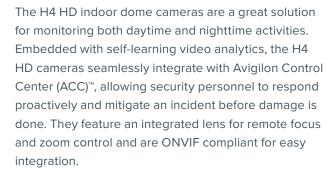


H4 HD Indoor Dome Camera with Self-Learning Video Analytics

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.





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. 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

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

 $\label{lightCatcher} A vigilon\ Light Catcher\ technology\ provides\ exceptional\ image\ quality\ in\ low\ light\ environments\ (1-5\ MP\ models)$

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

ONVIF compliant with version 2.2.0 of the Analytics Service Specification

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)

Vandal resistant construction

Specifications

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PF	R	F	O	R	м	Δ	N	C.	E

		1.0 MP	2.0 MP	3.0 MP	5.0 MP	4K ULTRA HD (8.0 MP)		
Image Senso	or	1/2.8" progressi	ve scan CMOS		1/1.8" progressive scan CMOS	1/2.3" progressive scan CMOS		
Aspect Ratio)	16:9		4:3		16:9		
Active Pixels	s (H x V)	1280 x 720	1920 x 1080	2048 x 1536	2592 x 1944	3840 x 2160		
Imaging Area (H x V)		4.8 mm x 2.7mn 0.189" x 0.106"	n;	5.12 mm x 3.84 mm; 0.202" x 0.151"	6.22 mm x 4.66 mm 0.245" x 0.183	5.95 mm x 3.35 mm 0.234" x 0.132"		
IR Illuminatio (High Power	on (option) 850 nm LEDs)	30 m (98 ft) max	x. distance at 0 lu	X		15 m (50 ft) max distance at 0 lux		
Minimum Illumination	3 - 9 mm lens:	0.04 lux (F1.3) in mode	color mode; 0.0	08 lux (F1.3) in monochrome	N/A	N/A		
4.3 - 8 mm lens:		N/A			0.033 lux (F1.8) in color mode; 0.0066 lux (F1.8) in monochrome 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) ir mode	n color mode; 0.0	16 lux (F1.6) in monochrome	0.026 lux (F1.6) in color mode; 0.005 lux (F1.6) in monochrome mode			
Image Rate ((full resolution)	30 fps		30 fps (20 fps with WDR enabled)	30 fps	20 fps (30 fps in High Framerate mode)		
Dynamic Rar	nge	67 dB		·	83 dB	91 dB		
Dynamic Rar enabled)	nge (WDR	120 dB triple ex (30 fps)	posure (20 fps o	less); 100 dB dual exposure	N/A	N/A		
Resolution Scaling		Down to 768 x 432			Down to 1792 x 1344	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)		
3D Noise Re	duction Filter	Yes						

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 zoo	8, P-Iris, remote focus and zoom						
	9 - 22 mm lens:	F1.6, P-Iris, remote focus and zoo	om						
	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 Compression Method	H.264 (MPEG-4 Part 10/AVC), Motion 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 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 Management Protocols	SNMP v2c, SNMP v3

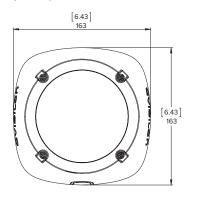
MECHANICAL

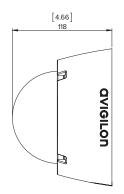
	SURFACE MOUNT INDOOR DOME CAMERA	IN-CEILING DOME CAMERA
Dimensions (LxWxH)	163 mm x 163 mm x 118 mm (6.4" x 6.4" x 4.7")	181 mm x 181 mm x 164 mm (7.1" x 7.1" x 6.5")
Weight	0.95 kg (2.09 lbs)	1.6 kg (3.5 lbs)
Dome Bubble	Polycarbonate, clear	
Body	Plastic, Aluminum	Plastic, Aluminum
Housing	Surface mount, tamper resistant	Recessed mount, tamper resistant
Finish	Plastic, gray	Plastic, gray; Aluminum, powder coat, black
Adjustment Range	360° pan, 9° - 95° tilt (30° - 95° tilt with -IR option), $\pm 180^\circ$ azimuth	
Onboard Storage	SD/SDHC/SDXC slot – minimum class 4; class 6 or better recommendation	nended

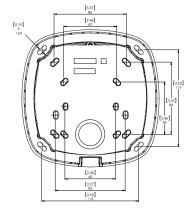
ELECTRICAL	Power Consumption	7 W (9 W for -IR	option)								
	Power Source			V min with -IR op 3 VA min with -II		PoE:	IEEE802.3a	f Class 3 compli	ant		
	Power Connector	2-pin terminal b	-pin terminal block								
	RTC Backup Battery	3V manganese	lithium								
ENVIRONMENTAL	Operating Temperature		40 °C to +60 °C (-40 °F to 140 °F) 3.0 MP only) -40 °C to +50 °C (-40 °F to 122 °F)								
	Storage Temperature	-10 °C to +70 °C	10 °C to +70 °C (14 °F to 158 °F)								
	Humidity	0 - 95% non-co	ndensing								
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 Rati	ng								
	Electromagnetic Emissions	FCC Part 15 Sub	part B Class B	IC ICES-003 C	lass B	EN 55032 Class B		EN 61000-6-3	EN 61000-3-2	EN 61000-3-3 KN	N 32
	Electromagnetic Immunity	EN 55024				EN 61000-6-1			KN 35		
SUPPORTED	Objects in Area	The event is trig	gered when the	n 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 trig	gered when no o	objects are prese	nt in the regior	of interest.					
	Objects Enter Area	The event is trig	gered when the	specified number	r of objects hav	ve entered the re	gion of inter	est.			
	Objects Leave Area	The event is trig	gered when the	specified number	r of objects hav	ve left the region	of interest.				
	Object Stops in Area	The event is trig	gered when an c	bject in a region	of interest stop	os moving for the	specified th	reshold time.			
	Direction Violated	The event is trig	gered when an c	bject moves in th	ne prohibited o	lirection of travel					
	Tamper Detection	The event is triggered when the scene unexpectedly changes.									

Outline Dimensions

Surface Mount Dome Camera (H4A-D)

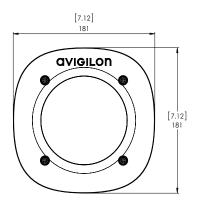


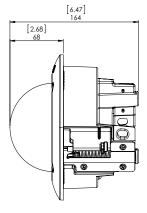


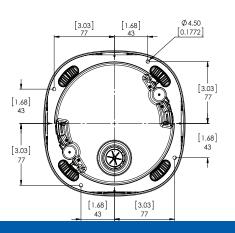


[X.X]	INCHES
Χ	MM

In-Ceiling Dome Camera (H4A-DC)







Ordering Information

SURFACE MOUNT INDOOR DOME CAMERAS	MP	WDR	LightCatcher Technology	Analytics	Lens	IR	HDSM SmartCodec
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 Cam	era Cover with Sm	noked Bubble				
H4A-DD-CLER1	Indoor Dome Cam	era Cover with Cle	ear Bubble				
H4A-DD-SMOK1-BL	Black Indoor Dome	e Camera Cover w	vith Smoked Bubble				
H4A-DD-CLER1-BL	Black Indoor Dome	e Camera Cover w	vith Clear Bubble				
H4A-DD-SDWL1	Indoor Dome Cam	era Sidewall Knoc	kout Plug, Pack of 5				
H4A-DD-SDWL1-BL	Indoor Black Dome	Camera Sidewal	l Knockout Plug, Pack of 5				
H4A-AC-GROM1	Camera Sealing G	ommet, Pack of 10	0				
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 Technology	Analytics	ı	Lens	HDSM SmartCodec
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 Co	amera Cover with	Smoked Bubble				
H4A-DC-CLER1	In-Ceiling Dome Co						
H4A-DC-SMOK1-BL			er with Smoked Bubble				
H4A-DC-CLER1-BL			er with Clear Bubble				
H4-DC-CPNL1	Metal Ceiling Pane						
H4A-AC-GROM1	Camera Sealing G		0				
	USB Wi-Fi Adapter						
H4-AC-WIFI1-NA							
H4-AC-WIFI1-NA H4-AC-WIFI2-EU	USB Wi-Fi Adapter						