H5A PTZ CAMERA



The Avigilon H5A Pan-Tilt-Zoom (PTZ) camera brings wide area coverage, high-speed movement and long range, evidentiary detail for security operators to monitor large areas with ease. As an Avigilon H5 platform camera, the H5A-PTZ camera is embedded with Next-Generation Video Analytics for enhanced object detection and classification, Unusual Activity Detection (UAD), along with support for Facial Recognition technology and Avigilon Appearance Search™ technology to help ensure critical events do not go unnoticed.





FEATURES



NEXT-GENERATION VIDEO ANALYTICS

Detects more objects with expanded object classifications and greater accuracy for faster responses, even in crowded scenes.



LONG RANGE DETAIL

2 MP with 36x zooming capabilities sets a new standard for high-performance 36x PTZ cameras with greater evidentiary detail.



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.



WATER, IMPACT AND ENCLOSURE RATED

IP66/67 rating for water resistance, IK10 impact rating for vandal resistance and NEMA 4X enclosure rating for windblown dust, water (e.g. rain, hose-directed water), and corrosion resistance.



LIGHTCATCHER™ TECHNOLOGY

Offers exceptional detail in areas with low lighting.



TRUE WIDE DYNAMIC RANGE

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



ONVIF® COMPLIANT

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



FIPS 140-2 COMPLIANT

Brings increased data security with FIPS-compliant cryptography enabled on cameras¹.



EASY TRANSITION FROM H4 PTZ TO H5A-PTZ

Field-replaceable parts allow for an easy transition from H4 PTZ cameras to H5A-PTZ cameras



WIDE AREA COVERAGE

Provides 360° zoomable views in high-resolution to monitor large areas with ease.



ONVIF is a trademark of Onvif. Inc.

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

IMAGE PERFOR	MANCE		
Image Sensor		1/2.8" progressive scan CMOS	
Active Pixels (H x V)		1920 (H) × 1080 (V)	
Imaging Area (H x \	V)	4.8 mm × 2.7 mm; 0.189" × 0.106"	
Minimum Illuminati	on	0.1 lux (F/1.6) in color mode; 0.03 lux (F/1.6) in monochrome	
Dynamic Range		120+ dB	
Image Rate		Up to 60 fps	
Aspect Ratio (Reso	lution Scaling)	Down to (16:9) 384×216 or (5:4) 320×256	
3D Noise Reduction	n Filter	Yes	
LENC			
Lens		4.3 mm to 129 mm, F/1.6 – F/4.7, autofocus	
Lens	Harizantal		
Angle of View	Horizontal	63.7° – 1.9°	
Zoom	Vertical	38.5° – 1.1° 26v (with image stabilization off), 20v (with image stabilization on)	
Zoom		36x (with image stabilization off), 30x (with image stabilization on)	
IMAGE CONTRO	DL		
Video Compression	ı	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: Selectable sensitivity and threshold. Classified object detection	
Electronic Shutter (Control	Automatic, Manual (1/1 to 1/10,000 sec)	
Iris Control		Automatic, Open, Closed	
Day/Night Control		Automatic, Manual	
Flicker Control		60 Hz, 50 Hz	
White Balance		Automatic, Manual	
Backlight Compens	ation	On/Off	
Privacy Zones		3D, up to 64 zones	
Presets		500 named presets	
Tours		10 named tours	
Audio Compression	n Method	G.711, Opus	
Digital Zoom		Up to 100x when used with ACC™ Client	
Electronic Image St	abilization	Yes	
Digital Defog		Adjustable/Off	
NETWORK			
Network		100BASE-TX	
Cabling Type		CAT5e	
Connector		RJ-45	
		ONVIF compliance version 1.02, 2.00, Profile S, Profile G (www.onfiv.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)	
Protocol		IPv6, IPv4, HTTP, HTTPS, SOAP, DNS, NTP, RTSP, RTCP, RTP, TCP, UDP, IGMP, ICMP, DHCP, Zeroconf, ARP, HSTS	
Streaming Protoco	s	RTP/UDP, RTP/UDP multicast, RTP/RTSP/TCP, RTP/RTSP/HTTP/TCP, RTP/RTSP/HTTPS/TCP, HTTP	
Device Management Protocol		SNMP v2c, SNMP v3	

PERIPHERALS	
Audio Input/Output	Line level input and output
External I/O Terminals	2 Alarm In, 2 Alarm Out
Onboard Storage	2 × microSD/microSDHC/microSDXC slot – video speed class card required. Class V10 or better recommended.

MECHANICAL	IN-CEILING MOUNT	PENDANT MOUNT
Dimensions (Ø×H)	228 mm × 252 mm; 9.0" × 9.9"	242 mm × 347 mm; 9.5" × 13.7"
Weight	3.4 kg; 7.5 lbs	3.7 kg; 8.2 lbs
Dome Bubble	Polycarbonate	
Body	Aluminum	
Housing	Recessed mount	Pendant mount
Finish	Cast, powder coated, close to RAL9002	
Tilt	-10° to 90°, e-Flip, 300°/second	
Pan	360°, endless, 300°/second	

ELECTRICAL		
Power Consumption		51 W max with 24 VDC aux power, 75 VA with 24 VAC aux power, 51 W max with 60 W PoE++, 25.5 W max with 30 W PoE+
	External Power	24 VDC ±10%; 24 VAC rms ±10%, 50 or 60 Hz
Power Source	PoE*	60 W PoE: IEEE 802.3bt Class 6 PoE++, 60 W Cisco U PoE, Microsemi 60 W or higher midspans 30 W PoE: IEEE 802.3bt, 802.3at Class 4 PoE+
Power Connector		Red and Black input wires
RTC Backup Battery		3V manganese lithium
Memory		2 GB RAM, 512 MB Flash

*60W PoE may not be compatible with switches and injectors not listed here. Contact Avigilon sales or Avigilon technical support for more information.

ENVIRONMENTAL	IN-CEILING MOUNT	PENDANT MOUNT
Operating Temperature	-30 °C to +60 °C (-22 °F to 140 °F) with external power or 60 W PoE -10 °C to +60 °C (14 °F to 140 °F) with IEEE 802.3at 30 W PoE+	-40 °C to +60 °C (-40 °F to 140 °F) with external power or 60 W PoE -10 °C to +60 °C (14 °F to 140 °F) with IEEE 802.3at 30 W PoE+
Storage Temperature	-10 °C to +70 °C (14 °F to 158 °F)	
Humidity	0-95%, non-condensing	

CERTIFICATIONS			
Certifications/Directives		UL, cUL, CE, ROHS, RCM, EAC, KC, BIS, UKCA, NOM	
Safety		UL 62368-1, CSA 62368-1, IEC/EN 62368-1	
Fnvironmental	In-Ceiling	IEC 62262 IK10 Impact Rating, UL 2043	
Elivii Olillielitai	Pendant	IEC 62262 IK10 Impact Rating, UL/CSA/IEC 60950-22, IEC 60529 IP66 and IP67 Weather Rating, NEMA 4X	
Electromagnetic Emis	sions	FCC Part 15 Subpart B Class B, IC ICES-003 Class B, EN 55032 Class B, EN 61000-6-3, EN 61000-6-4, EN 61000-3-2, EN 61000-3-3, EN 50121-4	
Electromagnetic Immunity		EN 55035, EN 61000-6-1, EN 50121-4	

ANALYTICS SPECIFICATIONS

SUPPORTED ANALYTICS E	EVENTS AT HOME POSITION
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 (DBJECT TYPES
Object Types in Outdoor Mode	Vehicle, sub-types: Car, Truck, Bicycle, Motorcycle, Bus Person
Object Types in Indoor Mode	Person

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Teach By Example Yes, when used with Avigilon Control Center™

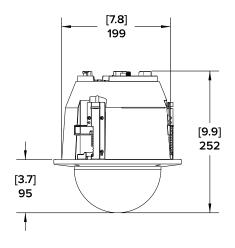
AVIGILON CONTROL CENT	ER (ACC) VERSIONS SUPPORTED FEATURES
ACC Version 6.14.12 or higher	All supported analytic events with two types of classified objects: person or vehicle. Appearance search when paired with appropriate server hardware.
	H.265 supported.
ACC Version 7.2 or higher	All supported analytic events with people and vehicles and all vehicle sub-types as classified objects. Appearance search when paired with appropriate server hardware. H.265 supported.

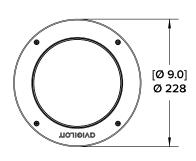
OUTLINE DIMENSIONS

IN-CEILING PTZ DOME CAMERA

(H5A-PTZ-DC)

[X.X]
Х

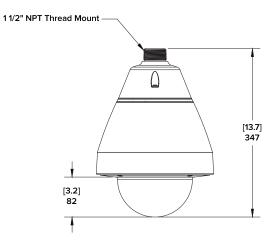


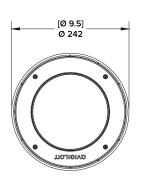


PENDANT PTZ DOME CAMERA

(H5A-PTZ-DP)

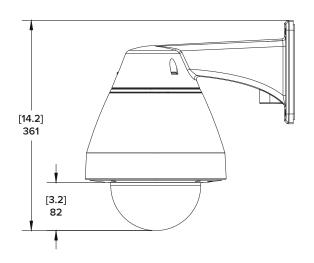
[X.X]	INCHES
Χ	MM

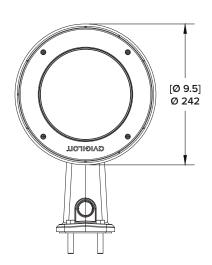




(H5A-PTZ-DP) WITH WALL ARM

[X.X]	INCHES
X	MM





ORDERING INFORMATION

PTZ DOME CAMERAS

	MP	WDR	LIGHTCATCHER TECHNOLOGY	ANALYTICS AT HOME POSITION	LENS	ZOOM	IP66/IP67	HDSM SMARTCODEC
2.0C-H5A-PTZ-DP36	2.0	True WDR	✓	1	4.3 – 129 mm	36x*	1	✓
2.0C-H5A-PTZ-DC36	2.0	True WDR	√	1	4.3 – 129 mm	36x*		√

 $^{^{*}}$ 36x zoom is achieved with Image Stabilization off. Image Stabilization set to on will provide 30x zoom.

PTZ CAMERA ACCESSORIES

	PENDANT PTZ	IN-CEILING PTZ	DESCRIPTION
IRPTZ-MNT-NPTA1	1		NPT Pendant Adapter
IRPTZ-MNT-WALL1	1		Wall Arm Mount
H4-MT-P0LE1	1		Pole Mounting Bracket, compatible with IRPTZ-MNT-WALL1
H4-MT-CRNR1	1		Corner Mounting Bracket, compatible with IRPTZ-MNT-WALL1
PTZMH-DC-CPNL1		1	Metal Ceiling Panel for In-Ceiling Installation
PTZH5A-CLER1	1	1	Clear Bubble Assembly - Replacement
PTZH5A-SM0K1	1	1	Smoked Bubble Assembly - Replacement
POE-INJ-BT-60W-NA	1	1	Gigabit 802.3bt 60W PoE Injector, single port
POE-INJ2-PLUS-NA	2-PLUS-NA ✓		30W PoE+ Injector. Injector operational temperature range is -20°C (-4°F) to 40°C (104°F). NA/EU/UK/AU options available
PTZ-ACCS-IC-RETRO		1	H4 In-Ceiling PTZ audio retrofit kit
H5PTZ-ACCS-CABL1	1		Cable gland nut kit, pack of 10

OPTIONAL CAMERA LICENSES AND ACCESSORIES

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

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





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