



Brand Avigilon H5A Hardware with General Security Software Modelo: H5A Fish Eyes - AI - Video Camera and Video Intercom Bundle

H5A FISHEYE CAMERA

8 MP

12 MP

COST-EFFECTIVE 360° COVERAGE WITHOUT BLIND SPOTS

The Avigilon H5A Fisheye Camera is a cost-effective and easy-to-install solution that provides 360° panoramic views of large areas from a single vantage point, bringing superior situational awareness without any blind spots. Facilities such as schools, retailers, offices, hospitals and manufacturing plants can leverage the camera's high-resolution video to monitor processes and optimize operational efficiencies, along with its analytics and AI capabilities to proactively detect critical events and enhance the productivity of security teams.



360° PANORAMIC VIEWS

Provides 360° coverage from a single vantage point to help lower overall video security deployment costs.



NEXT-GENERATION VIDEO ANALYTICS

Detects more people with greater accuracy, even in crowded scenes to support faster responses.



H.264 AND H.265 HDSM SMARTCODEC™ TECHNOLOGY

Optimizes compression levels for regions in a scene to help maximize bandwidth savings and keep internet connectivity costs down.



LOW-PROFILE & EASY-TO-INSTALL DESIGN

Offers unobtrusive monitoring with a paintable front plate¹ that can be customized to fit in with interior aesthetics, backed by an easy installation.



WATER & IMPACT RATED²

IP66/67 rating for water resistance and IK10 impact rating for vandal resistance.



WIDE DYNAMIC RANGE

Captures details in scenes with both very bright and very dark areas to maximize image quality.



ADAPTIVE IR TECHNOLOGY²

Provides optimal brightness in scenes with low-light for high-resolution image detail.



AUDIO RECORDING CAPABILITIES

Built-in microphone offers an optional audio recording capability for additional evidentiary detail.



FIPS 140-2 COMPLIANT

Brings increased data security with FIPS-compliant cryptography enabled on cameras³.



ONVIF® COMPLIANT

Native ONVIF Profile S, T and G compliance allows for flexible integration with existing ONVIF infrastructures.



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APPEARANCE SEARCH

Search Made Simple

Avigilon Appearance Search™ video analytics technology is a sophisticated deep learning AI search engine for video. It sorts through hours of video with ease, to quickly locate a specific person or vehicle of interest by entering physical descriptions, uploading a photo, or by finding an example within recorded video. Appearance Search can improve incident response time and enhance forensic investigations by helping operators compile robust video evidence, create a powerful narrative of events, and reveal a vehicle or individual's route or last-known location.



FACIAL RECOGNITION

Enriching Fixed Video Security with Facial Recognition

AI-powered facial recognition technology, within Avigilon Control Center (ACC), helps you accelerate response times by quickly identifying people of interest. Facial recognition offers the context to make better informed decisions that empower you



NEXT-GENERATION VIDEO ANALYTICS

Artificial Intelligence That Delivers Actionable Results

Detect up to 50 objects in a scene, even if they are stationary, providing greater accuracy for perimeter protection and in crowded environments. Its expanded object classification goes beyond people and vehicles to include distinguishing between cars, trucks, buses, motorcycles, and bicycles.



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SELF-LEARNING VIDEO ANALYTICS

Focus Your Attention Where It Matters Most

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.



UNUSUAL ACTIVITY DETECTION

Uncover Atypical Events that May Go Unnoticed

Unusual Activity Detection (UAD) provides new edge-based intelligence that uses advanced AI technology. It is designed to enable the detection of atypical activities, such as people and vehicles traveling at faster speeds or are in unusual locations and alert operators.

Features



360° Panoramic Views

Provides 360° coverage from a single vantage point to help lower overall video security deployment costs.



H.264 and H.265 with HDSM SmartCodec™ Technology

Optimizes compression levels for regions in a scene to help maximize bandwidth savings and keep internet connectivity costs down.



Low-profile & Easy-to-install Design

Offers unobtrusive monitoring with a paintable front plate¹ that can be customized to fit in with interior aesthetics, backed by an easy installation.



FIPS 140-2 Compliant

Brings increased data security with FIPS-compliant cryptography enabled on cameras².



ONVIF® Compliant

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



Next-Generation Video Analytics

Detects more people with greater accuracy, even in crowded scenes, to support faster responses.



Water & Impact Rated³

IP66/67 rating for water resistance and IK10 impact rating for vandal resistance.



Wide Dynamic Range

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



Adaptive IR Technology³

Provides optimal brightness in scenes with low-light for high-resolution image detail.



Audio Recording Capabilities

Built-in microphone offers an optional audio recording capability for additional evidentiary detail.

ONVIF is a trademark of Onvif, Inc.

¹ Available on in-ceiling mount only.

² Optional purchase of FIPS Level 1 camera license.

³ Available on surface mount only.



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Specifications

Image Performance		8.0 MP	12.0 MP
Image Sensor		1/1.8" progressive scan CMOS	1/2.3" progressive scan CMOS
Active Pixels (H x V)		2048 x 2048	3008 x 3008
Imaging Area (H x V)		4.096 mm x 4.096 mm	4.662 mm x 4.662 mm
Warped 360° Video Streaming Resolutions	Primary Stream	2048 x 2048	3008 x 3008
	Secondary Stream	512 x 512; 384 x 384	512 x 512; 384 x 384
	Tertiary Stream	320 x 320	320 x 320
Dewarped Video Streaming Resolutions	Primary Stream	180° x 2 (2304 x 928); 120° x 3 (1536 x 928); 90° x 4 (1152 x 928)	180° x 2 (3072 x 1232); 120° x 3 (2048 x 1232); 90° x 4 (1536 x 1232)
	Secondary Stream	180° x 2 (576 x 232); 120° x 3 (384 x 232); 90° x 4 (288 x 232)	180° x 2 (768 x 304); 120° x 3 (512 x 304); 90° x 4 (384 x 304)
Horizontal Angle of View (HFOV)		180°	
Max Image Rate		(50 Hz/60 Hz): 25 fps/30 fps	(30 Hz/60 Hz): 15 fps/30 fps ¹
Dynamic Range	WDR Off:	Up to 83 dB	
	WDR On:	Up to 120 dB	
Camera Operating Mode		Full feature or Dewarped video mode (Analytics disabled in Dewarped video mode)	Full feature, High framerate, or Dewarped video mode (Analytics disabled in High framerate and Dewarped video modes)
Bandwidth Management		HDSM SmartCodec technology; Idle scene mode	
3D Noise Reduction Filter		Yes	

¹ Max Frame Rate of 30 fps is only achievable with High Frame Rate mode enabled. High Frame Rate mode will disable analytics.

Lens and IR Illumination		8.0 MP	12.0 MP
Lens		1.4 mm	1.6 mm
IR Illumination Max Distance (high power 850 nm LEDs)		17 m (55 ft) max distance at 0 lux	12 m (39 ft) max distance at 0 lux
Minimum Illumination	With IR	0 lux	
	Without IR	0.10 lux in monochrome mode; 0.20 lux in color mode	
Field of View		360°	
Max Aperture		F2.0	
Control		Fixed iris	

Image Control	
Image Compression Method	H.264 HDSM SmartCodec, H.265 HDSM SmartCodec, Motion JPEG
Streaming	Multi-stream H.264, Multi-stream H.265, Motion JPEG
Motion Detection	Pixel motion and classified object detection
Tamper Detection	Yes
Electronic Shutter Control	Automatic, Manual (1/6 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



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Perimeter IP Camera from 3MP to 8MP - 60fps to 30 fps



Network	
Network	100BASE-TX, RJ45 Connector, CAT5e Cabling
ONVIF	ONVIF compliance Profile S, Profile T, Profile G, and Profile M (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)
Protocols	IPv6, IPv4, HTTP, HTTPS, SOAP, DNS, NTP, RTSP, RTCP, RTP, TCP, UDP, IGMPv3, ICMP, DHCP, Zeroconf, ARP, HSTS, QoS, DSCP
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	
Onboard Storage	2 x microSD/microSDHC/microSDXC slots - video speed class card required. Class V10 or better recommended. Currently one of the two SD card slots is available for onboard storage.

Auxiliary I/O	
Audio Compression Method	Opus, G.711 PCM 8 kHz
Audio Input/Output	Line level I/O and built-in microphone (can be enabled)
External I/O Terminals	Alarm In, Alarm Out

		Surface Mount	In-Ceiling Mount
Dimensions (LxWxH)	Camera	145.5 mm x 145.5 mm x 62 mm; 5.72" x 5.72" x 2.44"	200.6 mm x 200.6 mm x 14.2 mm; 7.9" x 7.9" x 0.56"
	With Mounting Plate	145.5 mm x 145.5 mm x 62 mm; 5.72" x 5.72" x 2.44"	N/A
	With NPT Adapter	158 mm x 158 mm x 103 mm; 6.2" x 6.2" x 4.1"	N/A
Weight	Camera	0.52 kg (1.15 lbs)	0.595 kg (1.31 lbs)
	With Mounting Plate	0.605 kg (1.33 lbs)	N/A
	With NPT Adapter	0.838 kg (1.83 lbs)	N/A
Max. Ceiling Thickness	N/A	31.75 mm; 1.25"	
Dome Bubble	Polycarbonate, clear	N/A	
Body	Aluminum	Polycarbonate	
Housing	Aluminum	Polycarbonate	
Finish	Cast, powder coated, close to RAL9002	Plastic, injection molded, close to RAL9002	

		Surface Mount	In-Ceiling Mount
Power Consumption		With IR: 26 W Without IR: 11 W	11 W
Power Source		VDC: 12 V +/-10%, 26 W min PoE: IEEE 802.3af Class 3 PoE+: IEEE 802.3at Class 4	VDC: 12 V +/-10%, 11 W min PoE: IEEE 802.3af Class 3
Power Connector		2-pin terminal block	
RTC Battery Backup		3V manganese lithium	
Memory		2 GB RAM, 512 MB Flash	

		Surface Mount	In-Ceiling Mount
Operating Temperature		-40 °C to +60 °C (-40 °F to 140 °F)	-10 °C to +60 °C (14 °F to 140 °F)
IR Illuminator Behavior		IR illuminator will turn off if the temperature is 55 °C (131 °F) or higher. The illuminator will operate at 75% power if the temperature is between 27 °C (80 °F) and 39 °C (102 °F) and will operate at 40% power if the	N/A



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Perimeter IP Camera from 3MP to 8MP - 60fps to 30 fps



Environmental	Surface Mount	In-Ceiling Mount
	temperature is between 39 °C (102 °F) and 55 °C (131 °F). Hysteresis: 2 °C (3.6 °F).	
Storage Temperature	-10 °C to +70 °C (14 °F to 158 °F)	
Humidity	0 - 95% non-condensing	
Certifications	Surface Mount	In-Ceiling Mount
Certifications/Approvals	UL, cUL, CE, ROHS, RCM, EAC, UKCA, KC, BIS, NOM	
Safety	UL 62368-1, CSA 62368-1, IEC/EN 62368-1, IEC 62471	
Environmental	IK10 Impact Rating, IP66 and IP67 Weather Rating	IP5X Ingress Rating
Electromagnetic Emissions	FCC Part 15 Subpart B Class B, IC ICES-003 Class B, EN 55032 Class B, EN 50121-4, EN 50130-4, EN 61000-6-3, EN 61000-3-2, EN 61000-3-3	
Electromagnetic Immunity	EN 50121-4, EN 50130-4, EN 55035, EN 61000-6-1	

Analytics Specifications

Supported Analytics Events ¹	
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 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. 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 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 Object Types ¹	
Object Types	Person

¹ Analytics are supported when the camera is installed in the ceiling-mounted orientation mode. There is an analytics blind spot in the middle 20% of the fisheye field of view. Objects will be detected moving in and out of the blind spot, but will not be detected when they are inside the blind spot.

Avigilon Control Center (ACC) Versions Supported Features	
ACC Version 6.14.24 or higher	H.265 supported. Fisheye dewarping is not supported on ACC versions earlier than 6.14.24. Analytics are only supported on ACC 7 systems.
ACC Version 7.12.4 or higher	All supported analytic events with people as classified objects. H.265 supported. Fisheye dewarping is not supported on ACC versions earlier than 7.12.2.



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“Person and Intrusion Counter”



Easily identify who's at the door

Clearly see who's visiting your site in all lighting conditions with the built-in 3 MP camera, equipped with Wide Dynamic Range and adaptive IR technologies. The wide-angle fisheye lens captures visitors of all heights.



IMAGE PERFORMANCE

Image Sensor	1/2.8" Progressive Scan CMOS		
Aspect Ratio	4:3		
Active Pixels (H x V)	2048 (H) x 1536 (V)		
Imaging Area (H x V)	3.7 mm x 3.0 mm, 0.145" x 0.118"		
Imaging Rate	30 fps		
Minimum Illumination	With IR	0 lux	
	Without IR	0.14 lux (F2.4) in color mode; 0.03 lux (F2.4) in monochrome mode	
IR Illumination	5 m (15 ft) max. distance at 0 lux		
Dynamic Range	100 dB		
Dynamic Range (WDR enabled)	120 dB triple exposure (20 fps or less); 100 dB dual exposure (30 fps)		
Resolution Scaling	Down to 384 x 216		
3D Noise Reduction Filter	Yes		

AUDIO CONTROL

Audio Streaming	Two-way, Full Duplex		
Audio Compression Method	Opus, G.711		
Audio Output	90 dB at 1m (3.3")		
Audio Input/Output	Built-in microphone with hardware disable / Built-in speaker		
Echo Cancellation	Yes		
Noise Reduction	Yes		

CERTIFICATIONS

Certifications/Directives	UL, cUL, CE, UKCA, ROHS, RCM, KC			
Safety	UL 62368-1	CSA 62368-1	IEC/EN 62368-1	IEC 62471
Environmental	IK10 Impact Rating on enclosure and IK08 on bubble		IP66 Rating	
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	

3 MP fisheye camera with a high-performance intercom, featuring echo-canceling and noise reduction technologies, for clear two-way communication (Duplex).

Varifocal and adjustable lens from 1.4mm to 3.7mm



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