

RUSTED SECURITY SOLUTIONS"

avigiLon

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. Avigilon HDSM SmartCodec technology™ 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

1-5 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

Avigilon HDSM SmartCodec technology for reduce bandwidth and storage requirements

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)

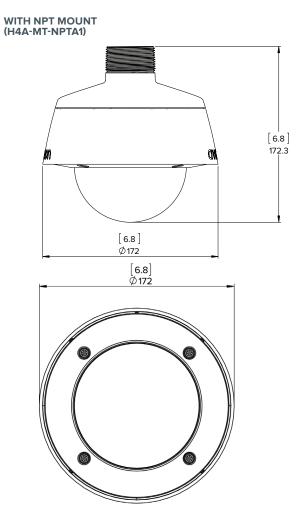
Specifications

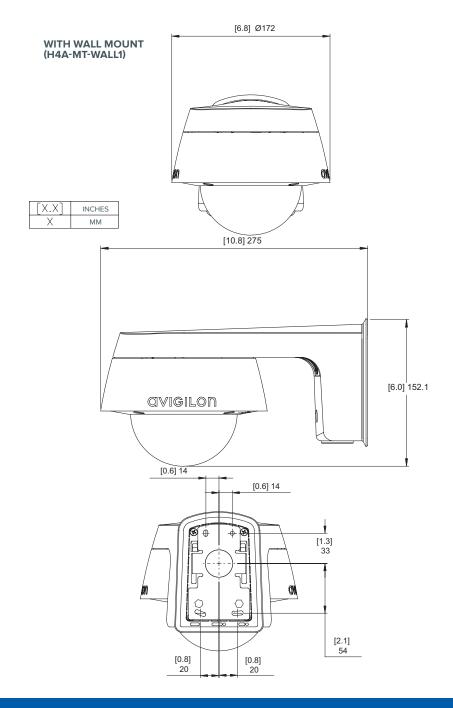
			1.0 MP	2.0 MP	3.0 MP	5.0 MP		4K ULTRA HD (8.0 MP)				
IMACE	Image Senso	or	1/2.8" progressive		3.0 IIII		essive scan CMOS	1/2.3" progressive scan CMOS				
IMAGE PERFORMANCE	Aspect Ratio		16:9	e scarr civios	4:3	i/i.o progri	essive scarr civios	16:9				
	Active Pixels		1280 x 720	1920 x 1080	2048 x 1536	2592 x 194	14	3840 x 2160				
	Imaging Area		4.8 mm x 2.7mm;		5.12 mm x 3.84 mm; 0.202" x		4.66 mm; 0.245"	5.95 mm x 3.35 mm; 0.234" x 0.132"				
	illiagilig Ale	3 (I1 X V)	4.0 11111 X 2.711111,	0.100 × 0.100	0.151"	x 0.183	4.00 11111, 0.245	5.55 Hill X 5.55 Hill, 0.254 X 0.152				
	IR Illuminatio		30 m (98 ft) max.	distance at 0 lux				15 m (50 ft) max distance at 0 lux				
		850 nm LEDs) 3 -9 mm lens:	0.04 lux (F1.3) in a	alar mada, 0.000	lux (F1.3) in monochrome mode	N/A		N/A				
	Illumination	4.3 - 8 mm lens:	0.04 lux (F1.5) III 0	.oloi illode, 0.00e	lux (Fl.3) III IIIoriochionie iiiode							
		4.5 - 8 111111 10115.	N/A				1.8) in color mode; (F1.8) in monochrome	0.29 lux (F1.8) in color mode; 0.058 lux (F1.8) in monochrome mode				
		9 - 22 mm lens:	0.08 lux (F1.6) in o	color mode; 0.016	lux (F1.6) in monochrome mode	0.026 lux (F	-1.6) in color mode; -1.6) in monochrome	N/A				
	Image Rate (Full Resolution)	30 fps		30 fps (20 fps with WDR enabled)			20 fps (30 fps in High Framerate mode)				
	Dynamic Range		67 dB			83 dB		91 dB				
	-		120 dB triple expe	osure (20 fps or le	ess); 100 dB dual exposure (30 fps)	N/A						
	Resolution Scaling		Down to 768 x 43	32		Down to 17	92 x 1344	Down to 3072 x 1728				
	Camera Ope	erating Mode	N/A					Full Feature or High Framerate mode (HDSM 2.0				
	2D Naise Reduction Filter		V					and analytics disabled in High Framerate mode)				
LENS			Yes	focus and zoom								
LENS	Lens 3 - 9 mm lens:		F1.3, P-Iris, remote									
		4.3 - 8 mm lens:	F1.8, P-Iris, remote									
		9 - 22 mm lens:	F1.6, P-Iris, remote	e focus and zoom								
		3 - 9 mm lens:	30° – 91°		32° – 98°	N/A						
	View	4.3 - 8 mm lens:	N/A		N/A	46° – 86°		44° – 81°				
		9 - 22 mm lens:	14° – 29°		15° – 31°	18° – 41°		N/A				
IMAGE CONTROL	Image Comp	ression Method	H.264 (MPEG-4 P	art 10/AVC), Motic	on JPEG							
	Streaming		Multi-stream H.264 and Motion JPEG									
	Bandwidth Management		(1.0 - 3.0 MP) HDSM; (5.0 MP and 4K Ultra HD) HDSM 2.0; (ALL) Idle Scene Mode									
	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 Contr		50 Hz, 60 Hz									
	White Balance		Automatic, Manual Adjustable									
	Backlight Compensation		Adjustable									
	Privacy Zones Audio Compression Method		Up to 64 zones G.7/1 PCM 8 kHz									
	Audio Compression Metriod 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 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									
	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/UI									
	Device Management Protocols		SNMP v2c, SNMF	v3								
			PENDANT DO	ME CAMERA			SURFACE MOUN	T OUTDOOR DOME CAMERA				
MECHANICAL	Dimensions (LxWxH)		dome camera on with wall mount (•	72 mm x 172 mm x 124 mm; (6.8" x 6. 75 mm x 172 mm x 152.1 mm (10.8" x							
	Weight		with NPT mount (H4-MT-NPTA1): $172 \text{ mm} \times 172 \text{ mm} \times 172.3 \text{ mm}$ (6.8" \times 6.8" \times 6.8 dome camera only: 1.55 kg (3.42 lbs)				8") 1.35 kg (2.97 lbs)					
			with wall mount (I with NPT mount (
	Dome Bubble		Polycarbonate, cl									
	Body		Aluminum									
	Housing			randal resistant - v	vith wall mount (H4-MT-WALL1) / NP1	T mount	Surface mount, vand	al resistant				
	Finish		(H4-MT-NPTA1) Powder coat, RAL 9003									
	Adjustment Range		360° pan, 9° – 95° tilt (30° – 95° with -IR option), ±180° azimuth									
	Onboard Storage		SD/SDHC/SDXC slot – minimum class 4; class 6 or better recommended									
ELECTRICAL	Power Consumption		7 W (9 W for -IR o	ption)								
	Power Source		VDC: 12 V +/- 10%, 7 W min (9 W min with -IR option) PoE: IEEE802.3af Class 3 compliant									
	Power Coppector		VAC: 24 V +/- 10%, 10 VA min (13 VA min with -IR option) 2-pin terminal block									
	Power Connector		3V manganese lithium									
END/IBONIA CONTRACTOR	RTC Backup Battery Operating Temperature		-									
ENVIRONMENTAL	Operating Temperature		-40 °C to +60 °C (-40 °F to 140 °F) (8.0 MP only) -40 °C to +50 °C (-40 °F to 122 °F)									
	Storage Temperature		-10 °C to +70 °C (14 °F to 158 °F)									
	Humidity		0 - 95% non-cond	densing								

CERTIFICATIONS	Certifications/Directives	UL	cUL	CE	ROHS	WEEE	RCM	KC	EAC		
	Safety	UL 60950-1		CSA 60950-1		IEC/EN 60950-1		IEC 62471 (for -IR options only)			
	Environmental	UL/CSA/IEC 60950-22		IEC 60529 IP66 Rating		IK10 Impact Rating					
	Electromagnetic Emissions	FCC Part 15 Subpart B Class B		IC ICES-003 C	IC ICES-003 Class B		EN 55032 Class B		EN 61000-3-2	EN 61000-3-3 KN 32	
	Electromagnetic Immunity	EN 55024				EN 61000-6-1			KN 35		
SUPPORTED											
VIDEO ANALYTICS EVENTS	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 tr	riggered when the	e specified numb	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				terest stops moving for the specified threshold time.					
	Direction Violated	The event is tr	riggered when an	object moves ir	ject moves in the prohibited direction of travel.						
	Tamper Detection	The event is tr	iggered when the	e scene unexpectedly changes.							

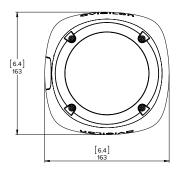
Outline Dimensions

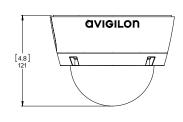
Pendant Dome Camera

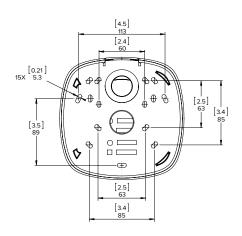




Surface Mount Outdoor Dome Camera







Ordering Information

PENDANT DOME CAMERAS	MP	WDR	LightCatcher Technology	Analytics	Lens	IR	HDSM SmartCodec			
1.0C-H4A-DP1	1.0	✓	✓	✓	3 - 9 mm		✓			
1.0C-H4A-DP1-IR	1.0	✓	✓	✓	3 - 9 mm	✓	✓			
1.0C-H4A-DP2	1.0	✓	✓	✓	9 - 22 mm		✓			
2.0C-H4A-DP1	2.0	✓	✓	✓	3 - 9 mm		✓			
2.0C-H4A-DP1-IR	2.0	✓	✓	✓	3 - 9 mm	✓	✓			
2.0C-H4A-DP2	2.0	✓	✓	✓	9 - 22 mm		✓			
3.0C-H4A-DP1	3.0	✓	✓	✓	3 - 9 mm		✓			
3.0C-H4A-DP1-IR	3.0	✓	✓	✓	3 - 9 mm	✓	✓			
3.0C-H4A-DP2	3.0	✓	✓	✓	9 - 22 mm		✓			
5.0L-H4A-DP1	5.0		✓	✓	4.3 - 8 mm		✓			
5.0L-H4A-DP1-IR	5.0		✓	✓	4.3 - 8 mm	✓	✓			
5.0L-H4A-DP2	5.0		✓	✓	9 - 22 mm		✓			
8.0-H4A-DP1	8.0			✓	4.3 - 8 mm		✓			
8.0-H4A-DP1-IR	8.0			✓	4.3 - 8 mm	✓	✓			
H4A-MT-WALL1	Indoor/Outdoor Pend	iant Wall Arm Mount								
H4A-MT-NPTA1	Indoor/Outdoor Pend	Indoor/Outdoor Pendant NPT Mount								
H4A-DP-SMOK1	Dome Camera Cove	Dome Camera Cover with Smoked Bubble								
H4A-DP-CLER1	Dome Camera Cove	Dome Camera Cover with Clear Bubble								
H4-MT-POLE1	Aluminum pole mour	Aluminum pole mounting bracket for H4 HD Pendant Dome Cameras and H4 HD Bullet Cameras								
H4-MT-CRNR1	Aluminum corner mo	Aluminum corner mounting bracket for H4 HD Pendant Dome Cameras and H4 HD Bullet Cameras								
H4A-AC-GROM1	Camera Sealing Gron	Camera Sealing Grommet, Pack of 10								
H4-AC-WIFI2-NA / H4-AC-WIFI2-EU	USB Wifi Adapter	USB Wifi Adapter								
CM-AC-AVIO1	O1 3.5 mm Jack with 1.8 m Fly Wires									
CM-AC-GROM1	Pine Grommet Pack	Pipe Grommet, Pack of 10								

SURFACE MOUNT OUTDOOR DOME CAMERAS	MP	WDR	LightCatcher Technology	Analytics	Lens	IR	HDSM SmartCodec
1.0C-H4A-D01	1.0	✓	✓	✓	3 - 9 mm		✓
1.0C-H4A-D01-IR	1.0	✓	✓	✓	3 - 9 mm	✓	✓
1.0C-H4A-DO2	1.0	✓	✓	✓	9 - 22 mm		✓
2.0C-H4A-D01	2.0	✓	✓	✓	3 - 9 mm		✓
2.0C-H4A-D01-IR	2.0	✓	✓	✓	3 - 9 mm	✓	✓
2.0C-H4A-DO2	2.0	✓	✓	✓	9 - 22 mm		✓
3.0C-H4A-D01	3.0	✓	✓	✓	3 - 9 mm		✓
3.0C-H4A-D01-IR	3.0	✓	✓	✓	3 - 9 mm	✓	✓
3.0C-H4A-DO2	3.0	✓	✓	✓	9 - 22 mm		✓
5.0L-H4A-D01	5.0		✓	✓	4.3 - 8 mm		✓
5.0L-H4A-D01-IR	5.0		✓	✓	4.3 - 8 mm	✓	✓
5.0L-H4A-DO2	5.0		✓	✓	9 - 22 mm		✓
8.0-H4A-DO1	8.0			✓	4.3 - 8 mm		✓
8.0-H4A-DO1-IR	8.0			✓	4.3 - 8 mm	✓	✓
H4A-DO-SMOK1	Outdoor Dome Camera Cover with Smoked Bubble						
H4A-DO-CLER1	Outdoor Dome Camera Cover with Clear Bubble						
H4-AC-WIFI2-NA / H4-AC-WIFI2-EU	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					