

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

Wi-Fi 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

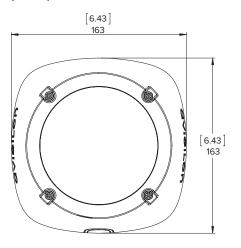
Full Feature or High Framerate camera operating modes (4K Ultra HD model)
Vandal resistant construction

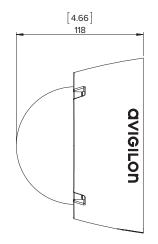
Specifi	catio	ons									
•	Specifications		1.0 MP	2.0 MP	3.0 MP	5.0 MP	4K ULTRA HD (8.0 MP)				
IMAGE PERFORMANCE	Image Sensor		1/2.8" progressiv	e scan CMOS		1/1.8" progressive scan CMOS	1/2.3" progressive scan CMOS				
	Aspect Ratio		16:9		4:3		16:9				
	Active Pixels (H x V)		1280 x 720	1920 x 1080	2048 x 1536	2592 x 1944	3840 x 2160				
	Imaging Area	a (H x V)			5.12 mm x 3.84 mm;	6.22 mm x 4.66 mm	5.95 mm x 3.35 mm				
	ID III		0.189" x 0.106"	distance at 0 lux	0.202" x 0.151"	0.245" x 0.183	0.234" x 0.132" 15 m (50 ft) max distance at 0 lux				
	IR Illumination (option) (High Power 850 nm LEDs)		30 III (36 II) IIIax.	distance at 0 lux		15 III (50 II) IIIax distance at 0 lux					
	Minimum	3 - 9 mm lens:	0.04 lux (F1.3) in	color mode; 0.008	3 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:	0.08 lux (F1.6) in a	color mode: 0.016	lux (F1.6) in monochrome mode	mode 0.026 lux (F1.6) in color mode;	N/A				
	5 22 11111 10115.		0.00 10% (1 1.0) 111		Tax (File) III monocimo me mede	0.005 lux (F1.6) in monochrome					
						mode					
	Image Rate (full resolution)		30 fps		30 fps (20 fps with WDR enabled)		20 fps (30 fps in High Framerate mode)				
	Dynamic Rar		67 dB			83 dB	91 dB				
	Dynamic Rar	nge (WDR enabled)	120 dB triple exp	osure (20 fps or le	ess); 100 dB dual exposure (30 fps)	N/A	N/A				
	Resolution S		Down to 768 x 43	32	Down to 3072 x 1728						
	Camera Operating Mode		N/A		Full Feature or High Framerate mode (HDSM 2.0 and analytics disabled in High Framerate mode)						
					and analytics disabled in Flight Tamerate mode)						
LENS	Lens	3 - 9 mm lens:	F1.3, P-Iris, remote focus and zoom								
		4.3 - 8 mm lens:	F1.8, 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		N/A	46° – 86°	44° – 81°				
		9 - 22 mm lens:	14° – 29°		15° – 31°	18° – 41°	N/A				
IMAGE CONTROL		pression Method		Part 10/AVC), Motio							
	Streaming			64 and Motion JP							
	Bandwidth I	Management	(1.0 - 3.0 MP) HD	SM; (5.0 MP and 4	K Ultra HD) HDSM 2.0; (ALL) Idle Sce	ene Mode					
	Motion Dete	ection	Pixel and Classifi	ied Objects							
	Camera Tar	mpering Detection	Yes								
	Electronic S	hutter Control	Automatic, Manual (1/6 to 1/8000 sec)								
	Iris Control		Automatic, Manual								
	Day/Night Control		Automatic, Manual								
	Flicker Control		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)								
			(1.0 - 2.0 MP only) NTSC/PAL, A/V mini-jack (3.5 mm)								
	Video Output				Timi-jack (3.3 mm)						
	External I/O Terminals USB Port		Alarm In, Alarm Out								
	O2R LOLL		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								
			(*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 Device Management		RTP/UDP, RTP/UDP multicast, RTP/RTSP/TCP, RTP/RTSP/HTTP/TCP, RTP/RTSP/HTTPS/TCP, HTTP								
			SNMP v2c, SNMP v3								
	Protocols										
			SUBFACE MC	OLINT INDOOR	DOME CAMEDA	IN-CEILING DOME CAMERA	A				
MEGUALUGA	Dimensions (LxWxH)		SURFACE MOUNT INDOOR DOME CAMERA 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					
MECHANICAL	Weight	(LAVVAII)	· · · · · ·			,					
	Dome Bubb	-1-	0.95 kg (2.09 lbs)			1.6 kg (3.5 lbs)					
		ле	Polycarbonate, clear			DL C AL					
	Body		Plastic, Aluminum			Plastic, Aluminum					
	Housing		Surface mount, tamper resistant			Recessed mount, tamper resistant					
	Finish		Plastic, gray			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								
ELECTRICA:	Power Consumption		7 W (Q W for ID	ontion)							
ELECTRICAL	Power Consumption		7 W (9 W for -IR (-	in with ID antion)	DocuMcFC002 2 of Close 2					
	Power Source		VDC: 12 V +/- 10%, 7 W min (9 W min with -IR option) VAC: 24 V +/- 10%, 10 VA min (13 VA min with -IR option)			PoE: IEEE802.3af Class 3 compliant					
	Power Connector		2-pin terminal blo								
	RTC Backup Battery		3V manganese lithium								
	0		40.00:	/ 40 0E : 1							
ENVIRONMENTAL	Operating T	emperature	-40 °C to +60 °C (8.0 MP only) -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		0 - 95% non-con	densing							

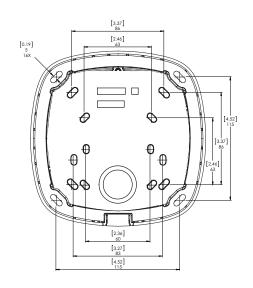
CERTIFICATIONS	Certifications	UL	cUL	CE	ROHS	WEEE	RCM	KC	EAC		
	Safety	UL 60950-1		CSA 60950-1		IEC/EN 60950-1		IEC 62471 (for -IR option)			
	Environmental	IK10 Impact Rating									
	Electromagnetic Emissions	FCC Part 15 Sub	part B Class B	IC ICES-003 CI	ass B	EN 55022 Clas	ss B	EN 61000-6-3	EN 61000-3-2	EN 61000-3-3	KN 32
	Electromagnetic Immunity	EN 55024				EN 61000-6-1		KN 35			
SUPPORTED VIDEO ANALYTICS	Objects in Area	The event is triggered when the selected object type moves into the region of interest.									
EVENTS	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

Surface Mount Dome Camera (H4A-D)

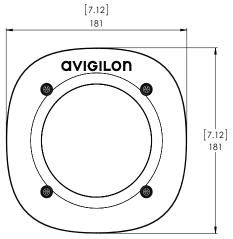


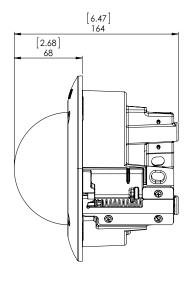


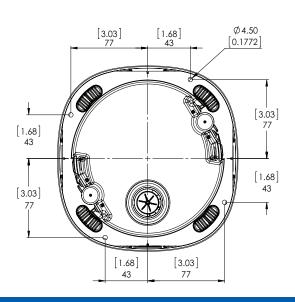


[X.X]	INCHES
X	MM

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 Cov	er with Smoked Bubble							
H4A-DD-CLER1	Indoor Dome Camera Cov	er 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 Wi-Fi Adapter								
H4-AC-WIFI2-EU	USB Wi-Fi 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							
H4-DC-CPNL1	Metal Ceiling Panel							
H4A-AC-GROM1	Camera Sealing Grommet, Pack of 10							
H4-AC-WIFI1-NA	USB Wi-Fi Adapter							
H4-AC-WIFI2-EU	USB Wi-Fi Adapter							
CM-AC-AVIO1	3.5 mm Jack with 1.8 m Fly Wires							