H4 HD Indoor 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 indoor dome cameras are just one way Avigilon can help provide effective monitoring and protection.





The H4 HD indoor dome cameras are a great solution for monitoring both daytime and nighttime activities. 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's indoor dome cameras are equipped with new Triple Exposure Ultra-Wide Dynamic Range (WDR) and patented LightCatcher™ technology, ensuring you receive 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

Wifi camera configuration support

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

Zoom and content adaptive integrated IR (Infared) 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 (1-5 MP models)

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

ONVIF compliant with version 2.2.0 of the Analytics Service Specification

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) Vandal resistant construction

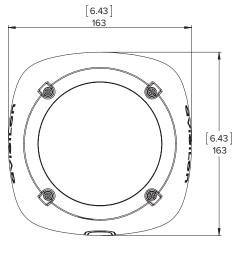
•	Cati	ons	1.0 MP	2.0 MP	3.0 MP	5.0 MP	4K ULTRA HD (8.0 MP)	
PERFORMANCE	Image Sense	or	1/2.8" progressiv	e scan CMOS		1/1.8" progressive scan CMOS	1/2.3" progressive scan CMOS	
	Aspect Ratio		16:9		4:3		16:9	
	Active Pixels (H x V)		1280 x 720	1920 x 1080	2048 x 1536	2592 x 1944	3840 x 2160	
	Imaging Are	a (H x V)	4.8 mm x 2.7mm		5.12 mm x 3.84 mm;	6.22 mm x 4.66 mm	5.95 mm x 3.35 mm	
			0.189" x 0.106"		0.202" x 0.151"	0.245" x 0.183	0.234" x 0.132"	
	IR Illuminatio	on (option) 850 nm LEDs)	30 m (98 ft) max	. distance at 0 lu:	x		15 m (50 ft) max distance at 0 lux	
		3 - 9 mm lens:	0.04 lux (F1.3) in	color mode; 0.00	08 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;	
							0.058 lux (F1.8) in monochrome mode	
	9 - 22 mm lens:		mode 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					
			0.08 lux (F1.6) in color mode; 0.016 lux (F1.6) in monochrome mode 0.026 lux (F1.6) in color mode; 0.005 lux (F1.6) in monochrome				N/A	
						mode		
	Image Rate (full resolution)		30 fps		30 fps (20 fps with WDR enabled	l) 30 fps	20 fps (30 fps in High Framerate mode)	
	Dynamic Range		67 dB			83 dB	91 dB	
	Dynamic Range (WDR		120 dB triple exp	osure (20 fps or	less); 100 dB dual exposure (30 fps) N/A	N/A	
	enabled) Resolution S	caling	Down to 768 x 432			Down to 1792 x 1344	Down to 3072 x 1728	
				52				
	Camera Operating Mode		N/A Full Feature or High Framerate mode (H 2.0 and analytics disabled in High Framerate mode (H 2.0 and analytics disabled in High Framerate mode).					
			2.0 and analytics disabled in High Framerate mode)					
ENS	Lens 3 - 9 mm lens:		F1.3, P-Iris, remote focus and zoom					
		4.3 - 8 mm lens:						
		9 - 22 mm lens:						
	Angle of	3 - 9 mm lens:	30° – 91°	te 10cus di10 z00	om 32° – 98°	N/A		
	View						//° 01°	
		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	
MAGE CONTROL	Image Com	oression Method	H.264 (MPEG-4	Part 10/AVC), Mo	tion JPEG			
	Streaming		Multi-stream H.2	64 and Motion J	IPEG			
	Bandwidth I	Management	Multi-stream H.264 and Motion JPEG (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 Classified Objects					
		npering Detection		•				
		hutter Control						
		nutter Control	Automatic, Manual (1/6 to 1/8000 sec)					
	Iris Control		Automatic, Manual					
	Day/Night C		Automatic, Manu	ıaı				
	Flicker Control		50 Hz, 60 Hz					
	White Balance		Automatic, Manual					
	Backlight Co	ompensation	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		Alarm In, Alarm Out					
	USB Port		USB 2.0					
	Matrical							
IETWORK	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					
	C		(*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 Man	agement	SNMP v2c, SNMP v3					
	Protocols							
			SURFACE MOUNT INDOOR DOME CAMERA			IN-CEILING DOME CAMERA	Δ	
MECHANICAL	Dimensions (LxWxH)		163 mm x 163 mm x 118 mm (6.4" x 6.4" x 4.7")			181 mm x 181 mm x 164 mm (7.1" x 7.1" x 6.5")		
	Weight		0.95 kg (2.09 lbs)			1.6 kg (3.5 lbs)		
	Dome Bubble					5 (.		
			Polycarbonate, clear			Plastic Aluminum		
	Body		Plastic, Aluminum Surface mount tamper resistant			Plastic, Aluminum Possessed mount, tamper resistant		
	Housing		Surface mount, tamper resistant			Recessed mount, tamper resistant		
	Finish		Plastic, gray; Aluminum, powder coat, black					
	Adjustment Range		360° pan, 9° - 95° tilt (30° - 95° tilt with -IR option), ±180° azimuth					
	Onboard Storage		SD/SDHC/SDXC slot – minimum class 4; class 6 or better recommended					
LECTRICAL	Power Consumption		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 Conr	ector	2-pin terminal bl	2-pin terminal block				
	RTC Backup	Battery	3V manganese	ithium				
NUMBER OF THE STATE OF THE STAT	One	omnorc*	-40 °C to +60 °C (-40 °F to 140 °F) (8.0 MP only) -40 °C to +50 °C (-40 °F to 122 °F)					
ENVIRONMENTAL	Operating T	emperature						
NVIRONMENTAL	Operating T			0 °C to +50 °C (-4				

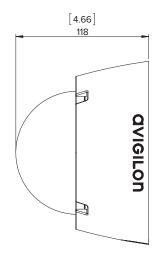
CERTIFICATIONS Certifications ROHS WEEE Safety UL 60950-1 CSA 60950-1 IEC/EN 60950-1 IEC 62471 (for -IR option) Electromagnetic Emissions FCC Part 15 Subpart B Class B EN 55022 Class B EN 61000-6-3 EN 61000-3-2 EN 61000-3-3 KN 32 Electromagnetic Immunity EN 55024 EN 61000-6-1 SUPPORTED Objects in Area The event is triggered when the selected object type moves into the region of interest VIDEO ANALYTICS Object Loitering The event is triggered when the selected object type stays within the region of interest for an extended amount of time. **EVENTS** 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. Object Appears or Enters 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 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.

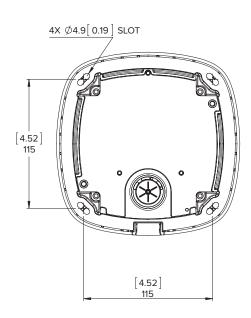
Outline Dimensions

Surface Mount Dome Camera

(H4A-D)



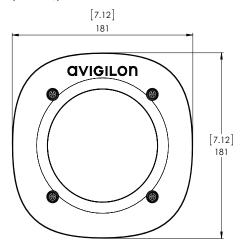


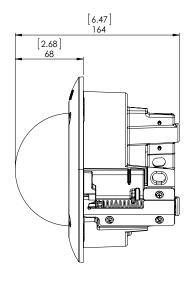


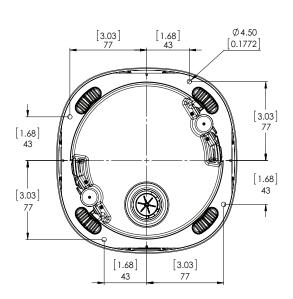
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In-Ceiling Dome Camera

(H4A-DC)







Ordering Information

SURFACE MOUNT INDOOR DOME CAMERAS	MP	WDR	LIGHTCATCHER	ANALYTICS	LENS	IR
1.0C-H4A-D1	1.0	✓	✓	✓	3 - 9 mm	
1.0C-H4A-D1-IR	1.0	✓	✓	✓	3 - 9 mm	✓
1.0C-H4A-D2	1.0	✓	✓	✓	9 - 22 mm	
2.0C-H4A-D1	2.0	✓	✓	✓	3 - 9 mm	
2.0C-H4A-D1-IR	2.0	✓	✓	✓	3 - 9 mm	✓
2.0C-H4A-D2	2.0	✓	✓	✓	9 - 22 mm	
3.0C-H4A-D1	3.0	✓	✓	✓	3 - 9 mm	
3.0C-H4A-D1-IR	3.0	✓	✓	✓	3 - 9 mm	✓
3.0C-H4A-D2	3.0	✓	✓	✓	9 - 22 mm	
5.0L-H4A-D1	5.0		✓	✓	4.3 - 8 mm	
5.0L-H4A-D2	5.0		✓	✓	9 - 22 mm	
5.0L-H4A-D1-IR	5.0		✓	✓	4.3 - 8 mm	✓
8.0-H4A-D1	8.0			✓	4.3 - 8 mm	
8.0-H4A-D1-IR	8.0			✓	4.3 - 8 mm	✓

H4A-DD-SMOK1	Indoor Dome Camera Cover with Smoked Bubble
H4A-DD-CLER1	Indoor Dome Camera Cover with Clear Bubble
H4A-DD-SMOK1-BL	Black Indoor Dome Camera Cover with Smoked Bubble
H4A-DD-CLER1-BL	Black Indoor Dome Camera Cover with Clear Bubble
H4A-DD-SDWL1	Indoor Dome Camera Sidewall Knockout Plug, Pack of 5
H4A-DD-SDWL1-BL	Indoor Black Dome Camera Sidewall Knockout Plug, Pack of 5
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

IN-CEILING DOME CAMERAS	MP	WDR	LIGHTCATCHER	ANALYTICS	LENS
1.0C-H4A-DC1	1.0	✓	✓	✓	3 - 9 mm
1.0C-H4A-DC2	1.0	✓	✓	✓	9 - 22 mm
2.0C-H4A-DC1	2.0	✓	✓	✓	3 - 9 mm
2.0C-H4A-DC2	2.0	✓	✓	✓	9 - 22 mm
3.0C-H4A-DC1	3.0	✓	✓	✓	3 - 9 mm
3.0C-H4A-DC2	3.0	✓	✓	✓	9 - 22 mm
5.0L-H4A-DC1	5.0		✓	✓	4.3 - 8 mm
5.0L-H4A-DC2	5.0		✓	✓	9 - 22 mm
8.0-H4A-DC1	8.0			✓	4.3 - 8 mm

H4A-DC-SMOK1	In-Ceiling Dome Camera Cover with Smoked Bubble	
H4A-DC-CLER1	In-Ceiling Dome Camera Cover with Clear Bubble	
H4A-DC-SMOK1-BL	Black In-Ceiling Dome Camera Cover with Smoked Bubble	
H4A-DC-CLER1-BL	Black In-Ceiling Dome Camera Cover with Clear Bubble	
H4A-DC-CPNL1	Metal Ceiling Panel	
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	