

Avigilon H4 Multisensor Camera with Self-Learning Video Analytics

Preliminary Specifications – Subject to Change



	3.0 MP	5.0 MP	4K (8.0 MP)
Active Pixels, Per Image Sensor	2048 x 1536	2592 x 1944	3840 x 2160
3x Image Sensor, max resolution	6144 x 1536	7776 x 1944	11520 x 2160
4x Image Sensor, max resolution	8192 x 1536	10368 x 1944	15360 x 2160
Wide Dynamic Range	True WDR, dual exposure		
Maximum Image Rate			
3x Image Sensor (60 Hz/ 50 Hz)	30 fps / 25 fps	24 fps / 25 fps	17 fps / 17 fps
4x Image Sensor (60 Hz/ 50 Hz)	30 fps / 25 fps	20 fps / 20 fps	13 fps / 13 fps
Lens and Horizontal Field of View (per image sensor)	2.8mm – 99° 4mm – 72° Remote focus	2.8mm – 99° 4mm – 72° Remote focus	4mm – 92° 5.2mm – 70° Remote focus
Image Compression Method	H.264 HDSM SmartCodec, H.265 HDSM SmartCodec, Motion JPEG		
Day/Night Control	Automatic, Manual		
Flicker Control	60 Hz, 50 Hz		
White Balance	Automatic, Manual		
Backlight Compensation	Adjustable		
Privacy Zones	Yes		
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	1000BASE-TX		
Cabling Type	CAT5E		
Connector	RJ45		
API	ONVIF Profile S		
Supported Video Analytics Events	On all four heads: Objects in Area, Object Loitering, Objects Crossing Beam, Objects Appears or Enters Area, Object Not Present in Area, Objects Enter Area, Objects Leave Area, Objects Stops in Area, Direction Violated, Tamper Detection		

Housing	In-Ceiling Mount	Surface Mount	Pendant Mount
Dimension	Ø301mm x 164mm (Ø11.85" x 6.46"), below mounting surface: Ø301mm x 67mm (Ø11.85" x 2.64")	Ø298mm x 115mm (11.73" x 4.53")	With wall arm: 385mm x 262mm x 298mm (15.15" x 10.30" x 11.73") With NPT adapter: Ø298mm x 248mm (Ø11.73" x 9.76")
Body	Aluminum	Aluminum	Aluminum
Finish	Plastic, cool grey	Powder coat, cool grey	Powder coat, cool grey
Environmental		IK10 Impact Rating and IP66 Weather Rating	
Operating Temperature Range	-30°C (-22°F) to 60°C (140°F)	-40°C (-40°F) to 60°C (140°F)	
Per sensor			
Tilt	+7° to 96° from horizon		
Pan	+/-120° (depending on position of image sensors)		
Azimuth	+/-180°		
Onboard Storage	Micro SD		
Power Source			
Power Consumption	To Be Determined		
External Power	24 VDC ± 10%; 24 VAC rms ± 10%, 50 or 60Hz		
PoE	51W PoE++, required when using the optional IR illuminator ring. 25.5W PoE+, IEEE 802.3at Type 2 PoE Plus, for in-ceiling mount or when the optional IR illuminator is not in use.		
Optional IR Illuminator Ring	Not available	Optional accessory, 30m (100 ft) IR range	

Ordering Information

H4 Multisensor Camera Modules

The H4 Multisensor supports a modular design where the camera module can be paired with different mounting adapters for optimal installation and maximum versatility. The camera modules listed below must be ordered with a matching mounting adapter and dome cover.

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

Mounting Adapters and Dome Covers

The H4 Multisensor supports flexible mounting options and can be mounted as a pendant, surface mount or in-ceiling.

Display Part Number	Description
H4AMH-AD-DOME1	Outdoor surface mount adapter, must order either a H4AMH-DO-COVR1 or H4AMH-DO-COVR1-SMOKE.

Display Part Number	Description
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.
H4MH-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.

Optional IR Illuminator

The optional IR illuminator may be used when the H4 Multisensor is mounted in a pedant or surface mount configuration.

Display Part Number	Description
H4AMH-AD-IRIL1	Optional IR illuminator ring, up to 30m (100ft), for use with H4AMH-DO-COVR1.