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 H5A 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



2 MP

NEXT-GENERATION VIDEO ANALYTICS WITH AUTO-TRACKING

Detects more objects with expanded object classifications and automatically tracks objects in zone for faster, decisive responses.



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.



LIGHTCATCHER™ TECHNOLOGY

Offers exceptional detail in areas with low lighting.



ONVIF® COMPLIANT

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



EASY TRANSITION FROM H4 PTZ TO H5A-PTZ

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





LONG RANGE DETAIL

2 MP with 36x or 40x zooming capabilities sets a new standard for high-performance PTZ cameras with greater evidentiary detail.



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.



TRUE WIDE DYNAMIC RANGE

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



FIPS 140-2 COMPLIANT

Brings increased data security with FIPS-compliant cryptography enabled on cameras {}^1\!\!\!\!\!\!



WIDE AREA COVERAGE

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

¹ Optional purchase of FIPS Level 1 camera license.



MOTOROLA SOLUTIONS

SPECIFICATIONS

IMAGE PERFORMANCE		2MP WITH 36X ZOOM 2MP WITH 40X ZOOM			
Image Sensor		1/2.8" progressive scan CMOS			
Active Pixels (H x V)		1920 (H) × 1080 (V)	1937 (H) × 1097 (V)		
Imaging Area (H x V)		4.8 mm × 2.7 mm; 0.189" × 0.106"			
Minimum Illuminat	tion	0.1 lux (F/1.6) in color mode; 0.03 lux (F/1.6) in monochrome	0.03 lux (F/1.6) in color mode; 0.02 lux (F/1.6) in monochrome		
Dynamic Range		120 dB			
Image Rate		Up to 60 fps			
Aspect Ratio (Res	olution Scaling)	Down to (16:9) 384×216 or (5:4) 320×256			
3D Noise Reductio	on Filter	Yes			
LENS		2MP WITH 36X Z00M	2MP WITH 40X Z00M		
Lens		4.3 mm to 129 mm, F/1.6 – F/4.7, autofocus	4.25 mm to 170 mm, F/1.6 – F/4.95, autofocus		
Angle of View	Horizontal	63.7° – 1.9°	66.35 ° – 1.9 °		
Zoom		36x (with image stabilization off), 30x (with image stabilization on)	40x		
IMAGE CONTROL		2MP WITH 36X Z00M 2MP WITH 40X Z00M			
Video Compressio	n	H.264 HDSM SmartCodec, H.265 HDSM SmartCodec, Motion	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)	Automatic, Manual (1/30 to 1/30,000 sec)		
Iris Control		Automatic, Open, Closed			
Day/Night Control		Automatic, Manual			
Flicker Control		60 Hz, 50 Hz			
White Balance		Automatic, Manual			
Backlight Compen	isation	On/Off			
Privacy Zones		3D, up to 64 zones			
Presets		500 named presets			
Tours		10 named tours			
Audio Compression Method		G.711, Opus			
Digital Zoom		Up to 100x when used with ACC TM Client			
Electronic Image Stabilization		Yes			
Digital Defog		Adjustable/Off	Adjustable/Off		

NETWORK		
letwork 100BASE-TX		
Cabling Type	CAT5e	
Connector	RJ-45	
ONVIF	ONVIF compliance version 1.02, 2.00, Profile S, Profile T, Profile G, and Profile M (www.onfiv.org)	
Security Password protection, HTTPS encryption, digest authentication, WS authentication, user access authentication, FIPS 140-2 L1 (with optional camera license), FIPS 140-2 L3 (with optional access)		
Protocol IPv6, IPv4, HTTP, HTTPS, SOAP, DNS, NTP, RTSP, RTCP, RTP, TCP, UDP, IGMPv2, ICMP, DHCP, Zeroconf,		
Streaming Protocols 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 UPoE, 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		

CERTIFICATION	NS	
Certifications/Approvals		UL, cUL, CE, ROHS, RCM, EAC, KC, BIS, UKCA, NOM
Safety		UL 62368-1, CSA 62368-1, IEC/EN 62368-1
Environmental	In-Ceiling	IEC 62262 IK10 Impact Rating, UL 2043
	Pendant	IEC 62262 IK10 Impact Rating, UL/CSA/IEC 60950-22, IEC 60529 IP66 and IP67 Weather Rating, NEMA 4X
Electromagnetic Emissions		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

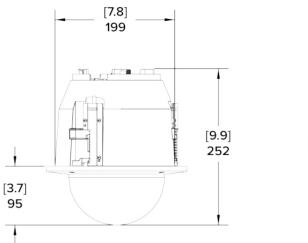
Objects in Area	The event is triggered when the selected object type moves into the region of interest.		
Object Loitering	The event is triggered when the selected object type moves into the region of interest and then stays for an extended amount of time.		
Objects Crossing Beam	The event is triggered 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.		
AUTO-TRACK OBJECTS IN			
Auto-track Objects in Area	The event is triggered when the selected object type moves into the region of interest defined at the home position. The camera will automatically reposition to track the object, returning to the preset home position once object is lost.		
SUPPORTED CLASSIFIED	OBJECT TYPES		
Object Types in Outdoor Mode	Vehicle, sub-types: Car, Truck, Bicycle, Motorcycle, Bus Person		
Object Types in Indoor Mode	Person		
TEACH BY EXAMPLE			
Teach By Example	Yes, when used with Avigilon Control Center™		
	TER (ACC) VERSIONS SUPPORTED FEATURES		
AVIGILON CONTROL CEN			
ACC Version 6.14.12 or higher All supported analytic events with two types of classified objects: person or vehicle. Appearance search when paired appropriate server hardware. Auto-tracking is not supported. H.265 supported.			
CC Version 7.2 or higher* All supported analytic events with people and vehicles and all vehicle sub-types as classified objects. Appearance search vehicles and all vehicle sub-types as classified objects. Appearance search vehicles and all vehicle sub-types as classified objects. Appearance search vehicles and all vehicle sub-types as classified objects. Appearance search vehicles are vehicles and all vehicle sub-types as classified objects. Appearance search vehicles are vehicles and all vehicle sub-types as classified objects. Appearance search vehicles are vehicles a			

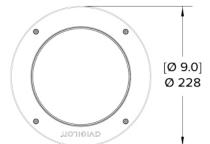
* Auto-tracking requires ACC 7.14.14 or higher to configure.

OUTLINE DIMENSIONS

IN-CEILING PTZ DOME CAMERA

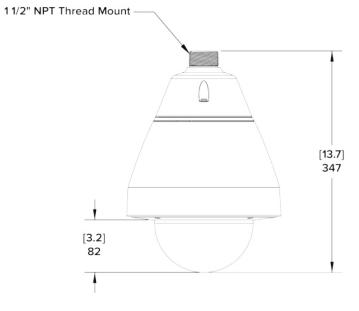
(H5A-PTZ-DC)

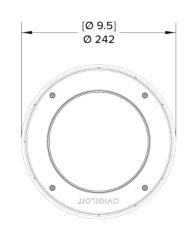




PENDANT PTZ DOME CAMERA (H5A-PTZ-DP) WITH NPT MOUNT

[X.X]	INCHES	
Х	ММ	

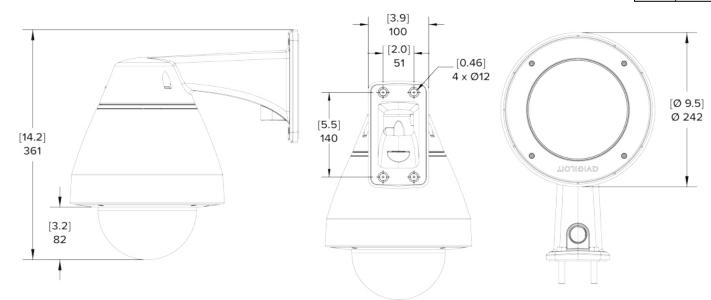




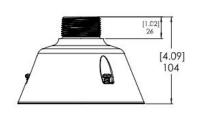
[X.X] INCHES X MM

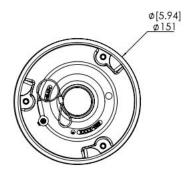
(H5A-PTZ-DP) WITH WALL ARM

[X.X]	INCHES	
Х	MM	

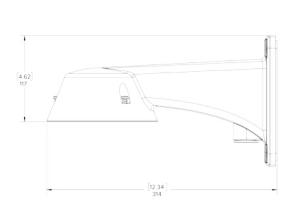


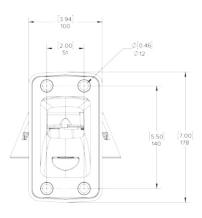
NPT MOUNT (IRPTZ-MNT-NPTA1)





WALL MOUNT (IRPTZ-MNT-WALL1)





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INCHES

MM

INCHES

MM

[X.X]

Х

[X.X]

Х

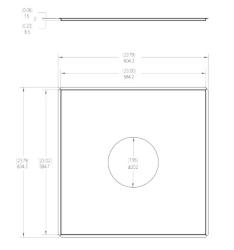
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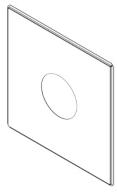
9.37 238

0

METAL CEILING PANEL (PTZMH-DC-CPNL1)

[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	\checkmark	\checkmark	4.3 – 129 mm	36x*	\checkmark	\checkmark
2.0C-H5A-PTZ-DC36	2.0	True WDR	\checkmark	\checkmark	4.3 – 129 mm	36x*		\checkmark
2.0C-H5A-PTZ-DP40	2.0	True WDR	\checkmark	\checkmark	4.25 -170 mm	40x	\checkmark	\checkmark
2.0C-H5A-PTZ-DC40	2.0	True WDR	\checkmark	\checkmark	4.25 - 170 mm	40x		\checkmark

*Up to 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	\checkmark		NPT Pendant Adapter	
IRPTZ-MNT-WALL1	√		Wall Arm Mount	
PLMT-1001	√		Pole Mounting Bracket, compatible with IRPTZ-MNT-WALL1	
CRNMT-1001	√		Corner Mounting Bracket, compatible with IRPTZ-MNT-WALL1	
PTZMH-DC-CPNL1		\checkmark	Metal Ceiling Panel for In-Ceiling Installation	
PTZH5A-CLER1	\checkmark	\checkmark	Clear Bubble Assembly - Replacement	
PTZH5A-SM0K1	\checkmark	\checkmark	Smoked Bubble Assembly - Replacement	
POE-INJ-BT-60W-NA	\checkmark	\checkmark	Gigabit 802.3bt 60W PoE Injector, single port	
POE-INJ2-PLUS-NA	IJ2-PLUS-NA ✓		30W PoE+ Injector. Injector operational temperature range is -20°C (-4°F) to 40°C (10 NA/EU/UK/AU options available	
PTZ-ACCS-IC-RETRO		\checkmark	H4 In-Ceiling PTZ audio retrofit kit	
H5PTZ-ACCS-CABL1	\checkmark		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

SUPPORT

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





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