom							
			F1.6, P-Iris, remote focus and zoom							
	Angle of	3 - 9 mm lens:	30° – 91°	ste locus and 2001	32° – 98°	N/A				
	View						969	4.4° 04°		
		4.3 - 8 mm lens:	N/A		N/A	46° -		44° – 81°		
		9 - 22 mm lens:	14° – 29°		15° – 31°	18° –	- 41°	N/A		
MAGE CONTROL	Image Compression Method		H.264 (MPEG-4	Part 10/AVC), Mot	ion JPEG					
	Streaming		Multi-stream H.264 and Motion JPEG							
	Bandwidth N	Management	(1.0 - 3.0 MP) HDSM; (5.0 MP and 4K Ultra HD) HDSM 2.0; (ALL) Idle Scene Mode							
	Motion Dete	ection	Pixel and classif	Pixel and classified objects						
	Camera Tarr	npering Detection	Yes							
	Electronic Shutter Control		Automatic, Man	ual (1/6 to 1/8000 :	sec)					
	Iris Control		Automatic, Man	Automatic, Manual (1/0 to 1/0/000 sec)						
	Day/Night Control		Automatic, Manu	ual						
	Flicker Cont	rol	50 Hz, 60 Hz							
	White Balan	ce	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, 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		Alarm In, Alarm Out							
	USB Port	Terrininalo	USB 2.0	out						
NETWORK	Network		100BASE-TX							
	Cabling Type		CAT5							
	Connector		RJ-45							
	ONVIF		ONUF compliant with version 1.02, 2.00, Profile S and 2.2.0 of the Analytics Service Specification ("hounding boxes and scene descriptions not available with thirdnarty VMS)							
	Security		("bounding boxes and scene descriptions not available with third-party VMS) 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/L	JDP multicast, RTF	P/RTSP/TCP, RTP/RTSP/HTT	P/TCP, RTP/RTSI	P/HTTPS/TCP, HTTP			
		agement Protocols								
		5								
				OME CAMERA				INT OUTDOOR DOME CAMERA		
MECHANICAL	Dimensions (LxWxH)		dome camera o	,	172 mm x 172 mm x 124 mm		,	x 121 mm; (6.4" x 6.4" x 4.8")		
					275 mm x 172 mm x 152.1 m					
	Weight		dome camera o		172 mm x 172 mm x 172.3 m 1.55 kg (3.42 lbs)	111 (0.8 X 6.8) X 1	6.8") 1.35 kg (2.97 lbs)			
	gin			,						
			with wall mount (H4-MT-WALL1): 3.00 kg (6.62 lbs) with NPT mount (H4-MT-NPTA1): 1.80 kg (3.98 lbs)							
	Dome Bubb	le	Polycarbonate, clear							
	Body		Aluminum							
	Housing		Pendant mount, vandal resistant - with wall mount (H4-MT-WALL1) / NPT mount Surface mount, vandal resistant							
	Finish		(H4-MT-NPTAI) Powder coat, RAL 9003							
		Pango			with JP option) ±190° animut					
	Adjustment Range		360° pan, 9° – 95° tilt (30° – 95° with -IR option), ±180° azimuth							
	Onboard Sto	-	SD/SDHC/SDXC slot – minimum class 4; class 6 or better recommended							
ELECTRICAL	Power Cons	umption	7 W (9 W for -IR	option)						
	Power Source		VDC: 12 V +/- 10%, 7 W min (9 W min with -IR option) PoE: IEEE802.3af Class 3 compliant VAC: 24 V +/- 10%, 10 VA min (13 VA min with -IR option)							
	Power Conn	lector	VAC: 24 V +/- 10%, 10 VA min (13 VA min with -IR option) 2-pin terminal block							
	RTC Backup		3V manganese l							
		•								
ENVIRONMENTAL	Operating Temperature		-40 °C to +60 °C (-40 °F to 140 °F) (80 MP only) -40 °C to +50 °C (-40 °F to 122°F)							
	Storage Temperature			(8.0 MP only) -40 °C to +50 °C (-40 °F to 122°F) -10 °C to +70 °C (14 °F to 158 °F)						
	Humidity	,	-10 °C to +70 °C (14 °F to 158 °F) 0 - 95% non-condensing							
	Certifications/Directives		UL UL 60950-1		CE ROHS	WEEE		RCM		
CERTIFICATIONS		Safety			CSA 60950-1	IEC/EN 60	0950-1	IEC 62471 (for -IR options only)		
CERTIFICATIONS										
CERTIFICATIONS	Safety Environment	tal	UL/CSA/IEC 609	950-22	IEC 60529 IP66 Rating	IK10 Impa				
CERTIFICATIONS	Environment	tal netic Emissions	UL/CSA/IEC 609 FCC Part 15 Sub		IEC 60529 IP66 Rating IC ICES-003 Class B	IK10 Impa EN 55022		EN 61000-6-3 EN 61000-3-2 EN 61000-		

SUPPORTED VIDEO ANALYTICS EVENTS

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5	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.

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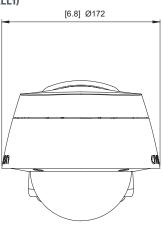
INCHES

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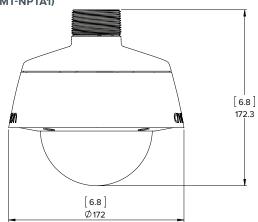
Outline Dimensions

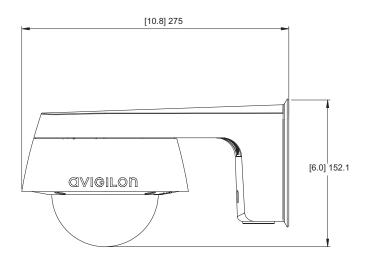
Pendant Dome Camera

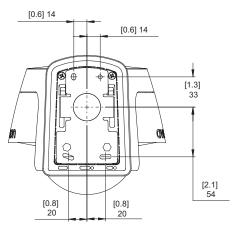
WITH WALL MOUNT (H4A-MT-WALL1)

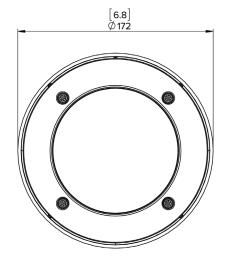






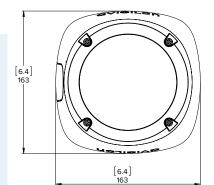


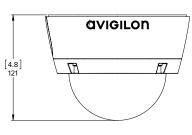


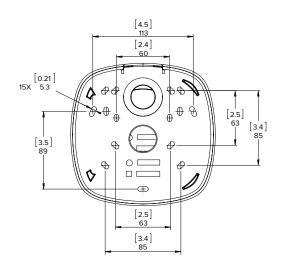


Surface Mount Outdoor Dome Camera

(H4A-DO)







Ordering Information

PENDANT DOME CAMERAS	MP	WDR	LIGHTCATCHER	ANALYTICS	LENS	IR			
1.0C-H4A-DP1	1.0	\checkmark	\checkmark	\checkmark	3 - 9 mm				
1.0C-H4A-DP1-IR	1.0	\checkmark	\checkmark	\checkmark	3 - 9 mm	\checkmark			
1.0C-H4A-DP2	1.0	\checkmark	\checkmark	\checkmark	9 - 22 mm				
2.0C-H4A-DP1	2.0	\checkmark	\checkmark	\checkmark	3 - 9 mm				
2.0C-H4A-DP1-IR	2.0	\checkmark	\checkmark	\checkmark	3 - 9 mm	\checkmark			
2.0C-H4A-DP2	2.0	\checkmark	\checkmark	\checkmark	9 - 22 mm				
3.0C-H4A-DP1	3.0	\checkmark	\checkmark	\checkmark	3 - 9 mm				
3.0C-H4A-DP1-IR	3.0	\checkmark	\checkmark	\checkmark	3 - 9 mm	\checkmark			
3.0C-H4A-DP2	3.0	\checkmark	\checkmark	\checkmark	9 - 22 mm				
5.0L-H4A-DP1	5.0		\checkmark	\checkmark	4.3 - 8 mm				
5.0L-H4A-DP1-IR	5.0		\checkmark	\checkmark	4.3 - 8 mm	\checkmark			
5.0L-H4A-DP2	5.0		\checkmark	\checkmark	9 - 22 mm				
8.0-H4A-DP1	8.0			\checkmark	4.3 - 8 mm				
8.0-H4A-DP1-IR	8.0			\checkmark	4.3 - 8 mm	\checkmark			
H4A-MT-WALL1	Indoor/Outdoor Pendant Wall Arm Mount								
H4A-MT-NPTA1	Indoor/Outdoor Pendant NPT Mount								
H4A-DP-SMOK1	Dome Camera Cover with Smoked Bubble								
H4A-DP-CLER1	Dome Camera Cover with Clear Bubble								
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								
H4A-AC-GROM1	Camera Sealing Grommet, Pack of 10								
H4-AC-WIFI1-NA	USB Wifi Adapter								
CM-AC-AVIO1	3.5 mm Jack with 1.8 m Fly Wires								
CM-AC-GROM1	Pipe Grommet, Pack of 10								

SURFACE MOUNT OUTDOOR DOME CAMERAS	MP	WDR	LIGHTCATCHER	ANALYTICS	LENS	IR			
1.0C-H4A-DO1	1.0	\checkmark	\checkmark	\checkmark	3 - 9 mm				
1.0C-H4A-DO1-IR	1.0	\checkmark	\checkmark	\checkmark	3 - 9 mm	\checkmark			
1.0C-H4A-DO2	1.0	\checkmark	\checkmark	\checkmark	9 - 22 mm				
2.0C-H4A-DO1	2.0	\checkmark	\checkmark	\checkmark	3 - 9 mm				
2.0C-H4A-DO1-IR	2.0	\checkmark	\checkmark	\checkmark	3 - 9 mm	\checkmark			
2.0C-H4A-DO2	2.0	\checkmark	\checkmark	\checkmark	9 - 22 mm				
3.0C-H4A-DO1	3.0	\checkmark	\checkmark	\checkmark	3 - 9 mm				
3.0C-H4A-DO1-IR	3.0	\checkmark	\checkmark	\checkmark	3 - 9 mm	\checkmark			
3.0C-H4A-DO2	3.0	\checkmark	\checkmark	\checkmark	9 - 22 mm				
5.0L-H4A-DO1	5.0		\checkmark	\checkmark	4.3 - 8 mm				
5.0L-H4A-DO1-IR	5.0		\checkmark	\checkmark	4.3 - 8 mm	\checkmark			
5.0L-H4A-DO2	5.0		\checkmark	\checkmark	9 - 22 mm				
8.0-H4A-DO1	8.0			\checkmark	4.3 - 8 mm				
8.0-H4A-DO1-IR	8.0			\checkmark	4.3 - 8 mm	\checkmark			
H4A-DO-SMOK1	Outdoor Dome Camera Cover with Smoked Bubble								
H4A-DO-CLER1	Outdoor Dome Camera Cover with Clear Bubble								
H4-AC-WIFI1-NA	USB Wifi Adapter								
H4A-AC-GROM1	Camera Sealing Grommet, Pack of 10								
CM-AC-AVIO1	3.5 mm Jack with 1.8 m Fly Wires								
CM-AC-GROM1	Pipe Grommet, Pack of 10								

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