



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. 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

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

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

IM	Α	GI						
PE	R	FC)R	M	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 Are	a (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	k. distance at 0 lu	IX		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	o 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	r less); 100 dB dual exposure	N/A	N/A
Resolution S	icaling	Down to 768 x	432		Down to 1792 x 1344	Down to 3072 x 1728
Camera Ope	erating 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 zoo	F1.3, P-Iris, remote focus and zoom							
	4.3 - 8 mm lens:	F1.8, P-Iris, remote focus and zoo	om							
	9 - 22 mm lens:	F1.6, P-Iris, remote focus and zoo	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

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

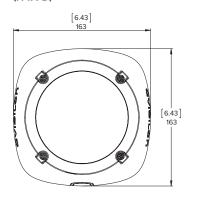
MECHANICAL

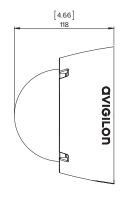
	SURFACE MOUNT INDOOR DOME CAMERA	IN-CEILING DOME CAMERA				
Dimensions (LxWxH)	163 mm x 163 mm x 118 mm (6.4" x 6.4" x 4.7")	181 mm x 181 mm x 164 mm (7.1" x 7.1" x 6.5")				
Weight	0.95 kg (2.09 lbs)	1.6 kg (3.5 lbs)				
Dome Bubble	Polycarbonate, clear					
Body	Plastic, Aluminum	Plastic, Aluminum				
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 recommended					

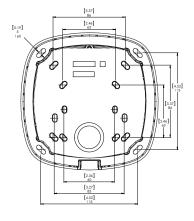
ELECTRICAL	Power Consumption	7 W (9 W for -IR	option)									
	Power Source			V min with -IR op 3 VA min with -II		PoE:	IEEE802.3a	f Class 3 compli	ant			
	Power Connector	2-pin terminal b	lock									
	RTC Backup Battery	3V manganese	V manganese lithium									
ENVIRONMENTAL	Operating Temperature		C to +60 °C (-40 °F to 140 °F) 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-co	95% non-condensing									
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	ing									
	Electromagnetic Emissions	FCC Part 15 Sub	part B Class B	IC ICES-003 C	lass B	EN 55032 Cla	ss B	EN 61000-6-3	EN 61000-3-2	EN 61000-3-3 K	N 32	
	Electromagnetic Immunity	EN 55024				EN 61000-6-1			KN 35			
SUPPORTED	Objects 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 trig	gered when the	selected object ty	ype stays withi	in the region of ir	nterest for an	extended amou	nt 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 trig	gered by each o	bject that enters t	the region of ir	nterest. This ever	nt can be use	ed to count objec	ts.			
	Object Not Present in Area	The event is trig	gered when no o	objects are prese	nt in the region	n of interest.						
	Objects Enter Area	The event is trig	gered when the	specified number	r of objects ha	ve entered the re	egion of inter	est.				
	Objects Leave Area	The event is trig	gered when the	specified number	r of objects ha	ve left the region	of interest.					
	Object Stops in Area	The event is trig	gered when an c	bject in a region	of interest sto	ps moving for the	e specified th	reshold time.				
	Direction Violated	The event is trig	gered when an c	bject moves in th	ne prohibited o	direction of travel						
	Tamper Detection	The event is trig	gered when the	scene unexpecte	edly changes.							

Outline Dimensions

Surface Mount Dome Camera (H4A-D)

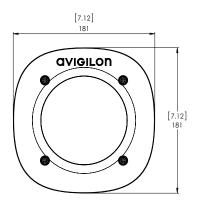


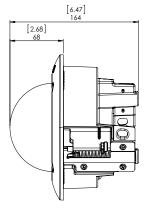


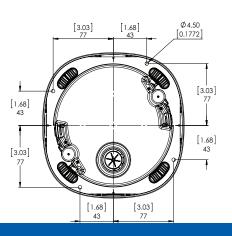


[X.X]	INCHES
X	MM

In-Ceiling Dome Camera (H4A-DC)







Ordering Information

SURFACE MOUNT INDOOR DOME CAMERAS	MP	WDR	LightCatcher 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	rith Smoked Bubble				
H4A-DD-CLER1-BL	Black Indoor Dome	e Camera Cover w	rith 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)				
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	ens.	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			r with Smoked Bubble				
H4A-DC-CLER1-BL			r with Clear Bubble				
H4-DC-CPNL1	Metal Ceiling Pane						
H4A-AC-GROM1	Camera Sealing G)				
	_						
H4-AC-WIFI1-NA	USB WI-FI Adapter						
H4-AC-WIFI1-NA H4-AC-WIFI2-EU	USB Wi-Fi Adapter USB Wi-Fi Adapter						



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.

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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)

 ${\color{blue} \mathsf{ONVIF}}\ compliant\ with\ version\ 2.2.0\ of\ the\ \mathsf{Analytics}\ \mathsf{Service}\ \mathsf{Specification}$

Vandal resistant construction and IP66 compliant

 $\label{lem:condition} \mbox{Avigilon HDSM SmartCodec technology for reduce bandwidth and storage requirements}$

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)

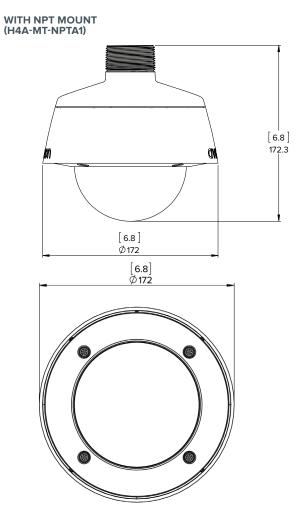
Specifications

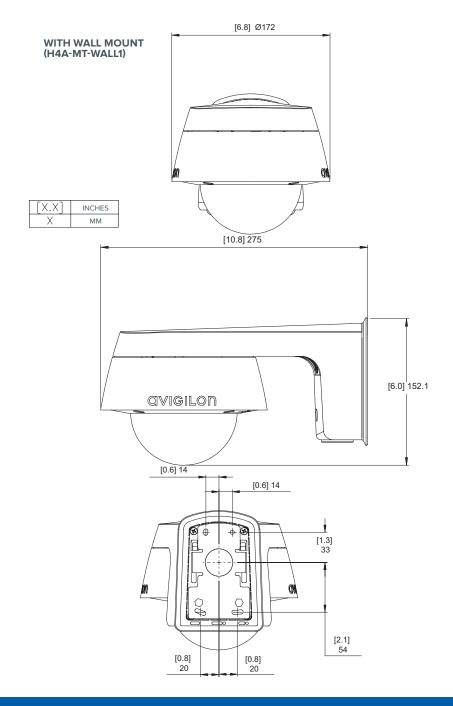
Specin	0 0, 0,	0.10	40MD 20M		2.0 MD	E O MD		AK III TOA IID (Q O MD)				
	Imago Con-	or .	1.0 MP 2.0 M		3.0 MP	5.0 MP	ossiva scan CMOS	4K ULTRA HD (8.0 MP)				
IMAGE PERFORMANCE	Image Senso		1/2.8" progressive scan Cl	VIUS	4.2	ı/ı.ʊˈˈ progre	essive scan CMOS	1/2.3" progressive scan CMOS				
FERFORMANCE	Aspect Ratio		16:9	1000	4:3	2502 15	14	16:9				
	Active Pixels		1280 x 720 1920 x 1		2048 x 1536	2592 x 194		3840 x 2160				
	Imaging Area	a (H x V)	4.8 mm x 2.7mm; 0.189" x	0.106"	5.12 mm x 3.84 mm; 0.202" x 0.151"	6.22 mm x 4 x 0.183	4.66 mm; 0.245"	5.95 mm x 3.35 mm; 0.234" x 0.132"				
	IR Illuminatio	n Option 850 nm LEDs)	30 m (98 ft) max. distance	at 0 lux		X 0.105		15 m (50 ft) max distance at 0 lux				
		3 -9 mm lens:	0.04 lux (F1.3) in color mod	de; 0.008	B lux (F1.3) in monochrome mode	N/A		N/A				
		4.3 - 8 mm lens:	N/A				1.8) in color mode;	0.29 lux (F1.8) in color mode;				
						0.0066 lux mode	(F1.8) in monochrome	0.058 lux (F1.8) in monochrome mode				
		9 - 22 mm lens:	0.08 lux (F1.6) in color mo	de; 0.016	ilux (F1.6) in monochrome mode	,	F1.6) in color mode; F1.6) 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 Ran		67 dB			83 dB		91 dB				
	Dynamic Ran	nge (WDR Enabled)	120 dB triple exposure (20	fps or le	ess); 100 dB dual exposure (30 fps)	N/A						
	Resolution S	caling	Down to 768 x 432			Down to 179	92 x 1344	Down to 3072 x 1728				
	Camera Ope	rating Mode	N/A					Full Feature or High Framerate mode (HDSM 2.0				
	3D Noise Pe	duction Filter	Yes					and analytics disabled in High Framerate mode)				
. = 1.0												
LENS		3 - 9 mm lens:	F1.3, P-Iris, remote focus a									
		4.3 - 8 mm lens:	F1.8, P-Iris, remote focus a	nd zoom	1							
		9 - 22 mm lens:	F1.6, P-Iris, remote focus a	nd zoon	1							
		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		ression Method	H.264 (MPEG-4 Part 10/A)	/C), Moti								
	Streaming		Multi-stream H.264 and M									
	Bandwidth M	lanagement	(1.0 - 3.0 MP) HDSM; (5.0	MP and 4	IK Ultra HD) HDSM 2.0; (ALL) Idle Sc	ene Mode						
	Motion Dete	ction	Pixel and classified object	s								
	Camera Tam	pering Detection	res established to the second of the second									
	Electronic Sh	nutter Control	Automatic, Manual (1/6 to	1/8000 s	sec)							
	Iris Control		Automatic, Manual									
	Day/Night Co	ontrol	Automatic, Manual									
	Flicker Contr		50 Hz, 60 Hz									
	White Balance		Automatic, Manual									
	Backlight Co		Adjustable Lin to 64 zones									
	Privacy Zone		Up to 64 zones									
		ression Method	G.711 PCM 8 kHz									
	Audio Input/0 Video Output		Line level input and output, A/V mini-jack (3.5 mm)									
	External I/O		(1.0 - 2.0 MP only) NTSC/PAL, A/V mini-jack (3.5 mm) Alarm In, Alarm Out									
	USB Port	.c.m.idib	USB 2.0									
NETWORK	Network		100BASE-TX									
NETWORK	Cabling Type	9	CAT5									
	Connector		RJ-45									
	ONVIF		ONVIF compliant with ver	sion 1.02	, 2.00, Profile S and 2.2.0 of the Ana	lytics Service	Specification					
					criptions not available with third-party							
	Security		· ·		yption, digest authentication, WS aut			x port based authentication				
	Protocol Streaming Pr	rotocols			TP, RTSP, RTCP, RTP, TCP,UDP, IGMP /RTSP/TCP, RTP/RTSP/HTTP/TCP, RT							
			SNMP v2c, SNMP v3	ası, KIP	/K131/1CF, K1F/K13F/H11F/1CP, K1	1/R13F/H111	3/1CF, 1111P					
	Jerice Walle		PENDANT DOME CAI	MED A			SUIDENCE MOUN	IT OUTDOOR DOME CAMERA				
MECHANICAL	Dimensions	(I VWVH)	dome camera only:		72 mm x 172 mm x 124 mm; (6.8" x 6	8" v 1 0"\		121 mm; (6.4" x 6.4" x 4.8")				
MECHANICAL	Dimensions	(LAVVAI I)	with wall mount (H4-MT-W	/ALL1): 2	275 mm x 172 mm x 152.1 mm (10.8" x	6.8" x 6.0")	103 11111 × 103 11111 ×	2711111, (0.4 × 0.4 × 4.0)				
	Woight		with NPT mount (H4-MT-N dome camera only:		72 mm x 172 mm x 172.3 mm (6.8" x		1 25 kg /2 97 lbs)					
	Weight		with wall mount (H4-MT-W		l.55 kg (3.42 lbs) 3.00 kg (6.62 lbs)		1.35 kg (2.97 lbs)					
			with NPT mount (H4-MT-N		J. ,							
	Dome Bubbl	e	Polycarbonate, clear									
	Body		Aluminum									
	Housing			sistant -	with wall mount (H4-MT-WALL1) / NP	Γ mount	Surface mount, vand	al resistant				
	Finish		(H4-MT-NPTA1) Powder coat, RAL 9003									
	Adjustment F	Range		– 95° wi	th -IR option), ±180° azimuth							
	Onboard Sto				lass 4; class 6 or better recommende	ed						
ELECTRICAL	Power Consu	umption	7 W (9 W for -IR option)									
	Power Source	e	VDC: 12 V +/- 10%, 7 W mi	n (9 W m	in with -IR option)	PoE: IEE	E802.3af Class 3 cor	npliant				
	D .		VAC: 24 V +/- 10%, 10 VA r									
	Power Conn		2-pin terminal block									
	RTC Backup	•	3V manganese lithium									
ENVIRONMENTAL	Operating Te	emperature	-40 °C to +60 °C (-40 °F to (8.0 MP only) -40 °C to +5	,	°E to 122°E)							
	Storage Tem	perature	-10 °C to +70 °C (14 °F to 15		1 10 122 1)							
	Humidity		0 - 95% non-condensing									

CERTIFICATIONS	Certifications/Directives	UL	cUL	CE	ROHS	WEEE	WEEE RCM		KC EAC			
	Safety	UL 60950-1		CSA 60950-1		IEC/EN 60950-	IEC/EN 60950-1		IEC 62471 (for -IR options only)			
	Environmental	UL/CSA/IEC 60	950-22	IEC 60529 IP66 Rating		IK10 Impact Rat	ting					
	Electromagnetic Emissions	FCC Part 15 Sul	opart B Class B	IC ICES-003 CI	ass B	EN 55032 Clas	EN 55032 Class B		EN 61000-3-2	EN 61000-3-3 KN 32		
	Electromagnetic Immunity	EN 55024				EN 61000-6-1	EN 61000-6-1		KN 35			
SUPPORTED												
VIDEO ANALYTICS	Objects in Area	The event is tri	he event is triggered when the selected object type moves into the region of interest.									
EVENTS	Object Loitering	The event is tri	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 tri	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 tri	iggered when the	e specified numb	er of object	ts have entered th	ne region of i	nterest.				
	Objects Leave Area	The event is tri	iggered when the	e specified numb	er of object	ts have left the re	gion of intere	st.				
	Object Stops in Area	The event is tri	iggered when an	object in a regio	n of interes	t stops moving fo	r the specifie	d threshold time.				
	Direction Violated	The event is tri	iggered when an	object moves in	the prohibi	ted direction of tr	avel.					
	Tamper Detection	The event is triggered when the scene unexpectedly changes.										

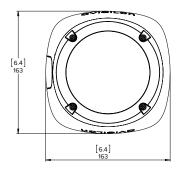
Outline Dimensions

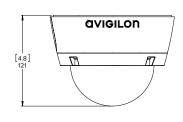
Pendant Dome Camera

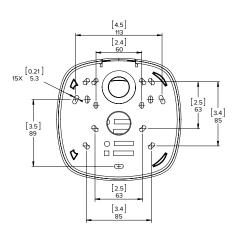




Surface Mount Outdoor Dome Camera







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	lant Wall Arm Mount					
H4A-MT-NPTA1	Indoor/Outdoor Pend	lant NPT Mount					
H4A-DP-SMOK1	Dome Camera Cover	with Smoked Bubble	e				
H4A-DP-CLER1	Dome Camera Cover	with Clear Bubble					
H4-MT-POLE1	Aluminum pole moun	iting bracket for H4 H	HD Pendant Dome Cameras a	nd H4 HD Bullet Cameras			
H4-MT-CRNR1	Aluminum corner mo	unting bracket for H4	4 HD Pendant Dome Cameras	and H4 HD Bullet Camera	S		
H4A-AC-GROM1	Camera Sealing Gron	nmet, Pack of 10					
H4-AC-WIFI2-NA / H4-AC-WIFI2-EU	USB Wifi Adapter						
CM-AC-AVIO1	3.5 mm Jack with 1.8	m Fly Wires					
CM-AC-GROM1	Pipe Grommet, Pack	of 10					

SURFACE MOUNT OUTDOOR DOME CAMERAS	MP	WDR	LightCatcher Technology	Analytics	Lens	IR	HDSM SmartCodec
1.0C-H4A-DO1	1.0	✓	✓	✓	3 - 9 mm		✓
1.0C-H4A-DO1-IR	1.0	✓	✓	✓	3 - 9 mm	✓	✓
1.0C-H4A-DO2	1.0	✓	✓	✓	9 - 22 mm		✓
2.0C-H4A-DO1	2.0	✓	✓	✓	3 - 9 mm		✓
2.0C-H4A-DO1-IR	2.0	✓	✓	✓	3 - 9 mm	✓	✓
2.0C-H4A-DO2	2.0	✓	✓	✓	9 - 22 mm		✓
3.0C-H4A-DO1	3.0	✓	✓	✓	3 - 9 mm		✓
3.0C-H4A-DO1-IR	3.0	✓	✓	✓	3 - 9 mm	✓	✓
3.0C-H4A-DO2	3.0	✓	✓	✓	9 - 22 mm		✓
5.0L-H4A-DO1	5.0		✓	✓	4.3 - 8 mm		✓
5.0L-H4A-DO1-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-D01-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					



Avigilon Self-Learning Video Analytics

Avigilon self-learning analytics extend the effectiveness of your security personnel by providing effective monitoring and enabling proactive, real-time response from your team. Built from the ground up to manage high-definition video, Avigilon offers analytics embedded in Avigilon cameras up to 5K (16 MP) resolution.

Through the use of advanced pattern-based analytics and teach-by-example technology, Avigilon video analytics are designed to increase the productivity of security personnel while making monitoring more affordable and efficient.



Advanced pattern-based analytics

Avigilon advanced video pattern detection technology is able to accurately recognize the movements of people and vehicles while ignoring motion not relevant to a scene. Embedded into cameras up to 5K (16 MP), the system's ability to constantly learn reduces false positives and helps ensure alerts are meaningful, which avoids wasted time and improves efficiencies.

Teach-by-example technology

Our teach-by-example object classifier technology enables users to provide feedback about the accuracy of alarm events generated by Avigilon devices. Rather than decreasing analytics sensitivity to reduce false alarms, the feedback trains the device, increasing the accuracy of the analytics used to determine which alarms are real and which are false to further improve a low false-positive alarm rate.

Over time, the system learns the scene and is able to prioritize important events based on user feedback. This increases sensitivity to conditions that are of concern while reducing false alarms to keep the focus on what matters.

KEY FEATURES

Pattern-based object classification and tracking technology.

Continuously self-learning analytics with no manual calibration required.

Efficient installation and setup.

Operator input teach-by-example technology.

Embedded in cameras for resolutions 1-16 MP.

Analytics appliances for any IP cameras or analog system.

Real time analytic rule-based alarm notifications.

Fully integrated with Avigilon Control Center $\!\!\!^{\scriptscriptstyle{\mathsf{M}}}$ software for an end-to-end analytics solution.

Powerful forensic video analytics accelerates forensic search times using a fully unified $ACC^{\text{\tiny{IM}}}$ client.

Cost effective. No additional servers required.

No additional licensing required for analytics and rules-based events.

Key Features and Benefits

Ease of installation and ongoing accuracy

Point-and-shoot system setup. Self-learning video analytics works out of the box with no manual calibration required.

Self-learning analytics lower false alarm rates

Analytics continuously adjust to increase detection and confidence levels.

Broad variety of devices

Avigilon devices embedded with self-learning video analytics include appliances and cameras with resolutions from 1 MP to 5K (16 MP).

Pattern-based object classification and tracking technology

Object classification and tracking using pattern-based analytics algorithms are tuned to recognize people and vehicles, while ignoring nuisance motion

Operator input teach-by-example technology

Teach-by-example technology enables users to provide feedback to the system about accuracy, which further enhances the pattern-based analytics database.

Integrated with Avigilon Control Center (ACC)

Fully integrated with ACC client and ACC mobile so that users can respond in real time even from mobile devices. Analytic alarm notifications can be automatically sent to any authorized client based on configured rules.

Analytics appliances for IP cameras or analog system

Add self-learning video analytics to IP or analog surveillance camera with Avigilon analytics appliances.

Idle scene mode

Idle scene mode reduces bandwidth and storage, and is triggered by analytics specific objects rather than motion detection.

Powerful forensics

Forensic search capabilities of analytics events accelerate search times using a fully unified ACC client.

Cost effective

No additional servers required.

No licensing required

Fully embedded edge analytics with no additional rules-based licensing on cameras.

The Avigilon Video Management Solution

Avigilon Control Center (ACC) video management software provides the ability for analytics events and alarms to be viewed and searched through an intuitive user interface. Real-time events and forensic capabilities detect and notify scene changes, missing objects and rules violations — all through an easy-to-use interface. Avigilon Control Center software gives you full control over playback of events, enabling you to quickly retrieve evidence to speed up response times and investigations.

RULES AND ALARMS

The Avigilon Control Center rules engine enables you to selectively apply analytics-based events as alarms and rule triggers, providing local or mobile users with immediate notifications for suspicious activities.

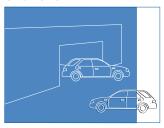
INTELLIGENT SEARCH OF CLASSIFIED OBJECTS

Avigilon Control Center software uses powerful analytics technology to intelligently search for specified events of classified objects to help you find the video you need quickly.

Avigilon Analytics Rules

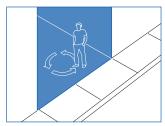
The following is a complete list of Avigilon self-learning video analytics features for object detection and classification for live or forensic events. The following images are for illustration purposes only.

OBJECTS IN AREA



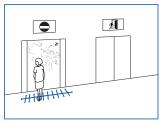
The event is triggered when the selected number of objects are present in the region of interest. The object can appear from within the region of interest or enter from outside the region of interest.

OBJECT LOITERING



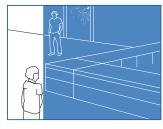
The event is triggered for each object that stays within the region of interest for an extended amount of time.

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 in the selected time period. The beam can be unidirectional or bidirectional.

OBJECT APPEARS OR ENTERS AREA



The event is triggered by each object present in the region of interest. The object can appear from within the region of interest or enter from outside the region of interest.

OBJECT NOT PRESENT IN AREA



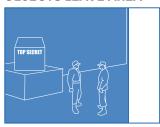
The event is triggered when no objects are present in the region of interest.

OBJECTS ENTER AREA



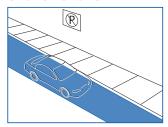
The event is triggered when the specified number of objects have entered the region of interest from outside of the region.

OBJECTS LEAVE AREA



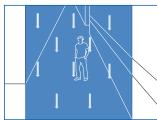
The event is triggered when the specified number of objects have left the region of interest.

OBJECT STOPS IN AREA



The event is triggered for each object in a region of interest that stops moving for the specified threshold time.

DIRECTION VIOLATED



The event is triggered for each object that moves in the prohibited direction of travel.

CAMERA TAMPERING



The event is triggered when the scene unexpectedly changes.

IDLE SCENE MODE

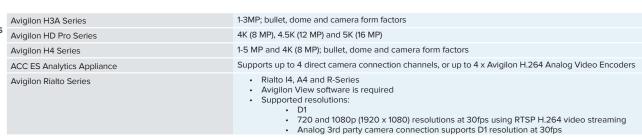


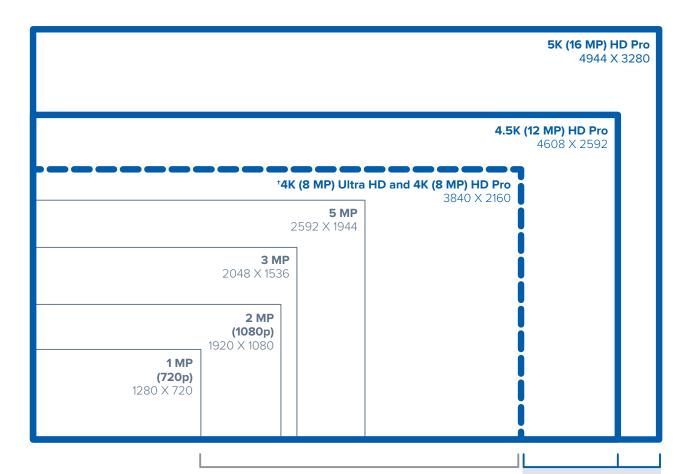
Analytic capable cameras will stream at a different image rate and reduced quality while no events are detected in the scene.

ANALYTICS SOFTWARE REQUIREMENTS & CAPABILITIES

	Setup with Avigilon Control Center software	ACC version 6.x; or ACC version 5.4 and later
&	Setup with Avigilon Rialto™ Devices for Third-Party Cameras	Avigilon View
	Real-Time Alerts and Events Configuration	Set up in ACC client
	Real-Time Alerts and Events Notification	ACC client, other multiple notifications possible based on rules engine configuration
Forensic Search Capabilities		Set up in ACC client
	Display of Video ACC Client for Forensic Searches	ACC client

SUPPORTED VIDEO ANALYTICS DEVICES





†H4 Cameras, †H4 Bullet, †H4 Dome, HD Micro Dome Cameras and HD PTZ Cameras Avigilon HD Pro Cameras 4K (8 MP), 4.5K (12 MP) and 5K (16 MP)