

# H5A Fisheye Camera

#### 8 MP 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, commercial offices 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.





### 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 and a paintable front plate<sup>1</sup>

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 cameras<sup>3</sup>.



#### **ONVIF® COMPLIANT**

Native ONVIF Profile S, T, and G 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 RATED<sup>2</sup> 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 TECHNOLOGY<sup>2</sup>**

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



Available on in-ceiling mount only.

#### AUDIO RECORDING CAPABILITIES

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

#### Preliminary Specifications - Subject to Change

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<sup>3</sup> Optional purchase of FIPS Level 1 camera license or CRYPTR microSD hardware-based encryption and key management for FIPS Level 3 support and certification.

## Specifications

			8.0 MP	12.0 MP					
IMAGE	Image Senso	or	1/1.8" Progressive Scan CMOS	1/2.3" Progressive Scan CMOS					
PERFORMANCE	Active Pixels	$(H \times V)$	2048 × 2048	3008 × 3008					
	Imaging Area (H x V)		4.096 mm × 4.096 mm	4.662 mm × 4.662 mm					
	Max Image Rate		(50 Hz/60 Hz): 25 fps/30 fps						
	Dynamic	WDR Off	TBD	TBD					
	Range	WDR On	TBD	TBD					
	Camera Operating Modes		N/A	Full feature mode or High framerate mode (Analytics are disabled in High framerate mode)					
	Bandwidth M	lanagement	HDSM SmartCodec technology; Idle scene mode						
	3D Noise Ree	duction Filter	Yes						
LENS	Lens		1.4 mm 1.6 mm						
	IR Illumination (high power 850 nm LEDs)		20 m (65 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					
	Field of View	,	360°						
	Max Aperture		=2.0						
	Control		Fixed iris						
	Image Comp	eccien Metheel							
IMAGE CONTROL			H.264 HDSM SmartCodec, H.265 HDSM SmartCodec, Motion JPEG						
	Streaming Motion Deteo	ction	Multi-stream H.264, Multi-stream H.265, Motion JPEG Pixel motion and classified object detection						
	Tamper Dete								
	Electronic Sh			Yes					
	Iris Control		Automatic, Manual (1/6 to 1/8000 sec)						
	Day/Night Co	ontrol	Fixed						
	Flicker Contr		Automatic, Manual 60 Hz, 50 Hz						
	White Balance		Automatic, Manual						
	Backlight Co		Adjustable						
	Privacy Zones		Up to 64 zones						
NETWORK	Network		100BASE-TX						
	Cabling Type		CAT5e						
	Connector		RJ-45						
	ONVIF		ONVIF compliance Profile S, Profile T, and Profile G (www.onfiv.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), FIPS 140-2 L3 (with optional accessory)						
	Protocol Streaming Protocole		IPv6, IPv4, HTTP, HTTPS, SOAP, DNS, NTP, RTSP, RTCP, RTP, TCP, UDP, IGMP, ICMP, DHCP, Zeroconf, ARP						
	Streaming Protocols Device Management Protocols		RTP/UDP, RTP/UDP multicast, RTP/RTSP/TCP, RTP/RTSP/HTTP/TCP, RTP/RTSP/HTTPS/TCP, HTTP SNMP v2c, SNMP v3						
PERIPHERALS			2 × microSD/microSDHC/microSDXC slot – class 10/UHS-1 or better recommended.						
	Onboard Sto		Currently one of the two SD card slots is available for onboard storage.						
AUXILIARY I/O	Audio Input/C		Line level input and output and built-in microphone (can be enabled)						
	Audio Compression Method								
	External I/O	ierminals	Alarm In, Alarm Out						
MEGUANICA	D:								
MECHANICAL	Dimensions (		145.5 mm × 145.5 mm × 62 mm; 5.72" × 5.72" × 2.44"	200.6 mm × 200.6 mm × 14.2 mm; 7.9" × 7.9" × 0.56"					
	Max. Ceiling		N/A	1.25"					
		Camera	0.52 kg; 1.13 lbs	0.595 kg; 1.31 lbs					
	Weight	Mounting Plate	0.085 kg; 0.18 lbs	N/A					
		With NPT Adapter	TBD	N/A					
	Dome Bubble		Polycarbonate, clear	N/A					
	Body		Aluminum	Polycarbonate					
	Housing		Surface mount	Recessed mount					
	Finish		Cool grey						
ELECTRICAL	Power Consumption		With IR: 26 W; Without IR: 11 W	11 W					
	Power Source		VDC: 12 V ±10%, 26 W min         VDC: 12 V ±10%, 11 W min           (With IR) PoEH: IEEE 802.3at Class 4         PoE: IEEE 802.3at Class 3						
	Power Connector		(Without IR) PoE: IEEE 802.3af Class 3       2-pin terminal block						
	RTC Backup Battery		3V manganese lithium						

ENVIRONMENTAL	Operating Temperature	-40 °C to +60 °C (-40 °F to 140 °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/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						
SUPPORTED VIDEO ANALYTICS	Objects in Area*	The event is triggered when the selected object type moves into the region of interest.						
EVENTS IN	Object Loitering*	The event is triggered when the selected object type stays within the region of interest for an extended amount of time.						
CEILING MOUNT ORIENTATION	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	The event is triggered by each object that enters the region of interest. This event can be used to count objects.						
	Area*	The event is inggered 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*	he event is triggered when an object moves in the prohibited direction of travel.						
	Tamper Detection*	The event is triggered when the scene unexpectedly changes.						
	* Analytics are supported when the camera is installed in the ceiling-mounted orientation mode.							
SUPPORTED CLASSIFIED OBJECT TYPES	Object Types in Indoor Mode*	Person						
	* Analytics are supported when the camera is installed in the ceiling-mounted orientation mode.							
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 Dome Camera (H5A-FE-DC)





X MM

## Surface Mount Dome Camera

#### (H5A-FE-DO) WITH MOUNTING PLATE







(H5A-FE-DO) WITHOUT MOUNTING PLATE





### Pendant Mount Dome Camera (H5A-FE-DO) WITH H5A-FE-MT-NPTA1





Preliminary Specifications - Subject to Change

## Ordering Information

SURFACE MOUNT DOME CAMERAS	MP	WDR	LIGHTCATCHER TECHNOLOGY	ANALYTICS*	LENS	IR	IP66/IP67	HDSM SMARTCODEC
8.0C-H5A-FE-DO1	8.0	$\checkmark$	$\checkmark$	$\checkmark$	Fisheye 1.4 mm		$\checkmark$	$\checkmark$
8.0C-H5A-FE-DO1-IR	8.0	$\checkmark$	$\checkmark$	$\checkmark$	Fisheye 1.4 mm	$\checkmark$	$\checkmark$	$\checkmark$
12.0W-H5A-FE-DO1	12.0	$\checkmark$		$\checkmark$	Fisheye 1.6 mm		$\checkmark$	$\checkmark$
12.0W-H5A-FE-DO1-IR	12.0	$\checkmark$		$\checkmark$	Fisheye 1.6 mm	$\checkmark$	$\checkmark$	$\checkmark$

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

SURFACE MOUNT ACCESSORIES	DESCRIPTION
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-DD-CLER1	Package of 3 dome replacement parts for H5A fisheye surface mount camera

IN-CEILING MOUNT INDOOR DOME CAMERAS	MP	WDR	LIGHTCATCHER TECHNOLOGY	ANALYTICS*	LENS	IR	IP66/IP67	HDSM SMARTCODEC
8.0C-H5A-FE-DC1	8.0	$\checkmark$	$\checkmark$	$\checkmark$	Fisheye 1.4 mm			$\checkmark$
12.0W-H5A-FE-DC1	12.0	$\checkmark$		$\checkmark$	Fisheye 1.6 mm			$\checkmark$

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

#### IN-CEILING MOUNT ACCESSORIES DESCRIPTION

H5A-FE-DC-CPNL1

Metal ceiling panel to reinforce the existing ceiling tile in suspended ceiling installations

#### OPTIONAL CAMERA LICENSES AND ACCESSORIES

 CAM-FIPS
 Camera license to enable FIPS Level 1 cryptographic mode on any H5A camera

 CAM-FIPS-L3-CRYPTR
 CRYPTR microSD hardware-based encryption and key management for FIPS Level 3 support and certification

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