# 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.





#### **KEY FEATURES**

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)<sup>™</sup>, 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.

### 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)<sup>™</sup> 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

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# Specifications

Specili	Call	UIIS	1.0 MP	2.0 MP	3.0 MP	5.0 MP	4K ULTRA HD (8.0 MP)				
IMAGE	Image Senso		1/2.8" progressiv		5.0 MF	1/1.8" progressive scan CMOS	1/2.3" progressive scan CMOS				
PERFORMANCE	Aspect Ratio		16:9		4:3	and progressive sear enree	16:9				
			1280 x 720	1920 x 1080	2048 x 1536	2592 x 1944	3840 x 2160				
	Active Pixels (H x V) Imaging Area (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				
	Indging Arc		0.189" x 0.106"	•	0.202" × 0.151"	0.245" x 0.183	0.234" × 0.132"				
	IR Illuminatio		30 m (98 ft) max.	distance at 0 lux			15 m (50 ft) max distance at 0 lux				
	(High Power 850 nm LEDs) Minimum 3 - 9 mm lens:		0.04 lux (F1.3) in	color mode: 0.008	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;				
							0.058 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; 0.005 lux (F1.6) in monochrome mode	N/A				
	Image Rate (	full resolution)	30 fps		30 fps (20 fps with WDR enabled)		20 fps (30 fps in High Framerate mode)				
	Dynamic Rar	nge	67 dB			83 dB	91 dB				
	Dynamic Rar	nge (WDR	120 dB triple exp	osure (20 fps or le	ess); 100 dB dual exposure (30 fps)	N/A	N/A				
	enabled) Resolution Scaling		Down to 768 x 4	32	Down to 3072 x 1728						
		erating Mode	N/A		Full Feature or High Framerate mode (HDSM						
			2.0 and analytics disabled in High Framer mode)								
LENS	Lens	3 - 9 mm lens:	F1.3, P-Iris, remote focus and zoom								
LLING	4.3 - 8 mm lens:		F1.8, P-Iris, remote focus and zoom								
		9 - 22 mm lens:		te focus and zoon							
		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), Moti							
	Streaming		Multi-stream H.264 and Motion JPEG								
		Management	(1.0 - 3.0 MP) HDSM; (5.0 MP and 4K Ultra HD) HDSM 2.0; (ALL) Idle Scene Mode								
	Motion Dete		Pixel and Classified Objects								
		pering Detection	Yes								
		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)								
	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 (*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 Protocols	agement	SNMP v2c, SNMP v3								
			SURFACE MOUNT INDOOR DOME CAMERA			IN-CEILING DOME CAMERA					
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		Polycarbonate, clear								
	Body		Plastic, Aluminum			Plastic, Aluminum					
	Housing		Surface mount, tamper resistant			Recessed mount, tamper resistant					
	Finish		Plastic, gray		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								
ELECTRICAL			7 W (9 W for -IR option)								
ELECTRICAL	Power Consumption Power Source		/ W (9 W tor -IR option)     VDC: 12 V +/- 10%, 7 W min (9 W min with -IR option)     PoE: IEEE802.3af Class 3 compliant								
	Fower Source	Je	VDC: 12 V +/- 10%, 7 W min (9 W min with -IR option) PoE: IEEE802.3at Class 3 compliant VAC: 24 V +/- 10%, 10 VA min (13 VA min with -IR option)								
	Power Conn	ector	2-pin terminal block								
	RTC Backup	Battery	3V manganese lithium								
ENVIRONMENTAL	Operating T	emperature	-40 °C to +60 °C	(-40 °F to 140 °F)							
LITTINOTAL	, parading h		-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 Terr	nperature	-10 °C to +70 °C (14 °F to 158 °F)								
	Humidity		0 - 95% non-cor	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 Subpart B Class B		IC ICES-003 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		KN 35				
SUPPORTED	Objects in Area	cts in Area The event is triggered when the selected object type moves into the region of interest.										
VIDEO ANALYTICS 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 MM

### In-Ceiling Dome Camera







# Ordering Information

H4-AC-WIFI1-NA

CM-AC-AVIO1

SURFACE MOUNT INDOOR DOME CAMERAS	MP	WDR	LIGHTCATCHER	ANALYTICS	LENS	IR			
1.0C-H4A-D1	1.0	$\checkmark$	$\checkmark$	$\checkmark$	3 - 9 mm				
1.0C-H4A-D1-IR	1.0	$\checkmark$	$\checkmark$	$\checkmark$	3 - 9 mm	$\checkmark$			
1.0C-H4A-D2	1.0	$\checkmark$	$\checkmark$	$\checkmark$	9 - 22 mm				
2.0C-H4A-D1	2.0	$\checkmark$	$\checkmark$	$\checkmark$	3 - 9 mm				
2.0C-H4A-D1-IR	2.0	$\checkmark$	$\checkmark$	$\checkmark$	3 - 9 mm	$\checkmark$			
2.0C-H4A-D2	2.0	$\checkmark$	$\checkmark$	$\checkmark$	9 - 22 mm				
3.0C-H4A-D1	3.0	$\checkmark$	$\checkmark$	$\checkmark$	3 - 9 mm				
3.0C-H4A-D1-IR	3.0	$\checkmark$	$\checkmark$	$\checkmark$	3 - 9 mm	$\checkmark$			
3.0C-H4A-D2	3.0	$\checkmark$	$\checkmark$	$\checkmark$	9 - 22 mm				
5.0L-H4A-D1	5.0		$\checkmark$	$\checkmark$	4.3 - 8 mm				
5.0L-H4A-D2	5.0		$\checkmark$	$\checkmark$	9 - 22 mm				
5.0L-H4A-D1-IR	5.0		$\checkmark$	$\checkmark$	4.3 - 8 mm	$\checkmark$			
8.0-H4A-D1	8.0			$\checkmark$	4.3 - 8 mm				
8.0-H4A-D1-IR	8.0			$\checkmark$	4.3 - 8 mm	$\checkmark$			
H4A-DD-SMOK1	Indoor Dome Camera Co	over with Smoked Bubble							
H4A-DD-CLER1	Indoor Dome Camera Cover with Sinoked 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	$\checkmark$	$\checkmark$	$\checkmark$	3 - 9 mm				
1.0C-H4A-DC2	1.0	$\checkmark$	$\checkmark$	$\checkmark$	9 - 22 mm				
2.0C-H4A-DC1	2.0	$\checkmark$	$\checkmark$	$\checkmark$	3 - 9 mm				
2.0C-H4A-DC2	2.0	$\checkmark$	$\checkmark$	$\checkmark$	9 - 22 mm				
3.0C-H4A-DC1	3.0	$\checkmark$	$\checkmark$	$\checkmark$	3 - 9 mm				
3.0C-H4A-DC2	3.0	$\checkmark$	$\checkmark$	$\checkmark$	9 - 22 mm				
5.0L-H4A-DC1	5.0		$\checkmark$	$\checkmark$	4.3 - 8 mm				
5.0L-H4A-DC2	5.0		$\checkmark$	$\checkmark$	9 - 22 mm				
8.0-H4A-DC1	8.0			$\checkmark$	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								

USB Wifi Adapter

3.5 mm Jack with 1.8 m Fly Wires

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