

AVIGILON™ H6A PTZ Camera

Physical security threats move fast. We help you move faster.

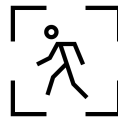


Whether it's detecting security breaches, monitoring operational workflows or capturing vital evidence, the Avigilon H6A Pan, Tilt and Zoom (PTZ) camera empowers you with an unparalleled level of situational awareness. It offers intuitive controls to revolutionize the way you oversee your security operations. Put public safety at the forefront with this AI-powered camera that is designed to effectively cover large areas with expansive 360-degree views. Available in 2 and 4 MP, it captures fast-moving objects with operator precision and offers up to 30x zoom for long range details in all lighting conditions.



AdaptAI Video Analytics

Be a step ahead with the camera's ability to classify people and vehicles and alert you of potentially critical events, such as a person crawling along a fence. It can distinguish between various trucks such as a van, pick-up truck or large truck with analytics event support.



Auto-Tracking³

Automatically follow and zoom in on an analytic-detected person or vehicle for greater detail without operator intervention. Free up your time to focus on other tasks while ensuring critical moments never get missed.



Audio Analytics¹ & Recording

Expand your awareness with alerts for gunshots², breaking glass, fire alarms and more. Review video from the triggering camera to investigate the sound. Have the option to record audio when you need it.



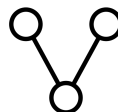
Outdoor-Ready Design

Protects against impact, water, windblown dust and a degree of corrosion with IK10, IP66/67, NEMA Type 4X and TS2 ratings.



Secure & Compliant

Trust that your data is well-protected with advanced cybersecurity features such as an onboard FIPS 140-2 level 3 compliant TPM and Secure Boot.



ONVIF® Compliant

Easily integrate with existing ONVIF infrastructures via Profile S and T. Search, playback and retrieve edge recordings with Profile G. Enable cross-functionality with third-party analytics using Profile M.

¹ Audio analytics to be available post-launch via a firmware upgrade.

² Separate license required.

³ Based on home position at launch.

ONVIF is a trademark of Onvif, Inc.

Specifications

Image Performance	2 MP	4 MP
Image Sensor	1/1.8" progressive scan CMOS	
Active Pixels (H x V)	1920 (H) x 1080 (V)	2560 (H) x 1440 (V)
Aspect Ratio	16:9	
Dynamic Range	80 dB	
Dynamic Range (WDR On, Measured According to IEC 62676 Part 5)	Up to 122 dB (dual exposure, 30 fps)	
Minimum Illumination:	0.1 lux in color mode 0.06 lux in mono mode	
Camera Operating Mode	Full Feature / No Video Analytics / High Framerate	
Max Frame Rate	(50 Hz/60 Hz): 50 fps/60 fps	(50 Hz/60 Hz): 25 fps/30 fps
Streaming Resolutions: Primary (H x V)	1920 (H) x 1080 (V)	2560 (H) x 1440 (V)
Streaming Resolutions: Secondary (H x V)	1280 x 720; 768 x 432; 640 x 360; 512 x 288;	1920 x 1080; 1280 x 720; 768 x 432; 640 x 360; 512 x 288;
Streaming Resolutions: Tertiary (H x V)	1280 x 720; 768 x 432; 640 x 360; 512 x 288; 384 x 216;	1920 x 1080; 1280 x 720; 768 x 432; 640 x 360; 512 x 288; 384 x 216;
Streaming Resolutions: Quaternary (H x V)	640 x 360; 512 x 288	
Bandwidth Management	HDSM SmartCodec technology; Idle scene mode	

Lens	2 MP	4 MP
Lens	6.5 mm to 162.5 mm, F/1.6 - F/4.8	
Angle of View (Horizontal x Vertical), Wide	58.1 x 34.8	
Angle of View (Horizontal x Vertical), Tele	2.3 x 1.4	
Zoom	30X Enhanced Optical	
Lens Control	Remote Zoom and Focus, Autofocus, IR Cut Filter, Auto Iris	

Image Control	2 MP	4 MP
Image Compression Method	H.264 HDSM SmartCodec, H.265 HDSM SmartCodec, Motion JPEG	
Streaming	Multi-stream (four streams) H.264, Multi-stream H.265, Motion JPEG	
Electronic Shutter Control	Automatic, Manual (1/1 to 1/10,000 sec)	
Day/Night Control	Automatic, Manual	
Flicker Control	ON/OFF (Automatically Adjusts for 50/60 Hz)	
Iris Control	Automatic	
White Balance	Automatic, Manual	
Backlight Compensation	ON/OFF	
Privacy Zones	Up to 64 Zones	
Digital Zoom	12x	
Electronic Image Stabilization	Yes	
Digital Defog	Yes	
P/T Presets	300 configurable	
P/T Tours	100 configurable	
3D Noise Reduction Filter	Yes	

Network	
Network	100BASE-TX, 1000BASE-T with Auto MDI/MDI-X speed
Cabling Type	CAT5e minimum
Connector	RJ-45
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), onboard FIPS 140-2 L3 certified TPM
Protocol	IPv6, IPv4, HTTP, HTTPS, SOAP, DNS, NTP, RTSP, RTCP, RTP, TCP, UDP, IGMP, ICMP, DHCP, Zeroconf, ARP, HSTS
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
Secure Boot	Yes

Peripherals	
Onboard Storage	2 × microSD/microSDHC/microSDXC slots - video speed class card required. Class V10 or better recommended.
Microphone	Built-in microphone array for audio analytics, for certain variants.

Auxiliary I/O	
Audio Input/Output	Full Duplex Line level input and output
Audio Compression Method	G.711 PCM 8 kHz, Opus
External I/O Terminals	3x Alarm In (3.5VDC/3.5mA MAX), 1x NO Relay Out (32VDC/150mA MAX), 1x Digital Out (13VDC MAX), 1 x 12VDC source (11~13VDC/140 mA MAX)

Mechanical	In-Ceiling Mount	Pendant Mount
Dimensions (LxWxH), Camera Only (In Shipping Box)	264 mm × 225 mm x 225 mm (280 mm x 275 mm x 530 mm); 10.4 in × 8.8 in x 8.8 in (11 in x 10.8 in x 20.9 in)	303 mm × 242 mm x 242 mm (280 mm x 275 mm x 530 mm); 11.9 in × 9.5 in x 9.5 in (11 in x 10.8 in x 20.9 in)
Weight, Camera Only (In Shipping Box)	3.59 kg (4.79 kg); 7.91 lb. (10.56 lb.)	4.25 kg (5.45 kg); 9.37 lb. (12.02 lb.)
Maximum Ceiling Thickness	1.75" (44.5 mm)	N/A
Dome Bubble	Polycarbonate	
Body	Polycarbonate and aluminum	
Housing	Recessed mount	Pendant mount
Finish	Plastic injection mold close to RAL9002 and Black; Powdercoat Gray, AKZO Nobel JP301H; Sand Grain Texture with Satin Sheen	
Pan Range	360° continuous	
Tilt Range	95°	
Pan Speed	0.05-500°/sec w/IEEE 802.3at Type 2, Class 4 0.05-750°/sec w/IEEE 802.3bt Type 3, Class 6 0.05-900°/sec w/IEEE 802.3bt Type 4, Class 8	
Tilt Speed	0.05-160°/sec w/IEEE 802.3at Type 2, Class 4 0.05-250°/sec w/IEEE 802.3bt Type 3, Class 6 0.05-300°/sec w/IEEE 802.3bt Type 4, Class 8	
Preset Accuracy	0.1°	

Electrical	In-Ceiling Mount	Pendant Mount
Power Source, PoE	IEEE 802.3 at Type 2, Class 4 compliant	IEEE 802.3at Type 2, Class 4 compliant* IEEE802.3bt Type 3, Class 6 compliant* IEEE802.3bt Type 4, Class 8 compliant*
PoE Power Consumption	25W Maximum	70W Maximum
Power Source, Aux	Aux 24 VDC/VAC +/- 10%	

Electrical	In-Ceiling Mount	Pendant Mount
AUX Power Consumption	35W (DC source), 55VA (AC source) Maximum	70W (DC source), 85VA (AC source) Maximum
RTC Backup Battery	3V manganese lithium	
Auxillary Power Connector	2-Pin Screw terminal removable plug	
Memory	4GB, RAM, 4GB Flash	
Redundant Power	Seamless failover between PoE and Aux and back without interrupt in camera operation	

*Using anything less than a Type 4, Class 8 PSE will result in reduced environmental and pan/tilt speed specifications.

Environmental	In-Ceiling Mount	Pendant Mount
Operating Temperature	-10 °C to +50 °C (14 °F to 122 °F)	-10 °C to +60 °C (14 °F to 140 °F), w/ IEEE 802.3at Type 2, Class 4 -40 °C to +60 °C (-40 °F to 140 °F), w/ IEE802.3bt Type 3, Class 6 -51 °C to +60 °C (-59.8 °F to 140 °F), w/ IEE802.3bt Type 4, Class 8
Boot Temperature*	-10 °C to +50 °C (14 °F to 122 °F)	-10 °C to +60 °C (14 °F to 140 °F), w/ IEEE 802.3at Type 2, Class 4 -25 °C to +60 °C (-13 °F to 140 °F), w/ IEE802.3bt Type 3, Class 6 -40 °C to +60 °C (-40 °F to 140 °F), w/ IEE802.3bt Type 4, Class 8
Absolute Maximum Temperature	74 °C (165 °F) per NEMA TS2 (Temp.) para 2.2.7.2 - 2.2.7.7	
Storage Temperature	-10 °C to +70 °C (14 °F to 158 °F)	
Operating Humidity	10 - 90% non-condensing	10 - 100%

*Discovery/Streaming expected within 5 minutes, Full Operation expected within 60 minutes.

Certifications	In-Ceiling Mount	Pendant Mount
Certifications/Approvals	UL, cUL, CE, ROHS, RCM, UKCA, NOM, KC, BIS	
Safety Standards	UL 62368-1, CSA 62368-1, IEC/EN 62368-1	
	UL 2043 (Plenum)	N/A
Environmental Standards/Ratings	Not applicable	IEC 60529 IP66, IP67 rating IEC/EN 62262 Impact IK10 (Enclosure), IK09 (Bubble) IEC/EN 60068-2-6 Product Vibration IEC/EN 60068-2-27 Product Shock Type 4X
Electromagnetic Emissions Standards	FCC Part 15 Subpart B (Class A) ICES-003 (Class A) EN 55032 (Class A) EN IEC 61000-6-8 (Class A) EN 61000-3-2 EN 61000-3-3	
Electromagnetic Immunity Standards	EN 55035 EN 61000-6-1 EN 61000-6-2 EN 50121-4 EN 50130-4	
NEMA TS2	N/A	NEMA TS2 paragraph 2.2.7-2.2.9
Warranty	Limited 5 Year Warranty	

Supported Analytics Events*

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.
Smart Motion Rule	Events are sent for person and vehicle present, against default-unchangeable parameters, but can be searched by ACC.
Tamper Detection	The event is triggered when the scene unexpectedly changes.
Motion Detection	Pixel motion: Selectable sensitivity and threshold. Classified object detection.

* Analytics capabilities, including detection range, may vary by camera line. Please consult the Avigilon Self-Learning Video Analytics Design Guide for details specific to the H6APTZ Camera Line.

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™
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Avigilon Control Center (ACC) Versions Supported Features

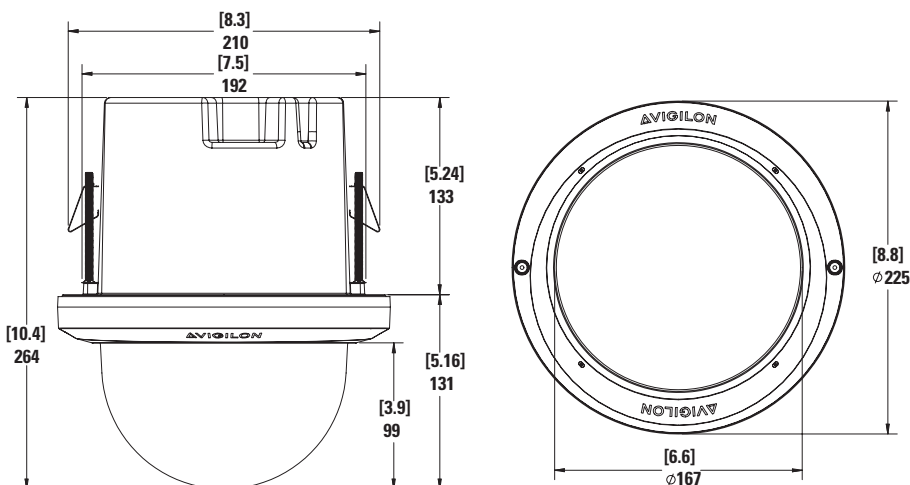
ACC Version 7.2 or higher*	All supported analytic events with people and vehicles and all vehicle sub-types as classified objects. Appearance search when paired with appropriate server hardware.
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* Auto-tracking requires ACC 7.14.14 or higher to configure.

Outline Dimensions

In-Ceiling PTZ Dome Camera (H6A-PTZ-DC)

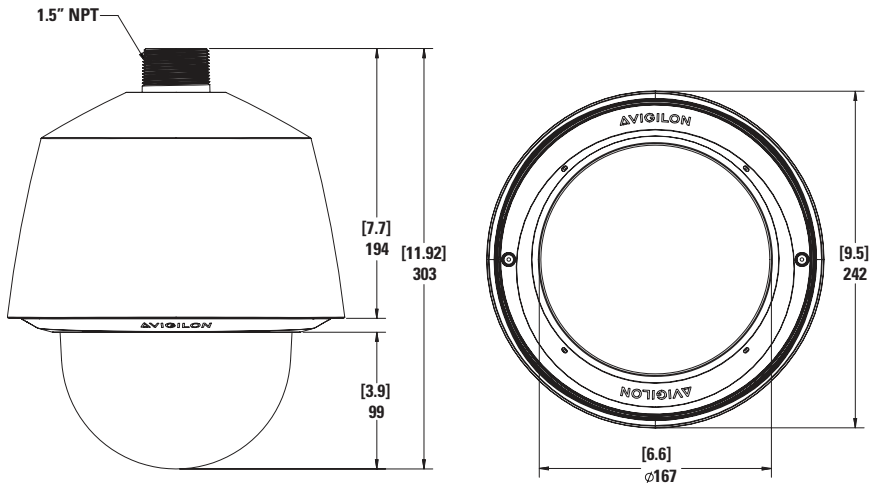
[X.X]	INCHES
X	MM



Pendant PTZ Dome Camera

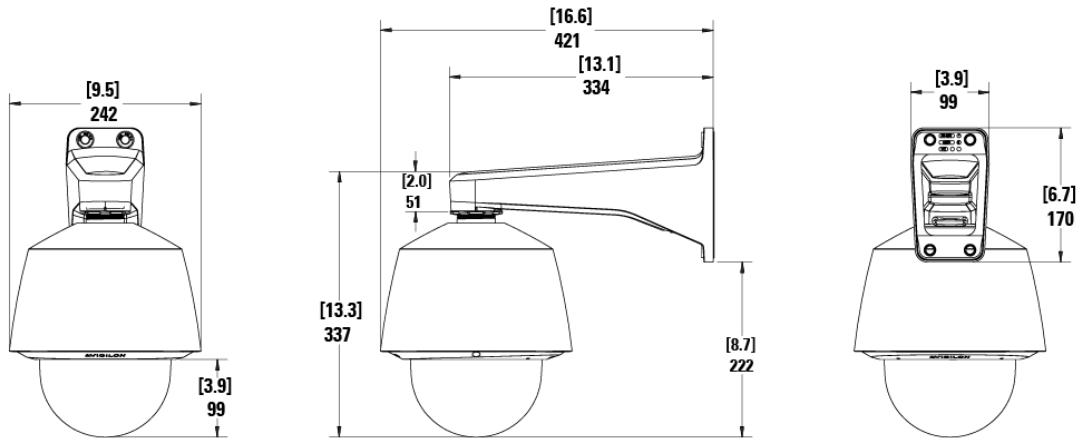
(H6A-PTZ-DP)

[X.X]	INCHES
X	MM



(H6A-PTZ-DP) WITH WALL ARM

[X.X]	INCHES
X	MM



PTZ DOME CAMERAS

	Description	Resolution	True WDR	Microphone	IP66/67
2.0C-H6A-PTZ-DCM30	CAM, H6A PTZ, In-Ceiling, 2MP, 30X, Mic	2.0	✓	✓	X
2.0C-H6A-PTZ-DPM30	CAM, H6A PTZ, Pendant, 2MP, 30X, Mic	2.0	✓	✓	✓
4.0C-H6A-PTZ-DCM30	CAM, H6A PTZ, In-Ceiling, 4MP, 30X, Mic	4.0	✓	✓	X
4.0C-H6A-PTZ-DPM30	CAM, H6A PTZ, Pendant, 4MP, 30X, Mic	4.0	✓	✓	✓
2.0C-H6A-PTZ-DC30	CAM, H6A PTZ, In-Ceiling, 2MP, 30X	2.0	✓	X	X
2.0C-H6A-PTZ-DP30	CAM, H6A PTZ, Pendant, 2MP, 30X	2.0	✓	X	✓

PTZ CAMERA ACCESSORIES

	Description
WLMT-1031	Mount, Pendant Arm, 30 cm Long, 1.5 NPT
WLMT-1021	Pendant wall arm, 1.5" NPT female, 20 cm (7.8") long
PLMT-1001	Pole mount adapter
CRNMT-1001	Corner mount adapter
CAM-FIPS	Camera license required to enable FIPS 140-2 cryptographic modules

Support

Learn more and find additional documentation at [avigilon.com](https://www.avigilon.com) or email sales@avigilon.com for specific product support.



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