H4 MULTISENSOR CAMERA LINE



12 MP

15 MP

20 MP

24 MP

32 MP

Provides exceptional scene coverage and high image detail with 3 or 4 individually configurable camera sensors that can be positioned to monitor virtually any area. Delivers broad scene coverage with high image detail up to 32 MP total resolution and uses H.265 compression technology to significantly reduce 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.







FEATURES



SELF-LEARNING VIDEO ANALYTICS

Exceptional efficiency when monitoring and reviewing video with excellent coverage from a single camera.



LIGHTCATCHER™ TECHNOLOGY

Offers excellent image detail in low-light settings.



ONVIF® COMPLIANT

Native ONVIF® Profile S, T and G compliance allows easy integration with existing ONVIF infrastructures.



MRDH AMK

H.265 & HDSM SMARTCODEC™ TECHNOLOGY

Combines compression technologies to maximize bandwidth and storage.



CONTENT ADAPTIVE IR

Adjusts IR beam width and illumination settings based on scene conditions to help maximize image quality.



WIDE DYNAMIC RANGE

Captures details in scenes with both very bright and very dark areas.

ONVIF is a trademark of Onvif, Inc.





SPECIFICATIONS

IMAGE PERFORMANCE	3.0 MP	5.0 MP	4K (8.0 MP)
Image Sensor	1/2.8" progressive scan CMC	OS	1/2.5" progressive scan CMOS
Active Pixels	2048 (H) x 1536 (V)	2592 x 1944	3840 x 2160
3 x Image Sensor, Max Resolution (per image sensor)	6144 (H) x 1536 (V)	7776 x 1944	11520 x 2160
4 x Image Sensor, Max Resolution (per image sensor)	8192 (H) x 1536 (V)	10368 x 1944	15360 x 2160
Aspect Ratio	4:3	4:3	16:9
R Illumination - Optional high power 850 nm LEDs)	30 m (98 ft) maximum distanc	30 m (98 ft) maximum distance at 0 lux when camera is mounted at 4 m (13 ft) off the ground	
Minimum Illumination	0.005 lux (l 0 lux with 4 mm: 0.05 lux (F 0.010 lux (l	F1.2) in color mode F1.2) in mono mode optional IR illuminator I.6) in color mode F1.6) in mono mode optional IR illuminator	0.02 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, dual expo	sure	
3D Noise Reduction Filter	Yes		
Image Rate-Analytics Enabled on All Sensors:			
3 x Image Sensor (60 Hz, 50 Hz)	24 / 25 fps	15 / 17 fps	12 / 13 fps
1 x Image Sensor (60 Hz, 50 Hz)	20 / 20 fps	13 / 13 fps	8 / 8 fps
mage Rate-High Framerate Mode:		,	
3 x Image Sensor (60 Hz, 50 Hz)	30 / 25 fps	20 / 20 fps	15 / 14 fps
4 x Image Sensor (60 Hz, 50 Hz)	20 / 20 fps	15 / 14 fps	10 / 10 fps
IMAGE CONTROL			
Image Compression Method	H.264 HDSM SmartCodec, H	.265 HDSM SmartCodec, Motion JPEG	
Streaming	Multi-stream H.264, Multi-st	Multi-stream H.264, Multi-stream H.265, Motion JPEG	
Motion Detection	Selectable sensitivity and threshold		
Electronic Shutter Control	Automatic, Manual (1/8 to 1/	Automatic, Manual (1/8 to 1/8000 sec)	
ris Control	Fixed		
Day/Night Control	Automatic, Manual	Automatic, Manual	
Flicker Control	60 Hz, 50 Hz		
White Balance	Automatic, Manual	Automatic, Manual	
Backlight Compensation	Adjustable		
Privacy Zones	Up to 64 zones	Up to 64 zones	
Audio Compression Method	G.711 PCM 8 kHz		
Audio Input/Output	Line level input and output	Line level input and output	
External I/O Terminals	Alarm In, Alarm Out		
LENS (PER IMAGE SENSOR)	3.0 MP	5.0 MP	4K (8.0 MP)
Lens and Horizontal Field of View	2.8 mm F1.2 - 103 ° 4 mm F1.6 - 72 ° Remote Focus	2.8 mm F1.2 - 103 ° 4 mm F1.6 - 72 ° Remote Focus	4 mm F1.8 - 101 ° 5.2 mm F1.8 - 70 ° Remote Focus

Gigabit Ethernet, 100BASE-TX, 1000B	Gigabit Ethernet, 100BASE-TX, 1000BASE-TX	
CAT5E		
RJ-45		
ONVIF® compliance Profile S, T, and	G (www.onvif.org)	
authentication, FIPS 140-2 L1 (with op	otional camera license)	-
IPv4, IPv6, HTTP, HTTPS, SOAP, DNS	, NTP, RTSP, RTCP, RTP, TCP, UDP, IGMPv2	, ICMP, DHCP, Zeroconf, ARP, HSTS
RTP/UDP, RTP/UDP multicast, RTP/RT	TSP/TCP, RTP/RTSP/HTTP/TCP, RTP/RTSP/H	HTTPS/TCP, HTTP
SNMP v2c, SNMP v3		
USB 2.0		
MicroSD/microSDHC/microSDXC slot	t - video speed class card required. Class V	10 or better recommended.
IN_CELLING	SURFACE MOUNT	PENDANT MOUNT
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 60 W PoE* Without IR: 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 60 W PoE* Without IR: 26 W with 24 VDC 37 VA with 24 VAC PoE+
24 VDC ± 10 %; 24 VAC rms ± 10 %, 50	24 VDC ± 10 %; 24 VAC rms ± 10 %, 50 or 60 Hz	
25.5 W PoE+, IEEE 802.3at Type 2 PoE Plus	MELL LID OF FIME FLIFF COOK TO BE FOL	
IN-CEILING	SURFACE MOUNT	PENDANT MOUNT
299 mm x 163 mm (11.77" x 6.42"), below mounting surface: 299 mm x 76 mm (11.77" x 2.99")	299 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") With NPT adapter: 299 mm x 248 mm (11.77" x 9.76")
5.2 kg (11.5 lbs)	With IR: 7 kg (15.4 lbs) Without IR: 5.8 kg (12.8 kg)	With wall arm and IR: 8.4 kg (18.5 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)
Aluminum, Plastic dome trim	Aluminum	Aluminum
Plastic, Injection Molded, Close to RAL9002	Cast, Powder Coated, Close to RAL9002	Cast, Powder Coated, Close to RAL9002
Not applicable	IK10 Impact Rating and IP66 Weather Rat	ing
Not available	Optional accessory, 30 m (98 ft) IR range	
IN CELLING	CUDEACE MOUNT	PENDANT MOUNT
IN-CEILING	SURFACE MOUNT	TENDANT MOUNT
10 °C to 150 °C /14 °E to 122 °C	I -40 °C to +60 °C (-40 °F to 140 °F)	
-10 °C to +50 °C (14 °F to 122 °F)	-40 °C to +60 °C (-40 °F to 140 °F)	
-10 °C to +50 °C (14 °F to 122 °F) -10 °C to +70 °C (14 °F to 158 °F)	-40 °C to +60 °C (-40 °F to 140 °F)	
	CAT5E RJ-45 ONVIF® compliance Profile S, T, and Password protection, HTTPS encrypt authentication, FIPS 140-2 L1 (with operation) IPv4, IPv6, HTTP, HTTPS, SOAP, DNS RTP/UDP, RTP/UDP multicast, RTP/R SNMP v2c, SNMP v3 USB 2.0 MicroSD/microSDHC/microSDXC slo IN-CEILING 26 W with 24 VDC 37 VA with 24 VAC PoE+ 24 VDC ± 10 %; 24 VAC rms ± 10 %, 50 25.5 W PoE+, IEEE 802.3at Type 2 PoE Plus IN-CEILING 299 mm x 163 mm (11.77" x 6.42"), below mounting surface: 299 mm x 76 mm (11.77" x 2.99") 5.2 kg (11.5 lbs) Aluminum, Plastic dome trim Plastic, Injection Molded, Close to RAL9002 Not applicable Not available	CATSE RJ-45 ONVIF® compliance Profile S, T, and G (www.onvif.org) Password protection, HTTPS encryption, digest authentication, WS authenticatio authentication, FIPS 140-2 L1 (with optional camera license) IPv4, IPv6, HTTP, HTTPS, SOAP, DNS, NTP, RTSP, RTCP, RTP, TCP, UDP, IGMPv2 RTP/UDP, RTP/UDP multicast, RTP/RTSP/TCP, RTP/RTSP/HTTP/TCP, RTP/RTSP/F SNMP v2c, SNMP v3 USB 2.0 MicroSD/microSDHC/microSDXC slot - video speed class card required. Class V IN-CEILING SURFACE MOUNT With IR: 52 W with 24 VDC 74 VA with 24 VAC PoE+ v Go W PoE* Without IR: 26 W with 24 VDC 37 VA with 24 VAC PoE+ v Go W PoE* Without IR: 26 W with 24 VAC PoE+ PoE Plus With IR: High Power 51 W PoE++* Without IR: 25.5 W PoE+, IEEE, 802.3at T IN-CEILING SURFACE MOUNT 299 mm x 163 mm (11.77* x 6.42"), below mounting surface: 299 mm x 76 mm (11.77* x 2.99") 5.2 kg (11.5 lbs) With IR: 7 kg (15.4 lbs) Without IR: 5.8 kg (12.8 kg) Aluminum, Plastic dome trim Plastic, Injection Molded, Close to RAL9002 Not applicable IK10 Impact Rating and IP66 Weather Rat Not available Optional accessory, 30 m (98 ft) IR range

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PER SENSOR	
Tilt	+7° to 96° from horizon
Pan	+/-120° (depending on position of image sensors)
Azimuth	+/-180°

^{*}High power PoE may not be compatible with all switches or injectors. High power PoE is compatible with Cisco® UPoE, up to 60 W over 4 pairs, or with the high PoE products listed in the **Accessories** section. Contact Avigilon sales or Avigilon technical support for more information.

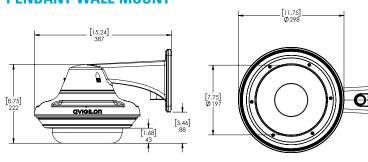
sales@avigilon.com | avigilon.com

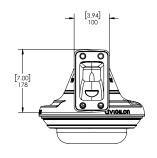
CERTIFICATIONS	IN-CEILING	SURFACE MOUNT	PENDANT MOUNT
Certifications/Directives	UL, cUL, CE, ROHS, WEEE, RCM, EAC, BIS, KC, UKCA, NOM		
Safety	UL 62368-1, CSA 62368-1, IEC/EN 62368-1		
Environmental	UL 2043 Plenum	UL/CSA/IEC 60950-22 IEC 60529 IP66 Rating IK10 Impact Rating IEC 60068 2-6 IEC 60068 2-27 Vibration and Shock	
Electromagnetic Emissions	FCC Part 15 Subpart B Class B, IC ICES-003 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, EN 50121-4 (when used with CM-AC-FERR1 on aux power)		
Directives	RoHS, Reach (SVHC), WEEE		

SUPPORTED RULE BASED VIDEO ANALYTIC EVENTS		
Objects in Area	The event is triggered when the selected object type moves into the region of interest.	
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

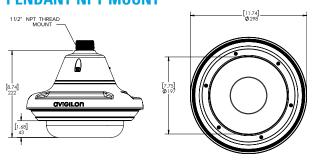
PENDANT WALL MOUNT



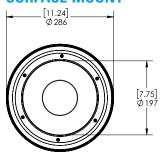


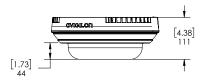
[X.X] INCHES X MM

PENDANT NPT MOUNT

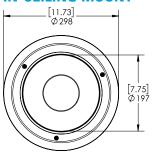


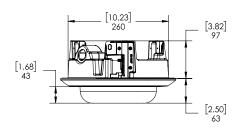
SURFACE MOUNT



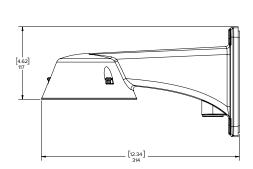


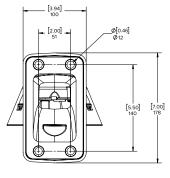
IN-CEILING MOUNT

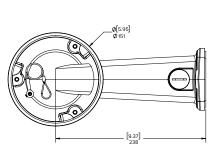




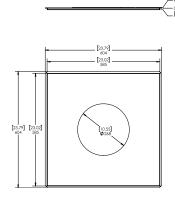
WALL MOUNT

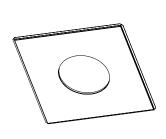






METAL CEILING PANEL





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	avidiLon	Order one of: Camera module H4AMH-AD-PEND1 H4AMH-DO-COVR1 or H4AMH-DO-COVR1-SMOKE IRPTZ-MNT-WALL1 Optional, H4AMH-AD-IRIL1
PENDANT NPT MOUNT	avigiLon	Order one of: Camera module H4AMH-AD-PEND1 H4AMH-D0-COVR1 or H4AMH-D0-COVR1-SMOKE IRPTZ-MNT-NPTA1 Optional, H4AMH-AD-IRIL1
SURFACE MOUNT	avigiLon	Camera module H4AMH-AD-DOME1 H4AMH-DO-COVR1 or H4AMH-DO-COVR1-SMOKE Optional, H4AMH-AD-IRIL1
IN-CEILING MOUNT	avigiLan	Order one of: Camera module H4AMH-AD-CEIL1 H4AMH-DC-COVR1 or H4AMH-DC-COVR1-SMOKE Optional, H4AMH-DC-CPNL1 if ceiling panel is needed

CAMERA MODULES

With the modular design of the H4 Multisensor, any camera module can be paired with any mounting adapter for 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	3x3 MP, WDR, LightCatcher, 2.8 mm, Camera Only
9C-H4A-3MH-180	3x3 MP, WDR, LightCatcher, 4 mm, Camera Only
15C-H4A-3MH-270	3x5 MP, WDR, LightCatcher, 2.8 mm, Camera Only
15C-H4A-3MH-180	3x5 MP, WDR, LightCatcher, 4 mm, Camera Only
24C-H4A-3MH-270	3x4K (8 MP), WDR, LightCatcher, 4 mm, Camera Only
24C-H4A-3MH-180	3x4K (8 MP), WDR, LightCatcher, 5.2 mm, Camera Only
12C-H4A-4MH-360	4x3 MP, WDR, LightCatcher, 2.8 mm, Camera Only
20C-H4A-4MH-360	4x5 MP, WDR, LightCatcher, 2.8 mm, Camera Only
32C-H4A-4MH-360	4x4K (8 MP), WDR, LightCatcher, 4 mm, 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-D0ME1	Outdoor surface mount adapter, must order either a H4AMH-D0-C0VR1 or H4AMH-D0C0VR1- SM0KE.
H4AMH-AD-PEND1	Outdoor pendant mount adapter, must order one of IRPTZ-MNT-WALL1 or IRPTZ-MNTNPTA1 and one of H4AMH-D0-C0VR1 or H4AMH-D0-C0VR1-SM0KE.
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.
PLMT-1001	Aluminum pole mounting bracket, compatible with IRPTZ-MNT-WALL1.
CRNMT-1001	Aluminum corner mounting bracket, compatible with IRPTZ-MNT-WALL1.
H4AMH-AD-CEIL1	In-ceiling adapter, must order either a H4AMH-DC-COVR1 or H4AMH-DC-COVR1-SMOKE.
H4AMH-D0-C0VR1	Dome bubble and cover, for outdoor surface mount or pendant mount, clear.
H4AMH-D0-C0VR1-SM0KE	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 30 m (100 ft), for use with H4AMH-D0-COVR1.

OPTIONAL INJECTORS AND SWITCHES

DISPLAY PART NUMBER	DESCRIPTION
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 60 W PoE each. In 60 W PoE mode, compatible with H4 PTZ, H4 IR PTZ and H4 Multisensor.
ES-PS-MNT-POLE	Pole mount bracket for ES-PS-S4 switch.
POE-INJ2-60W-NA	Indoor single port Gigabit PoE++ 60 W, 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).
POE-INJ2-PLUS	Indoor single port POE+ injector. Injector operational temperature range -20 °C to +40 °C (-4 °F to 104 °F).

OPTIONAL CAMERA LICENSES AND ACCESSORIES

DISPLAY PART NUMBER	DESCRIPTION
CM-AC-FERR1	Ferrite clamp for use with aux power cable when meeting EN 50121-4 requirements. Pack of 5.
CAM-FIPS	Camera license to enable FIPS Level 1 cryptographic mode on the H4 Multisensor or any H5A camera

SUPPORT

Learn more and find additional documentation at avigilon.com or email sales@avigilon.com for specific product support.





Jun 2023 | Rev 16

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