

H4 Multisensor Camera Line

The H4 Multisensor camera line combines Avigilon self-learning video analytics with exceptional coverage, featuring 3 or 4 individually configurable camera sensors that can be positioned to monitor virtually any area. With up to 32 MP effective resolution, the H4 Multisensor can provide the image quality needed to cover larger areas with excellent detail. Combining support for H.265 video compression along with Avigilon's HDSM SmartCodec™ technology, the H4 Multisensor camera has the ability to maintain high-image quality with less bandwidth and storage requirements.







With self-learning video analytics on board, the H4 Multisensor camera can detect and differentiate people and vehicles from regular motion, and notify operators of potentially critical events that may need further investigation. Featuring wide dynamic range, Avigilon LightCatcher™ technology and the option to add content adaptive IR to outdoor models, the H4 Multisensor camera can provide exceptional image quality in challenging lighting conditions.

	3-Sensor Model			4-5	Sensor Mod	del
Total Resolution	9 MP	15 MP	24 MP	12 MP	20 MP	32 MP
Max Coverage	180°–270°			360°		

KEY FEATURES AND BENEFITS

Self-learning video analytics on all sensors

Increased range of sensor positioning

High efficiency video encoding using H.265

Up to 32 MP total resolution

Wide Dynamic Range and LightCatcher technology on all resolutions

IP66 and IK10 rated on outdoor models

Avigilon's HDSM SmartCodec technology

Content Adaptive IR Technology up to 30m (98ft)

Interchangeable Camera Mounts

Specifications

		3.0 MP		5.0 MP	4K (8.0 MP)	
IMAGE	Image Sensor	1/2.8" progressive scan CMOS		1/2.8" progressive scan CMOS	1/2.5" progressive scan CMOS	
PERFORMANCE	Active Pixels	2048 (H) x 1536 (V)		2592 × 1944	3840 × 2160	
(per image sensor)	3 x image sensor, max resolution	6144 (H) x 1536 (V)		7776 × 1944	11520 × 2160	
	4 x image sensor, max resolution	8192 (H) x 1536 (V)		10368 × 1944	15360 × 2160	
	Aspect ratio	4:3		4:3	16:9	
	IR Illumination - Optional (high power 850 nm LEDs)	30m (98 ft) maximu	m distance at 0 lux			
	Minimum Illumination	0.0 0 lt 4mm: 0.0 0.0	25 lux (F1.2) in color mo 05 lux (F1.2) in mono mo ux with optional IR illumii 55 lux (F1.6) in color mod 10 lux (F1.6) in mono mo ux with optional IR illumi	ode nator e de	0.2 lux (F1.8) in color mode 0.04 lux (F1.8) in mono mode 0 lux with optional IR illuminator	
	Dynamic Range	100 dB, true WDR, d	dual exposure			
	3D Noise Reduction Filter	Yes		Yes	Yes	
	Image Rate-Analytics Enabled on All Sensors					
	3x Image Sensor (60 Hz/50 Hz)	24 / 25 fps		15 / 17 fps	12 / 13 fps	
	4x Image Sensor (60 Hz/50 Hz)	20 / 20 fps		13 / 13 fps	8 / 8 fps	
	Image Rate-High Framerate Mode					
	3x Image Sensor (60 Hz/50 Hz)	30 / 25 fps		20 / 20 fps	15 / 14 fps	
	4x Image Sensor (60 Hz/50 Hz)	20 / 20 fps		15 / 14 fps	10 / 10 fps	
LENS (per image sensor)	Lens and Horizontal Field of View	2.8mm f1.2 – 103° 4mm f1.6 – 72° Remote focus		2.8mm f1.2 – 103° 4mm f1.6 – 72° Remote focus	4mm f1.8 – 101° 5.2mm f1.8 – 70° Remote focus	
IMAGE CONTROL	Image Compression Method	H.264 HDSM Smart	Codec, H.265 HDSM Sn	nartCodec, Motion JPEG		
	Streaming	Multi-stream H.264,	, Multi-stream H.265, Mo	tion JPEG		
	Motion Detection	Selectable sensitivit	ty and threshold			
	Electronic Shutter Control	Automatic, Manual	(1/8 to 1/8000 sec)			
	Iris Control	Fixed				
	Day/Night Control	Automatic, Manual				
	Flicker Control	60 Hz, 50 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 and output				
	External I/O Terminals	Alarm In, Alarm Out				
NETWORK	Network	Gigabit Ethernet, 10	00BASE-TX			
	Cabling Type	CAT5E				
	Connector	RJ-45				
	API	ONVIF® compliance	e Profile S and Profile T (v	www.onvif.org)		
	Security			est authentication, WS authentication, user a	ccess log, 802.1x port based authentication	
	Protocol			RTSP, RTCP, RTP, TCP,UDP, IGMP, ICMP, DHCP		
	Streaming Protocols			P, RTP/RTSP/HTTP/TCP, RTP/RTSP/HTTPS/TC		
	Device Management Protocols	SNMP v2c, SNMP v				
PERIPHERALS	USB Port	USB 2.0				
	Onboard Storage	MicroSD/microSDH	HC/microSDXC slot – cla	ass 10/UHS-1 or better recommended		

Specifications

		IN-CEILING MOUNT	SURFACE MOUNT	PENDANT MOUNT		
MECHANICAL	Dimension Ø299 mm x 163 mm (Ø11,77" x 6.42"), below mounting surface: Ø299 mm x 76 mm (Ø11,77" x 2.99")		Ø299 mm x 115 mm (11.77" x 4.53")	With wall arm: 385 mm x 262 mm x 299 mm (15.15" x 10.30" x 11.77")		
		(811.77 × 2.99)		With NPT adapter: Ø299 mm x 248 mm (Ø11.77" x 9.76")		
	Weight	5.2 kg (11.5 lbs)	With IR: 7 kg (15.4 lbs)	With wall arm and IR: 8.4 kg (18.5 lbs)		
			Without IR: 5.8 kg (12.8 lbs)	With wall arm only: 7.3 kg (16.1 lbs)		
				With NPTA adapter and IR: 7.8 kg (17.2 lbs)		
				With NPTA adapter only: 6.7 kg (14.8 lbs)		
	Body	Aluminum, Plastic dome trim	Aluminum	Aluminum		
	Finish	Plastic, cool grey	Powder coat, cool grey	Powder coat, cool grey		
	Environmental	Not applicable	IK10 Impact Rating and IP66	Weather Rating		
	Optional IR Illuminator Ring	Not available	Optional accessory, 30m (9	98 ft) IR range		
PER SENSOR	Tilt	+7° to 96° from horizon				
	Pan	+/-120° (depending on position of image sen	isors)			
	Azimuth	+/-180°				
ELECTRICAL	Power Consumption	26 W with 24 VDC 37 VA with 24 VAC POE+	With IR: 52 W with 24 VDC 74 VA with 24 VAC POE++ or 60W POE Without IR: 26 W with 24 VDC 37 VA with 24 VAC	With IR: 52 W with 24 VDC 74 VA with 24 VAC POE++ or 60W POE Without IR: 26 W with 24 VDC 37 VA with 24 VAC		
	External Power	24 VDC ± 10%; 24 VAC rms ± 10%, 50 or 60h	POE+	POE+		
	PoE	25.5W PoE+, IEEE 802.3at Type 2 PoE Plus	With IR: 51W PoE++			
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Without IR: 25.5W PoE+, IEE	E 802.3at Type 2 PoE Plus		
ENVIRONMENTAL	Operating Termperature Range	-10 °C (14 °F) to 50 °C (122 °F)	-40 °C (-40 °F) to 60 °C (140) °F)		
	Storage Temperature	-10 °C to 70 °C (14 °F to 158 °F)				
	Humidity	0-95% non-condensing				
CERTIFICATIONS	Certifications	UL, cUL, CE, ROHS, WEEE, RCM				
CERTIFICATIONS	Safety	UL 62368-1, CSA 62368-1, IEC/EN 62368-1				
	Environmental	UL 2043 Plenum	UL/CSA/IEC 60950-22			
	Livioniientai	GE 2043 Ficham	IEC 60529 IP66 Rating, IK10 Impact Rating, IEC 60068-2-6 IEC 60068-2-27 Vibration a	and Shock		
	Electromagnetic Emissions	FCC Part 15 Subpart B Class B, IC ICES-00	3 Class B, EN 55032 Class B, EN 61000-6-3	, EN 61000-3-2, EN 61000-3-3		
	Electromagnetic Immunity	EN 55024, EN 61000-6-1				
	Directives	RoHS, Reach (SVHC), WEEE				
CURRORTER		l -				
SUPPORTED RULE BASED	Objects in Area	The event is triggered when the selected of				
VIDEO ANALYTIC EVENTS	Object Loitering	The event is triggered when the selected object type stays within the region of interest for an extended amount of time.				
(PER SENSOR)	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 e	enters the region of interest. This event can be	e 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 ansaified a	umber of chiects have left the region of inter-	a a t		

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

The event is triggered when an object moves in the prohibited direction of travel.

The event is triggered when the scene unexpectedly changes.

 $The \ event \ is \ triggered \ when \ an \ object \ in \ a \ region \ of \ interest \ stops \ moving \ for \ the \ specified \ threshold \ time.$

Objects Leave Area

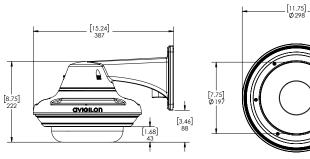
Object Stops in Area

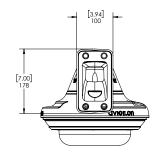
Direction Violated

Tamper Detection

Outline Dimensions

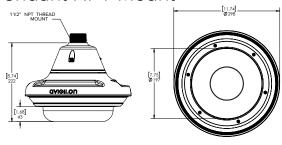
Pendant Wall Mount



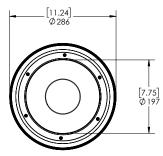


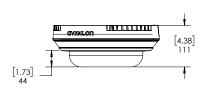
[X.X]	INCHES
Χ	MM

Pendant NPT Mount

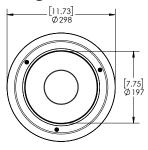


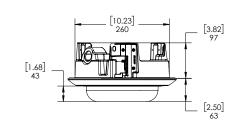
Surface Mount



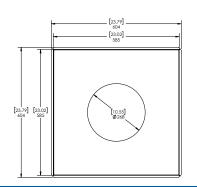


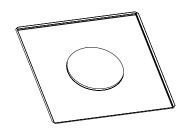
In-ceiling Mount





Metal Ceiling Panel





Ordering Information

The variety of mounting options for the H4 Multisensor provides maximum flexibility. All the available camera modules can be used in any of the mounting options.

MOUNTING SCENARIO

ORDERING INFORMATION

PENDANT WALL MOUNT



Order one of:

- Camera module
- H4AMH-AD-PEND1
- H4AMH-DO-COVR1 or H4AMH-DO-COVR1-SMOKE
 - IRPTZ-MNT-WALL1
- Optional, H4AMH-AD-IRIL

PENDANT NPT MOUNT



Order one of:

- Camera module
- H4AMH-AD-PEND1
- H4AMH-DO-COVR1 or H4AMH-DO-COVR1-SMOKE IRPTZ-MNT-NPTA1
- Optional, H4AMH-AD-IRIL1

SURFACE MOUNT



Order one of:

- Camera module
- H4AMH-AD-DOME1
- H4AMH-DO-COVR1 or H4AMH-DO-COVR1-SMOKE
- Optional, H4AMH-AD-IRIL1

IN-CEILING MOUNT



Order one of:

- Camera module
- H4AMH-AD-CEIL1
- H4AMH-DC-COVR1 or H4AMH-DC-COVR1-SMOKE
- Optional, H4AMH-DC-CPNL1 if ceiling panel needed

Camera Modules

With the modular design of the H4 Multisensor, any camera module can be paired with any mounting adapter for $\frac{1}{2}$ maximum versatility and optimal installation. Each camera module must be ordered with a matching mounting adapter and dome cover.

DISPLAY PART NUMBER DESCRIPTION

9C-H4A-3MH-270	3×3 MP, WDR, LightCatcher, 2.8mm, Camera Only
9C-H4A-3MH-180	3×3 MP, WDR, LightCatcher, 4mm, Camera Only
15C-H4A-3MH-270	3×5 MP, WDR, LightCatcher, 2.8mm, Camera Only
15C-H4A-3MH-180	3×5 MP, WDR, LightCatcher, 4mm, Camera Only
24C-H4A-3MH-270	3×4K (8 MP), WDR, LightCatcher, 4mm, Camera Only
24C-H4A-3MH-180	3×4K (8 MP), WDR, LightCatcher, 5.2mm, Camera Only
12C-H4A-4MH-360	4×3 MP, WDR, LightCatcher, 2.8mm, Camera Only
20C-H4A-4MH-360	4×5 MP, WDR, LightCatcher, 2.8mm, Camera Only
32C-H4A-4MH-360	4×4K (8 MP), WDR, LightCatcher, 4mm, Camera Only

Mounting Adapters and Dome Covers

The H4 Multisensor modular design provides pendant, surface, or in ceiling mounting adapters and a choice of two dome covers compatible with all the H4 Multisensor camera modules.

DISPLAY PART NUMBER	DESCRIPTION
H4AMH-AD-DOME1	Outdoor surface mount adapter, must order either a H4AMH-DO-COVR1 or H4AMH-DO-COVR1-SMOKE.
H4AMH-AD-PEND1	Outdoor pendant mount adapter, must order one of IRPTZ-MNT-WALL1 or IRPTZ-MNT-NPTA1 and one of H4AMH-DO-COVR1 or H4AMH-DO-COVR1-SMOKE.
IRPTZ-MNT-WALL1	Pendant wall arm adapter, for use with H4AMH-AD-PEND1 or H4 IRPTZ.
IRPTZ-MNT-NPTA1	Pendant NPT adapter for use with H4AMH-AD-PEND1 or H4 IRPTZ.
H4-MT-POLE1	Aluminum pole mounting bracket for H4 pendant style cameras or H4 HD bullet cameras.
H4-MT-CRNR1	Aluminum corner mounting bracket for H4 pendant style cameras or H4 HD bullet cameras.
H4AMH-AD-CEIL1	In-ceiling adapter, must order either a H4AMH-DC-COVR1 or H4AMH-DC-COVR1-SMOKE.
H4AMH-DO-COVR1	Dome bubble and cover, for outdoor surface mount or pendant mount, clear.
H4AMH-DO-COVR1-SMOKE	Dome bubble and cover, for outdoor surface mount or pendant mount, smoked. Not recommended for lowlight applications.
H4AMH-DC-COVR1	Dome bubble and cover, for in-ceiling mount, clear.
H4AMH-DC-COVR1-SMOKE	Dome bubble and cover, for in-ceiling mount, smoked. Not recommended for lowlight applications.
H4AMH-DC-CPNL1	Metal ceiling panel.

Optional IR Illuminator

The optional IR Illuminator is available for the H4 Multisensor when mounted in a pendant or surface mount adapter.

DISPLAY PART NUMBER		DESCRIPTION		
	H4AMH-AD-IRIL1	Optional IR illuminator ring, up to 30m (100ft), for use with H4AMH-DO-COVR1.		

Optional Injectors and Switches

DISPLAY PART NUMBER

ES-PS-S4	Managed switch, 5 port, Outdoor IP66, -40°C (-40°F) to 50°C (122°C), Gigabit Ethernet, AC power input. 1x SFP uplink and 4 port RJ45. Maximum PoE power allocation: Up to 4 ports of PoE+ each, or 2 ports of 60W PoE each. In 60W PoE mode, compatible with H4 PTZ, H4 IR PTZ and H4 Multisensor.
ES-PS-MNT-POLE1	Pole mount bracket for ES-PS-S4 switch.
POE-INJ2-60W-NA	Indoor single port Gigabit PoE++ 60W, North American power cord included. May also be used in European Union, Japan, Australia, New Zealand, Mexico, China, South Korea, Russia, Argentina, Saudi Arabia, Kuwait, UAE and Brazil. Temperature range of the PoE injector is -10 °C to +45 °C (14 °F to 113 °F). When used with the H4 IR PTZ, the camera will operate in a reduced temperature range from -10 °C to +50 °C (14 °F to 122 °F).
POE-INJ2-PLUS	Indoor single port POE+ injector. Injector operational temperature range -20°C to $+40$ °C (-4°F to 104 °F).