H5A FISHEYE CAMERA



12 MP

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. Proudly made in North America, 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 Al capabilities to proactively detect critical events and enhance the productivity of security teams.





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

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

ONVIF is a trademark of Onvif, Inc.

¹ Available on in-ceiling mount only.



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 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.

- Optional purchase of FIPS Level 1 camera license or CRYPTR microSD hardware-based encryption and key management for FIPS Level 3 support and certification.
- ³ Available on surface mount only.





SPECIFICATIONS

IMAGE PERFORM	MANCE	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
Max Image Rate		(50 Hz/60 Hz): 25 fps/30 fps	
D	WDR Off:	Up to 83 dB	
Dynamic Range	WDR On:	Up to 120 dB	
Camera Operating M	lode	No modes	Full feature or High framerate mode (Analytics disabled in High framerate mode)
Bandwidth Managen	nent	HDSM SmartCodec technology; Idle scene mode	
3D Noise Reduction F	ilter	Yes	
LENS AND IR ILL	LIMINATION	8.0 MP	12.0 MP
Lens AND IN ILL	.OMINATION	1.4 mm	1.6 mm
	Nintaga - Hair I		
IR Illumination Max D 850 nm LEDs)	Istance (high power	17 m (55 ft) max distance at 0 lux	12 m (39 ft) max distance at 0 lux
Minimum	With IR	0 lux	0 lux
Illumination	Without IR	0.10 lux in monochrome mode; 0.20 lux in color mode	0.19 lux in monochrome mode; 0.38 lux in color mode
Horizontal Angle of V	iew (HFOV)	180°	
Field of View		360°	
Max Aperture		F2.0	
Control		Fixed iris	
IMAGE CONTRO			
Image Compression		H.264 HDSM SmartCodec, H.265 HDSM SmartCodec, Mo	tion 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 Co	ontrol	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 Compensat	tion	Adjustable	
Privacy Zones		Up to 64 zones	
NETWORK			
Network		100BASE-TX, RJ45 Connector, CAT5e Cabling	
		ONVIF compliance Profile S, Profile T, and Profile G (www.onvif.org)	
ONVIF 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), FIPS 140-2 L3 (with optional accessory)	
Protocols		IPv6, IPv4, HTTP, HTTPS, SOAP, DNS, NTP, RTSP, RTCP, RTP, TCP, UDP, IGMP, ICMP, DHCP, Zeroconf, ARP	
Protocols		IF VO, IF V4, ITTIF, ITTIF 3, 30 AF, DN3, NTF, NTSF, NTGF, I	
Protocols Streaming Protocols		RTP/UDP, RTP/UDP multicast, RTP/RTSP/TCP, RTP/RTSP,	

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

MECHANICAL		SURFACE MOUNT	IN-CEILING MOUNT
	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"
Dimensions (LxWxH)	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
	Camera	0.52 kg (1.15 lbs)	0.595 kg (1.31 lbs)
Weight	With Mounting Plate	0.605 kg (1.33 lbs)	N/A
	With NPT Adapter	0.838 kg (1.83 lbs)	N/A
Max. Ceiling Thicknes	S	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

ELECTRICAL	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	

ENVIRONMENTAL	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 temperature is between 39 °C (102 °F) and 55 °C (131 °F). Hysteresis: 2 °C (3.6 °F).	N/A
Storage Temperature	-10 °C to +70 °C (14 °F to 158 °F)	
Humidity	0 - 95% non-condensing	

CERTIFICATIONS	SURFACE MOUNT	IN-CEILING MOUNT
Certifications/Directives	UL, cUL, CE, ROHS, RCM, EAC	
Safety	UL 62368-1, CSA 62368-1, IEC/EN 62368-1, IEC 62471	
Environmental	IK10 Impact Rating, IP66 and IP67 Weather Rating	N/A
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 55035, EN 61000-6-1	

ANALYTICS SPECIFICATIONS

SUPPORTED ANALYTICS E	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 TYPES¹

		_
Obiect Types	in Indoor Mode	Persor

Analytics are supported when the camera is installed in the ceiling-mounted orientation mode.

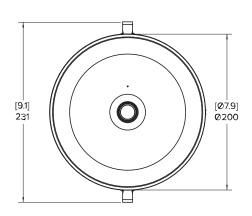
AVIGILON CONTROL CENT	AVIGILON CONTROL CENTER (ACC) VERSIONS SUPPORTED FEATURES	
ACC Version 6.14.24 or higher	H.265 supported. Fisheye dewarping is not supported on ACC versions earlier than 6.14.24. Analytics are only supported on ACC 7 systems.	
ACC Version 7.12.4 or higher	All supported analytic events with people as classified objects. H.265 supported. Fisheye dewarping is not supported on ACC versions earlier than 7.12.2.	

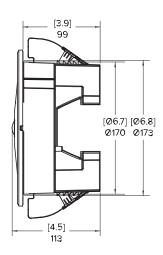
OUTLINE DIMENSIONS

IN-CEILING MOUNT CAMERA

(H5A-FE-DC)

[X.X]	INCHES
Χ	MM

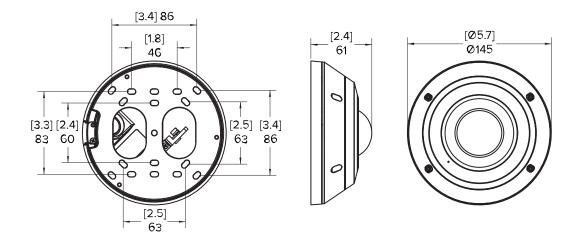




SURFACE MOUNT CAMERA

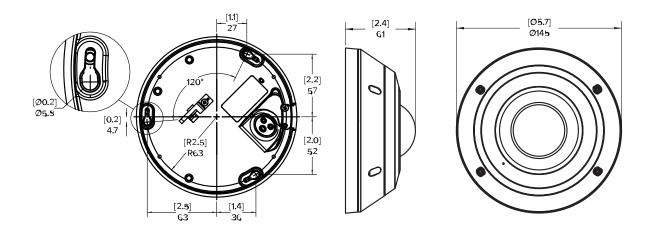
(H5A-FE-DO WITH MOUNTING PLATE)

[X.X]	INCHES
Χ	MM



(H5A-FE-DO WITHOUT MOUNTING PLATE)

[X.X]	INCHES			
Х	MM			



PENDANT MOUNT CAMERA

(H5A-FE-DO WITH H5A-FE-MT-NPTA1 PENDANT ADAPTER)

1.5" NPT [4.4] 112	[06.2] @157
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ORDERING INFORMATION

SURFACE MOUNT CAMERA

	MP	WDR	ANALYTICS1	LENS	IR	IP66/IP67	HDSM SMARTCODEC	LIGHTCATCHER TECHNOLOGY
8.0C-H5A-FE-D01	8.0	1	✓	Fisheye 1.4 mm		✓	✓	✓
8.0C-H5A-FE-D01-IR	8.0	1	✓	Fisheye 1.4 mm	1	✓	✓	✓
12.0W-H5A-FE-D01	12.0	1	✓	Fisheye 1.6 mm		✓	✓	
12.0W-H5A-FE-D01-IR	12.0	1	✓	Fisheye 1.6 mm	1	✓	√	

¹Analytics are supported when the camera is installed in the ceiling-mounted orientation mode.

IN-CEILING MOUNT CAMERA

	MP	WDR	ANALYTICS ²	LENS	IR	IP66/IP67	HDSM SMARTCODEC	LIGHTCATCHER TECHNOLOGY
8.0C-H5A-FE-DC1	8.0	✓	✓	Fisheye 1.4 mm			✓	✓
12.0W-H5A-FE-DC1	12.0	1	✓	Fisheye 1.6 mm			✓	

²Analytics are supported when the camera is installed in the ceiling-mounted orientation mode.

OPTIONAL CAMERA LICENSES AND ACCESSORIES

H5A-FE-MT-NPTA1	NPT adapter for the H5A Fisheye surface mount camera				
CM-MT-WALL1	Pendant wall mount, compatible with H5A-FE-MT-NPTA1				
H4-MT-CRNR1	Aluminum corner mounting bracket, compatible with CM-MT-WALL1				
H5A-FE-DC-CPNL1	Metal ceiling panel to reinforce the existing ceiling tile in suspended ceiling installations				
H5A-FE-DD-CLER1 Package of 3 dome replacement parts for H5A fisheye surface mount camera					
CAM-FIPS	Camera license to enable FIPS Level 1 cryptographic mode on any H5A camera				

SUPPORT

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





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