

The ultimate deployment flexibility is in the palm of your hands with the **Avigilon H6X camera** line. To help ensure you can easily meet certain privacy and/or cybersecurity requirements, the **H6X** has been designed without a built-in microphone nor wireless technology for compliance. With the **H6X box** form factor, you can choose the lens that best fits your coverage needs, from short range to long range. Enclose the camera in a weatherproof housing 1 to take on the outdoors with confidence and stay effortlessly aware with onboard AdaptAI video analytics.



AdaptAl Video Analytics

Be a step ahead of incidents with the camera's ability to flag unusual crowds or a person crawling along your perimeters. Classify more objects such as a van, pick-up truck or large truck with analytics event support.



Dynamic Privacy Masking

Easily meet privacy requirements with the ability to track and blur people and vehicles appearing on video, with the flexibility for authorized personnel to lift it during investigations.



Outdoor Protection

Deploy the H6X Box in a weatherproof housing (sold separately) that can withstand environmental elements, so you can take on the outdoors with ease.



Automatic IR Cut Filter

Never miss a moment in low-light conditions with the H6X Box's automatic IR cut filter for optimal imaging day and night.



Secure & Compliant

Trust that your data is well-protected with advanced cybersecurity features such as an onboard FIPS 140-2 level 3 compliant TPM and Secure Boot.



ONVIF® Conformant

Easily integrate with existing ONVIF infrastructures via Profile S and T. Search, playback and retrieve edge recordings with Profile G. Enable cross-functionality with third-party analytics using Profile M.





¹ Lens and housing sold separately.

Specifications

Image Performance		2.0 MP	0 MP 4.0 MP 6.0 MP 8.0 MP				
Image Sensor		1/2.8" progressive scan CMOS	1/1.8" progressive scan CMOS				
Imaging Area (H x V)		5.57 mm x 3.13 mm; 0.219" x 0.123"	7.8 mm x 4.41 mm; 0.307" x 0.174"	6.66 mm x 3.74 mm; 0.262" x 0.147"	7.68 mm x 4.32 mm; 0.302" x 0.170"		
Aspect Ratio		(16:9)	(16:9) (4:3)	(16:9) (4:3)	(16:9) (4:3)		
	WDR Off	Up to 83 dB					
Dynamic Range	WDR On	130 dB (dual exposure, 30 fps) 150 dB (triple exposure, 20 fps or less)	120 dB (dual exposure, 30 fps) 144 dB (triple exposure, 20 fps or less)	144 dB (triple exposure, 20 fps or less)			
Max Framerate	·	(50 Hz/60 Hz): 50 fps/60 fps in High Framerate Mode (50 Hz/60 Hz): 25 fps/30 fps		(50 Hz/60 Hz): 25 fps/30 fps			
	Primary	1920 x 1080	(16:9) 2688 x 1520; 2560 x 1440; 1920 x 1080 (4:3) 1984 x 1488	(16:9) 3328 x 1872; 3200 x 1800; 2688 x 1520; 2560 x 1440; 1920 x 1080 (4.3) 2880 x 2160; 2304 x 1728; 2048 x 1536	(16:9) 3840 x 2160; 3328 x 1872; 3200 x 1800; 3072 x 1728; (4.3) 2880 x 2160; 2560 x 1920;		
Streaming Resolutions	Secondary	1280 x 720; 768 x 432; 640 x 360; 512 x 288;	(16:9) 1920 x 1080; 1280 x 720; 768 x 432; 640 x 360; 512 x 288; (4:3) 1920 x 1440; 1600 x 1200; 1280 x 960; 768 x 576; 640 x 480; 512 x 384; 384 x 288;	(16:9) 1920 x 1080; 1280 x 720; 768 x 432; 640 x 360; 512 x 288; (4:3) 1920 x 1440; 1600 x 1200; 1280 x 960; 768 x 576; 640 x 480; 512 x 384; 384 x 288;	(16:9) 2560 x 1440; 1920 x 1080; 1280 x 720; 768 x 432; 640 x 360; 512 x 288; (4:3) 2560 x 1920; 2304 x 1728; 1920 x 1440; 1600 x 1200; 1280 x 960; 768 x 576; 640 x 480; 512 x 384;		
	Tertiary	1280 x 720; 768 x 432; 640 x 360; 512 x 288; 384 x 216;	(16:9) 1280 x 720; 768 x 432; 640 x 360; 512 x 288; 384 x 216; (4:3) 1280 x 960; 800 x 600; 640 x 480; 512 x 384; 368 x 264;	(16:9) 1280 x 720; 768 x 432; 640 x 360; 512 x 288; 384 x 216; (4:3) 1280 x 960; 768 x 576; 640 x 480; 512 x 384; 384 x 288; 368 x 264;	(16:9) 1920 x 1080; 1280 x 720; 768 x 432; 640 x 360; 512 x 288; 384 x 216 (4:3) 1920 x 1440; 1600 x 1200; 1280 x 960; 800 x 600; 640 x 480; 512 x 384; 384 x 288; 368 x 264;		
Bandwidth Mar	nagement	HDSM SmartCodec technology; Idle scene mode					
3D Noise Redu	ıction Filter	Yes					
Lens							
LUIIS	2 MP	0.01 lux in color mode, 0.003 lux in monochrome mod	de at f/1.4				
Minimum	4 MP	0.008 lux in color mode, 0.003 lux in monochrome mode at f/1.3					
Illumination	6 MP	0.02 lux in color mode, 0.006 lux in monochrome mode at f/1.3					
	8 MP	0.02 lux in color mode, 0.006 lux in monochrome mod	de at f/1.3				
Lens Mount iCS/CS Threa		iCS/CS Thread Mount	S Thread Mount				
Control		P-Iris, remote back focus, autofocus and IR cut filter iCS lens: Remote zoom, focus and iris control, IR cut filter					
Image Contr	ol						
Image Compression Method		H.264 HDSM SmartCodec, H.265 HDSM SmartCodec, Motion JPEG					
Streaming		Multi-stream H.264, Multi-stream H.265, Motion JPEG					
Electronic Shutter Control		Automatic, Manual (1/7.5 to 1/15000 sec)					
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Image Control	
Day/Night Control	Automatic, Manual, External
Flicker Control	60 Hz, 50 Hz
Iris Control	iCS or P-iris: Automatic, Open, Closed DC-iris: Open, Closed
White Balance	Automatic, Manual
Backlight Compensation	Adjustable
Image Rotation	0°, 90°, 180°, 270° including Corridor Mode
Privacy Zones	Up to 64 zones
Motion Detection	Pixel motion: Selectable sensitivity and threshold. Classified object detection
Tamper Detection	Yes
Network	
Network	1000BASE-T, RJ45 Connector, CAT5e Cabling
ONVIF	ONVIF® compliance Profile S, Profile T, Profile M and Profile G (www.onvif.org)
Security	Password protection, HTTPS encryption, digest authentication, WS authentication, user access log, 802.1x port based authentication, FIPS 140-2 L1 (with optional camera license), onboard FIPS 140-2 L3 certified TPM, Secure Boot
Protocols	IPv6, IPv4, HTTP, HTTPS, SOAP, DNS, NTP, RTSP, RTCP, RTP, TCP, UDP, IGMPv3, ICMP, DHCP, Zeroconf, ARP, HSTS
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
Peripherals	
USB Port	USB 2.0
Onboard Storage	Two microSD/microSDHC/microSDXC slots - video speed class card required. Class V10 or better recommended.
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Auxiliary I/O	
Audio Compression Method	G.711 PCM 8 kHz, Opus
Audio Input/Output	Line level input and output
External I/O Terminals	1 x Relay In, 1 x Relay Out, 1 x 12 VDC out at 50 mA, RS-485
RS-485 Terminal	Yes
Mechanical	
Dimensions (LxWxH)	122 mm x 75 mm x 63 mm; 4.8" x 3.0" x 2.5"
Weight	0.55 kg (1.2 lbs)
Body	Aluminum, Plastic
Camera Mount	1/4"-20 UNC (top and bottom)
Finish	Cast, powder coated, black
Electrical	
Power Consumption	13 W max
Power Source	PoE: IEEE802.3af Class 3 compliant
External Power	VDC: 12-24 VDC ± 10%
RTC Backup Battery	3V manganese lithium
Memory	4 GB RAM,4 GB Flash
	

Seamless failover between PoE and Aux and back without interrupt in camera operation

Redundant Power

Environmental	
Operating Temperature	-10 °C to +65 °C (14 °F to 149 °F)
Storage Temperature	-10 °C to +70 °C (14 °F to 158 °F)
Humidity	0 - 95% non-condensing
Certifications	
Certifications/Approvals	UL, cUL, CE, UKCA, ROHS, RCM, KC, BIS, NOM
Safety Standards	UL 62368-1, CSA 62368-1, IEC/EN 62368-1
Electromagnetic Emissions Standards	FCC Part 15 Subpart B Class B, ICES-003 Class B, EN 55032 Class B, EN 61000-6-3, EN 61000-3-2, EN 61000-3-3
Electromagnetic Immunity Standards	EN 55035, EN 61000-6-1
Warranty	5-year limited warranty. Extended warranty not available. See avigilon.com/support/warranty.

Analytics Specifications

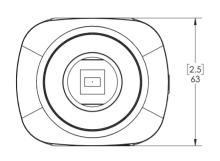
Supported Analytics Ev	ents ents				
Objects in Area	The event is triggered when the selected object type moves into the region of interest. This event can be used to count objects.				
Object Loitering	The event is triggered when the selected object type moves into the region of interest and then stays 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.				
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 moves into a region of interest and then 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.				
Supported Classified O	bject Types				
Object Types in Outdoor Mode	Vehicle, sub-types: Car, Pickup Truck, Large Truck, Van, Bicycle, Motorcycle, Bus Person				
Object Types in Indoor Mode	Person				
Teach by Example					
Teach By Example	Yes, when used with Avigilon Control Center™ or Avigilon Unity Video				
Avigilon Control Center	(ACC) Versions Supported Features				
ACC Version 6.14.12 or higher	All supported analytic events with two types of classified objects: person or vehicle. Appearance search when paired with appropriate server hardware. H.265 supported.				
ACC Version 7.2 or higher	All supported analytic events with people and vehicles and all vehicle sub-types as classified objects. Appearance search when paired with appropriate server hardware.				

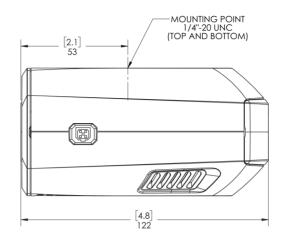
H.265 supported.

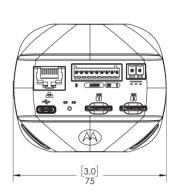
Outline Dimensions

Box Camera (H6X-B)

[X.X]	INCHES
Х	MM







Ordering Information

Box Camera

	MP	WDR	Lightcatcher Technology	Analytics	HDSM SmartCodec
2.0C-H6X-B	2.0	✓	✓	✓	✓
4.0C-H6X-B	4.0	✓	✓	✓	✓
6.0C-H6X-B	6.0	✓	✓	✓	✓
8.0C-H6X-B	8.0	✓	✓	✓	✓

Enclosure Accessories

	Description	Ambient Temperature	Ambient Temperature with optional ES-HD-IPM (PoE) ¹
ES-HD-HWS	Outdoor HD Enclosure with Heater	-20 °C to +55 °C (-4 °F to 131 °F)	-25 °C to +55 °C (-13 °F to 131 °F)
ES-HD-CWS	Outdoor HD Enclosure with Cooling	-10 °C to +55 °C (14 °F to 131 °F)	-20 °C to +55 °C (-4 °F to 131 °F)
ES-HD-HWS-SM	Outdoor HD Small Enclosure with Heater	-20 °C to +50 °C (-4 °F to 122 °F)	N/A

¹ES-HD-IPM module only supports fast ethernet speeds.

Accessories

USB-AC56-NA-MSI-B / USB-AC56-EU-MSI-B	USB Wi-Fi adapter

Lens Accessories

				Housing Compatibility		
	Description	MP	Horizontal Field of View	ES-HD- HWS	ES-HD- CWS	ES-HD- HWS-SM
AG3Z2812TCS-MPWIR-MSI	Computar 2.8-8.5mm f1.2, 1/2.7", 6MP, iCS	2.0	41° - 121°	√ 1	√ 1	
AG3Z2812KCS-MPWIR-MSI	Computar 2.8-8.5mm f1.2, 1/2.7", 5MP, P-Iris	2.0	41° - 121°	√ 1	√ 1	
M13VG2713IR-MSI	Tamron 2.7-13mm f1.4, 1/2.7", 3MP, DC Iris	2.0	26° - 122°	✓	✓	
SL183A-MSI	Theia 1.8-3mm f1.8,1/2.7", 4K, DC Iris	2.0	86° - 114°	√ 1	√ 1	
SL940P-MSI	Theia 9-40mm f1.5, 1/2.3", 4K, P-Iris	2.0	8° - 35°	✓	✓	✓
M13VG850IR-MSI	Tamron 8-50mm f1.6, 1/2.7, 3MP, DC Iris	2.0	6° - 38°	√ 1	√ 1	✓
FG50020P.IR-MSI	Ricom 3.4-9.85mm f1.86, 1/2.7, 5MP, DC Iris	2.0	33° - 102°	√ 1	√ 1	
		2.0	7° - 34°			√
EGGZGGGETGG MENNIE MOL	Computar 9-50mm f1.5, 1/1.8", 4K, iCS	4.0	9° - 46°	- - -	√	
EG6Z0915TCS-MPWIR-MSI		6.0	9° - 46°			
		8.0	9° - 46°			
		2.0	6° - 27°	- -	✓	√
OL 4050D MOL	Theia 12-50mm f1.8, 1/1.7", 4K, P-Iris	4.0	9° - 38°			
SL1250P-MSI		6.0	8° - 37°			
		8.0	8° - 37°			
	Computar 3.9-10mm f1.5, 1/1.8", 4K, P-Iris	4.0	46° - 120°	√ 1	√ 1	
EG3Z3915KCS-MPWIR-MSI		6.0	45° - 119°			
		8.0	45° - 119°			
		4.0	46° - 120°	√ 1	√ 1	
EG3Z3915TCS-MPWIR-MSI	Computar 3.9-10mm f1.5, 1/1.8", 4K, iCS	6.0	45° - 119°			
		8.0	45° - 119°			
M117VG3817IR-MSI	Tamron 3.8-17mm f1.4, 1/1.7, 4K, DC Iris	4.0	27° - 114°	√	√	√
		6.0	26° - 113°			
		8.0	26° - 113°			
		4.0	48° - 107°			
HV03610P.IR-MSI	Ricom HV03610P.IR (3.6-10mm)	6.0	47° - 105°	√	√	✓
		8.0	47° - 105°			

¹ Vertical occlusion can be expected at full wide zoom, even with sunshade removed.

Support

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