# AVIGILON<sup>®</sup> H6A PTZ Camera

Physical security threats move fast. We help you move fast<mark>er.</mark>

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 and 2 and 4 MP resolution options. It captures fast-moving objects with operator precision and offers up to 30x zoom for long range details in all lighting conditions.



#### AI-Powered 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.



#### Powerful Zoom & Focus

No matter the lighting condition or how vast your site is, equip yourself with long-range detail using a camera that can deliver 30x zoom and can capture fast-moving objects with operator precision.



#### 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.



### Auto-Tracking1

Automatically follow and zoom in on an analyticdetected 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.



### Outdoor-Ready Design

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



#### 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 thirdparty analytics using Profile M.

<sup>1</sup> Based on home position at launch. To be available post-launch via a firmware upgrade

ONVIF is a trademark of Onvif, Inc.



# Specifications

Image Sensor     11.8" progressive scan CMOS       Active Pixels (H × V)     1920 (H) × 1080 (V)     2560 (H) × 1440 (V)       Agenct Ratio     16:9       Dynamic Range (VDR On, Measured According to IEC 2676 Part IS)     Up to 122 dB (dual exposure, 30 fps)       Minimum Illumination:     0.1 tw in color mode 0.05 tw in more mode       Camera Operating Mode     Full Feature / No Video Analytics / High Framerate       Max Frame Rate (SD H/260 H2): SD (ps60 fps     (SD H/260 H2): SD (ps60 fps       Streaming Resolutions:     1920 (H) × 1080 (V)     2560 (H) × 1440 (V)       Streaming Resolutions:     1920 (H) × 1080 (V)     2560 (H) × 1440 (V)       Streaming Resolutions:     1280 x 720: 768 x 432; 640 x 300; 512 x 288.     1920 x 1080; 1280 x 720; 768 x 432; 640 x 300; 512 x 288.       Streaming Resolutions:     1280 x 720: 768 x 432; 640 x 300; 512 x 288.     1920 x 1080; 1280 x 720; 768 x 432; 640 x 300; 512 x 288.       Streaming Resolutions:     1280 x 720; 768 x 432; 640 x 300; 512 x 288.     1920 x 1080; 1280 x 720; 768 x 432; 640 x 300; 512 x 288.       Streaming Resolutions:     400 x 300; 512 x 288.     1920 x 1080; 1280 x 720; 768 x 432; 640 x 300; 512 x 288.       Streaming Resolutions:     1280 x 720; 768 x 432; 640 x 300; 512 x 288.     1920 x 1080; 1280 x 720; 768 x 432; 640 x 300; 512 x 288.	Image Performance	2 MP	4 MP
Active Pixels (H x V)     1920 (H) × 1080 (V)     2560 (H) × 1440 (V)       Aspect Ratio     16.9       Dynamic Range     80 dB       Dynamic Range (WDR On, Measured According to IIC 62676 Part 5)     Up to 122 dB (dual exposure, 30 (ps)       Minimum Illumination:     0.1 lux in color mode 0.06 lux in mone mode     (50 Hz/50 Hz): 50 fp/80 (bp s       Karrame Rate     (50 Hz/50 Hz): 50 fp/80 (bp s     (50 Hz/50 Hz): 25 fp/81 00 ps       Streaming Resolutions:     1280 x 720, 788 x 432; 640 x 360, 512 x 288.     1920 x 1080; 1280 x 720; 788 x 432; 640 x 360, 512 x 288.       Streaming Resolutions:     1280 x 720, 788 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:     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:     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:     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:     65 mm to 182 5 mm, F/1.6 -F/4.8     1920 x 1080; 1280 x 720; 768 x 432; 640 x 360; 512 x 288.       Angle of View (Horizontal x Vertical),     83 x 34.8     23 x 1.4     20 mt			
Dynamic Range     80.48       Dynamic Range (WDR On, Measured) According to IIC-62376 Part 5)     Up to 122 dB (dual exposure, 30 fps)       Minimum Illumination:     0.1 Iw in nother mode 0.06 lisk in mone mode     Common mode       Camera Operating Mode     Full Foature / No Video Analytics / High Framerate     (60 Hz/60 Hz): 25 fps/30 fps       Streaming Resolutions:     1920 (H) x 1080 (V)     2560 (H) x 1440 (V)       Streaming Resolutions:     1920 (H) x 1080 (V)     2560 (H) x 1440 (V)       Streaming Resolutions:     1920 (H) x 1080 (V)     2560 (H) x 1440 (V)       Streaming Resolutions:     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:     640 x 360; 512 x 288;     1920 x 1080; 1280 x 720; 768 x 432; 640 x 360; 512 x 288;       Bandwidth Management     HDSM SmartCodec technology; Idle scene mode     1280 x 720; 768 x 432; 640 x 360; 512 x 288;       Canter any (H x Y)     58.1 x 34.8     58.1 x 34.8     1400 Yein (Horizontal x Vertical);       Streaming Resolutions:     6.5 mm to 162.5 mm, F/1.6 - F/4.8     58.1 x 34.8     1400 Yein (Horizontal x Vertical);       Canter All Yein (Horizontal x Vertical);     2.3 x 1.4     23 x 1.4     123 com       Zoom	Active Pixels (H x V)		
Dynamic Range (WDR On, Measured According to IEC 52676 Part 5)   Up to 122 dB (dual exposure, 30 (ps)     Minimum Illumination:   0.1 lux in color mode     Camera Operating Mode   Full Feature / No Video Analytics / High Framerate     Mix Frame Rate   (50 Hz/06 Hz): 50 (ps/60 (ps)     Vis Karman Rate   (50 Hz/06 Hz): 50 (ps/60 (ps)     Streaming Resolutions:   1920 (H) x 1080 (V)     Primary (H x V)   1280 x 720; 768 x 432; 640 x 360; 512 x 288;     Streaming Resolutions:   1280 x 720; 768 x 432; 640 x 360; 512 x 288;     Streaming Resolutions:   640 x 360; 512 x 288     Streaming Resolutions:   640 x 360; 512 x 288     Camera Optimic Resolutions:   1280 x 720; 768 x 432; 640 x 360; 512 x 288;     Streaming Resolutions:   640 x 360; 512 x 288     Camera Optimic Resolutions:   1280 x 720; 768 x 432; 640 x 360; 512 x 288;     Streaming Resolutions:   640 x 360; 512 x 288     Camera Optimic Resolutions:   1280 x 720; 768 x 432; 640 x 360; 512 x 288;     Streaming Resolutions:   640 x 360; 512 x 288     Camera Optimic Resolutions:   1280 x 720; 768 x 432; 640 x 360; 512 x 288;     Streaming Resolutions:   65 mm to 162.5 mm; F/1.6 -F/4.8     Angle of View (Horizontal x Vertical),   2.3 x 1.4 <tr< td=""><td>Aspect Ratio</td><td colspan="2">16:9</td></tr<>	Aspect Ratio	16:9	
According to IEC 62676 Part 5)   Ob 17.2.0 III (bit dipublicity, 50 (ps))     Minimum Illumination:   0.1 fax in noise mode     0.6 flux in mote mode   0.6 flux in mote mode     0.6 flux in mote mode   (50 Hz/60 Hz): 50 (ps/60 fps)   (50 Hz/60 Hz): 25 (ps/30 fps)     Streaming Resolutions:   1920 x 1080, 122 0x 720, 768 x 432; 640 x 360, 512 x 288;   2560 (H) x 1440 (V)     Streaming Resolutions:   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:   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:   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:   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:   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:   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:   640 x 360; 512 x 288   1920 x 1080; 1280 x 720; 768 x 432; 640 x 360; 512 x 288;     Streaming Resolutions:   53, 1 x 34, 8   1284   140	Dynamic Range	80 dB	
Minimum nummation:   0.06 lux in mono mode     Camera Operating Mode   Full Feature / No Video Analytics / High Framerate     Minimum Resolutions:   1920 (H) x 1080 (V)   2560 (H) x 1440 (V)     Primary (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:   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:   1280 x 720; 768 x 432; 640 x 360; 512 x 288;   134 x 216;     Streaming Resolutions:   1280 x 720; 768 x 432; 640 x 360; 512 x 288;   134 x 216;     Streaming Resolutions:   1280 x 720; 768 x 432; 640 x 360; 512 x 288;   134 x 216;     Streaming Resolutions:   240 x 360; 512 x 288   1392 x 1080; 1280 x 720; 768 x 432; 640 x 360; 512 x 288;     Streaming Resolutions:   6.5 mm to 162.5 mm, F/1.6 - F/4.8   1920 x 1080; 1280 x 720; 768 x 432; 640 x 360; 512 x 288;     Lens   6.5 mm to 162.5 mm, F/1.6 - F/4.8   1920 x 1080; 1280 x 720; 768 x 432; 640 x 360; 512 x 288;     Angle of View (Horizontal x Vertica));   2.3 x 1.4   200m     Zoom   300 Enhanced Optical   1920 x 1080; 1280 x 720; 768 x 432; 640 x 360; 512 x 288;     Image Control   PMP   4MP     Mage Compression M		Up to 122 dB (dual exposure, 30 fps)	
Max Frame Rate   (50 Hz/60 Hz): 50 fps/60 fps   (50 Hz/60 Hz): 25 fps/30 fps     Streaming Resolutions:   1920 (H) x 1080 (V)   2550 (H) x 1440 (V)     Streaming Resolutions:   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:   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:   040 x 300; 512 x 288   1920 x 1080; 1280 x 720; 768 x 432; 640 x 360; 512 x 288;     Streaming Resolutions:   040 x 300; 512 x 288   1920 x 1080; 1280 x 720; 768 x 432; 640 x 360; 512 x 288;     Bandwidth Management   HDSM SmartCodec technology: Idle scene mode   1820 x 1080; 1280 x 720; 768 x 432; 640 x 360; 512 x 288;     Lens   0.5 mm to 162.5 mm, F/1.6 - F/4.8   Angle of View (Horizontal x Vertical), vide   58.1 x 34.8     Angle of View (Horizontal x Vertical), vide   58.1 x 34.8   12.3 x 1.4   12.2 com     Zoom   30X Enhanced Optical   1.2 s 1.4   1.2 s 1.4   1.2 s 1.4     Zoom   30X Enhanced Optical   1.2 s 1.4   1.2 s 1.4   1.2 s 1.4     Zoom   30X Enhanced I/ 1.2 s 1.4 k 1	Minimum Illumination:		
Streaming Resolutions:   1920 (H) × 1080 (V)   2560 (H) × 1440 (V)     Streaming Resolutions:   1280 × 720; 768 × 432; 640 × 360; 512 × 288;   1920 × 1080; 1280 × 720; 768 × 432; 640 × 360; 512 × 288;     Streaming Resolutions:   1280 × 720; 768 × 432; 640 × 360; 512 × 288;   1920 × 1080; 1280 × 720; 768 × 432; 640 × 360; 512 × 288;     Streaming Resolutions:   1280 × 720; 768 × 432; 640 × 360; 512 × 288;   1920 × 1080; 1280 × 720; 768 × 432; 640 × 360; 512 × 288;     Streaming Resolutions:   640 × 360; 512 × 288   1920 × 1080; 1280 × 720; 768 × 432; 640 × 360; 512 × 288;     Streaming Resolutions:   640 × 360; 512 × 288   1920 × 1080; 1280 × 720; 768 × 432; 640 × 360; 512 × 288;     Streaming Resolutions:   640 × 360; 512 × 288   1920 × 1080; 1280 × 720; 768 × 432; 640 × 360; 512 × 288;     Streaming Resolutions:   640 × 360; 512 × 288   1920 × 1080; 1280 × 720; 768 × 432; 640 × 360; 512 × 288;     Streaming Resolutions:   640 × 360; 512 × 288   1920 × 1080; 1280 × 720; 768 × 432; 640 × 360; 512 × 288;     Streaming Resolutions:   640 × 360; 512 × 288   1920 × 1080; 1280 × 720; 768 × 432; 640 × 360; 512 × 288;     Streaming Resolutions:   030 × 518 × 288   140 P     Lens   6.5 mm to 162.5 mm, F/1.8 - F/4.8   140 P     Inage Control   2.3 x 1.4   2     Zoom	Camera Operating Mode	Full Feature / No Video Analytics / High Framera	te
Primary (H × V)     Primary (H × V)       Streaming Resolutions: Secondary (H × V)     1280 × 720; 768 × 432; 640 × 360; 512 × 288;     1920 × 1080; 1280 × 720; 768 × 432; 640 × 360; 512 × 288;       Streaming Resolutions: Tertiary (H × V)     1280 × 720; 768 × 432; 640 × 360; 512 × 288;     1920 × 1080; 1280 × 720; 768 × 432; 640 × 360; 512 × 288;       Bandwidth Management     HDSM SmartCodec technology; Idle scene mode     184 × 216;       Lens     2 MP     4 MP       Lens     6.5 mm to 162.5 mm, F/1.8 - F/4.8       Angle of View (Horizontal x Vertical), Wide     58.1 × 34.8       Angle of View (Horizontal x Vertical), Vide     2.3 x 1.4       Zoorn     30X Enhanced Optical       Lens Control     Remote Zoorn and Focus, Autofocus, IR Cut Filter, Auto Iris       Image Control     2 MP     4 MP       Image Control     Automatic, Manual       Isrcaming     Multi-stream (four streams) H.264, Multi-stream H.265, Motion JPEG       Streaming     Multi-stream (four streams) H.264, Multi-stream H.265, Motion JPEG       Electronic Shuter Control     Automatic, Manual       Hicker Control     Automatic, Manual       Hicker Control     Automatic, Manual       Backlight Compensation     ON/OFF </td <td>Max Frame Rate</td> <td>(50 Hz/60 Hz): 50 fps/60 fps</td> <td>(50 Hz/60 Hz): 25 fps/30 fps</td>	Max Frame Rate	(50 Hz/60 Hz): 50 fps/60 fps	(50 Hz/60 Hz): 25 fps/30 fps
Secondary (H x V)   International streaming Resolutions:   1280 x 720; 768 x 432; 640 x 360; 512 x 288; 384 x 216; 384 x 216;     Streaming Resolutions:   640 x 360; 512 x 288   1920 x 1080; 1280 x 720; 768 x 432; 640 x 360; 512 x 288; 384 x 216;     Bandwidth Management   HDSM SmartCodec technology; Idle scene mode   International streaming Resolutions:     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), Vide   58.1 x 34.8     Zoom   30X Enhanced Optical     Lens Control   Remote Zoom and Focus, Autofocus, IR Cut Filter, Auto Iris     Image Control   2 MP   4 MP     Mage of View (Horizontal x Vertical), relations:   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     Mage of View (Horizontal x Vertical), relation insity, Multi-stream (Hour streams) H.264, MULT, HOURO, See)   30X Enhanced Optical     Lens Control   Automatic, Manual (11 to 11/0.000 sec)   30X Enhanced Optical     Lis Control   Automatic, Manual (11 to 11/0.000 sec)   30X Enhanced     Backlight Control   Automatic, Manual 4   FIT	0	1920 (H) x 1080 (V)	2560 (H) x 1440 (V)
Tertiary (H x V)   384 x 216;   384 x 218;     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 Control   Automatic, Manual (1/1 to 1/10,000 sec)   Deptilit Ontrol     Dyn/light Control   Automatic, Manual   Electronic Shutter Control   Automatic, Manual     Flicker Control   Automatic, Manual   Electronic Control   Automatic, Manual     White Balance   Automatic, Manual   Electronic Image Stabilization   I/X     Up to 64 Zones   Up to 64 Zones   Up to 64 Zones		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;
Quatemary (H x V)   HDSM SmartCodec technology; Idle scene mode     Lens   HDSM SmartCodec technology; Idle scene mode     Lens   6.5 mm to 162.5 mm, F/1.6 - F/4.8     Angle of View (Horizontal x Vertical); Wide   S8.1 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 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)     Irris Control   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	5		
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 Control     Automatic, Manual (1/1 to 1/10,000 sec)     0       Day/Night Control     Automatic, Manual     1/1 to 1/10,000 sec)     0       Day/Night Control     Automatic, Manual     1/1 to 1/10,000 sec)     1/1 to 1/10,000 sec)       Day/Night Control     Automatic, Manual     1/1 to 1/10,000 sec)     1/1 to 1/10,000 sec)       Day/Night Control     Automatic, Manual     1/1 to 1/10,000 sec)     1/1 to 1/10,000 sec)       D		640 x 360; 512 x 288	
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, Manual     Backlight Compensation   ON/OFF     Privacy Zones   Up to 64 Zones     Digital Zoom   12x     Electronic Image Stabilization   Yes     P/T Presets   300 configurable     P/T Tours   100 configurable	Bandwidth Management	HDSM SmartCodec technology; Idle scene mode	9
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, Manual     Backlight Compensation   ON/OFF     Privacy Zones   Up to 64 Zones     Digital Zoom   12x     Electronic Image Stabilization   Yes     P/T Presets   300 configurable     P/T Tours   100 configurable	Lens	2 MP	4 MP
Wide   30: 1 X 34:0     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     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, Manual     White Balance   Automatic, Manual     Backlight Compensation   ON/OFF     Privacy Zones   Up to 64 Zones     Digital Zoom   12x     Electronic Image Stabilization   Yes     P/T Presets   300 configurable     P/T Tours   100 configurable	Lens		
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     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, Manual     White Balance   Automatic, Manual     Backlight Compensation   ON/OFF     Privacy Zones   Up to 64 Zones     Digital Zoom   12x     Electronic Image Stabilization   Yes     P/T Presets   300 configurable     P/T Tours   100 configurable		58.1 x 34.8	
Lens ControlRemote Zoom and Focus, Autofocus, IR Cut Filter, Auto IrisImage Control2 MP4 MPImage Compression MethodH.264 HDSM SmartCodec, H.265 HDSM SmartCodec, Motion JPEGStreamingMulti-stream (four streams) H.264, Multi-stream H.265, Motion JPEGElectronic Shutter ControlAutomatic, Manual (1/1 to 1/10,000 sec)Day/Night ControlAutomatic, ManualFlicker ControlON/OFF (Automatically Adjusts for 50/60 Hz)Iris ControlAutomatic, ManualWhite BalanceAutomatic, ManualBacklight CompensationON/OFFPrivacy ZonesUp to 64 ZonesDigital Zoom12xElectronic Image StabilizationYesP/T Presets300 configurableP/T Tours100 configurable		2.3 x 1.4	
Image Control2 MP4 MPImage Compression MethodH.264 HDSM SmartCodec, H.265 HDSM SmartCodec, Motion JPEGStreamingMulti-stream (four streams) H.264, Multi-stream H.265, Motion JPEGElectronic Shutter ControlAutomatic, Manual (1/1 to 1/10,000 sec)Day/Night ControlAutomatic, ManualFlicker ControlON/OFF (Automatically Adjusts for 50/60 Hz)Iris ControlAutomatic, ManualWhite BalanceAutomatic, ManualBacklight CompensationON/OFFPrivacy ZonesUp to 64 ZonesDigital Zoom12xElectronic Image StabilizationYesP/T Presets300 configurableP/T Tours100 configurable	Zoom	30X Enhanced Optical	
Image Compression MethodH.264 HDSM SmartCodec, H.265 HDSM SmartCodec, Motion JPEGStreamingMulti-stream (four streams) H.264, Multi-stream H.265, Motion JPEGElectronic Shutter ControlAutomatic, Manual (1/1 to 1/10,000 sec)Day/Night ControlAutomatic, ManualFlicker ControlON/OFF (Automatically Adjusts for 50/60 Hz)Iris ControlAutomatic, ManualWhite BalanceAutomatic, ManualBacklight CompensationON/OFFPrivacy ZonesUp to 64 ZonesDigital Zoom12xElectronic Image StabilizationYesP/T Presets300 configurableP/T Tours100 configurable	Lens Control	Remote Zoom and Focus, Autofocus, IR Cut Filte	er, Auto Iris
StreamingMulti-stream (four streams) H.264, Multi-stream H.265, Motion JPEGElectronic Shutter ControlAutomatic, Manual (1/1 to 1/10,000 sec)Day/Night ControlAutomatic, ManualFlicker ControlON/OFF (Automatically Adjusts for 50/60 Hz)Iris ControlAutomatic, ManualWhite BalanceAutomatic, ManualBacklight CompensationON/OFFPrivacy ZonesUp to 64 ZonesDigital Zoom12xElectronic Image StabilizationYesP/T Presets300 configurableP/T Tours100 configurable	Image Control	2 MP 4 MP	
Electronic Shutter ControlAutomatic, Manual (1/1 to 1/10,000 sec)Day/Night ControlAutomatic, ManualFlicker ControlON/OFF (Automatically Adjusts for 50/60 Hz)Iris ControlAutomatic, ManualWhite BalanceAutomatic, ManualBacklight CompensationON/OFFPrivacy ZonesUp to 64 ZonesDigital Zoom12xElectronic Image StabilizationYesDigital DefogYesP/T Presets300 configurableP/T Tours100 configurable	Image Compression Method		
Day/Night ControlAutomatic, ManualFlicker ControlON/OFF (Automatically Adjusts for 50/60 Hz)Iris ControlAutomatic, ManualWhite BalanceAutomatic, ManualBacklight CompensationON/OFFPrivacy ZonesUp to 64 ZonesDigital Zoom12xElectronic Image StabilizationYesDigital DefogYesP/T Presets300 configurableP/T Tours100 configurable	Streaming	Multi-stream (four streams) H.264, Multi-stream I	H.265, Motion JPEG
Flicker ControlON/OFF (Automatically Adjusts for 50/60 Hz)Iris ControlAutomatic, ManualWhite BalanceAutomatic, ManualBacklight CompensationON/OFFPrivacy ZonesUp to 64 ZonesDigital Zoom12xElectronic Image StabilizationYesDigital DefogYesP/T Presets300 configurableP/T Tours100 configurable	Electronic Shutter Control	Automatic, Manual (1/1 to 1/10,000 sec)	
Iris ControlAutomatic, ManualWhite BalanceAutomatic, ManualBacklight CompensationON/OFFPrivacy ZonesUp to 64 ZonesDigital Zoom12xElectronic Image StabilizationYesDigital DefogYesP/T Presets300 configurableP/T Tours100 configurable	Day/Night Control	Automatic, Manual	
White BalanceAutomatic, ManualBacklight CompensationON/OFFPrivacy ZonesUp to 64 ZonesDigital Zoom12xElectronic Image StabilizationYesDigital DefogYesP/T Presets300 configurableP/T Tours100 configurable	Flicker Control	ON/OFF (Automatically Adjusts for 50/60 Hz)	
Backlight CompensationON/OFFPrivacy ZonesUp to 64 ZonesDigital Zoom12xElectronic Image StabilizationYesDigital DefogYesP/T Presets300 configurableP/T Tours100 configurable	Iris Control	Automatic, Manual	
Privacy ZonesUp to 64 ZonesDigital Zoom12xElectronic Image StabilizationYesDigital DefogYesP/T Presets300 configurableP/T Tours100 configurable	White Balance	Automatic, Manual	
Digital Zoom 12x   Electronic Image Stabilization Yes   Digital Defog Yes   P/T Presets 300 configurable   P/T Tours 100 configurable	Backlight Compensation	ON/OFF	
Electronic Image Stabilization Yes   Digital Defog Yes   P/T Presets 300 configurable   P/T Tours 100 configurable	Privacy Zones	Up to 64 Zones	
Digital Defog Yes   P/T Presets 300 configurable   P/T Tours 100 configurable	Digital Zoom	12x	
P/T Presets 300 configurable   P/T Tours 100 configurable	Electronic Image Stabilization	Yes	
P/T Tours 100 configurable	Digital Defog	Yes	
	P/T Presets	300 configurable	
3D Noise Reduction Filter Yes	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 auther port based authentication, FIPS 140-2 L1 (with optional signed and encrypted firmware, CC EAL6+	ntication, WS authentication, user access log, 802.1x al camera license), onboard FIPS 140-2 L3 certified TPM,	
Protocol	IPv6, IPv4, HTTP, HTTPS, SOAP, DNS, NTP, RTSP, I HSTS, NTCIP	RTCP, RTP, TCP, UDP, IGMP, ICMP, DHCP, Zeroconf,	
Streaming Protocols	RTP/UDP, RTP/UDP multicast, RTP/RTSP/TCP, RTP SRTP	/RTSP/HTTP/TCP, RTP/RTSP/HTTPS/TCP, HTTP,	
Device Management Protocol	SNMP v2c, SNMP v3		
Secure Boot	Yes		
Deviahovele			
Peripherals Onboard Storage	2 × microSD/microSDHC/microSDXC slots - video spe recommended.	eed class card required. Class V10 or better	
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/140mA MAX), 1 x 12VDC source (11~13VDC/140 mA MAX)		
Mechanical	In-Ceiling Mount	Pendant Mount	
Dimensions (LxWxH), Camera Only (In Shipping Box)	263 mm × 225 mm x 225 mm (280 mm x 267 mm x 551 mm); 10.4 in × 8.8 in x 8.8 in (11 in x 10.5 in x 21.7 in)	302 mm × 242 mm x 242 mm (280 mm x 267 mm x 551 mm); 11.9 in × 9.5 in x 9.5 in (11 in x 10.5 in x 21.7 in)	
Weight, Camera Only (In Shipping Box)	3.45 kg (4.90 kg); 7.60 lb. (10.78 lb.)	4.15 kg (5.60 kg); 9.13 lb. (12.31 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; Po Texture with Satin Sheen	wdercoat Gray, AKZO Nobel JP301H; Sand Grain	
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	

Electrical	In-Ceiling Mount	Pendant Mount
Power Source, Aux	Aux 24 VDC/VAC +/- 10%	
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/ IEEE802.3bt Type 3, Class 6 -51 °C to +60 °C (-59.8 °F to 140 °F), w/ IEEE802.3bt 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/ IEEE802.3bt Type 3, Class 6 -40 °C to +60 °C (-40°F to 140 °F), w/ IEEE802.3bt 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	IEC/EN 62262 Impact IK10 (Enclosure), IK09 (Bubble)	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	

# **Analytics Specifications**

Supported Analytics Eve	ents*	
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-unchangable 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 Ob	oject Types
Object Types in Outdoor Mode	Vehicle, sub-types: Car, Truck, Bicycle, Motorcycle, Bus Person
Object Types in Indoor Mode	Person

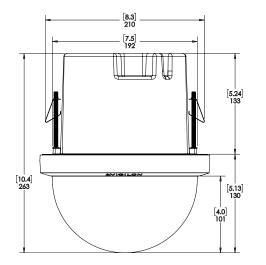
Teach By Example	
Teach By Example	Yes, when used with Avigilon Control Center™
Avigilon Control Center	(ACC) Versions Supported Features
	All supported applytic system with people and vehicles and all vehicles sub-types as descripted abjects. Appearance asserb

	All supported analytic events with people and vehicles and all vehicle sub-types as classified objects. Appearance search
i tele version i .2 er nigher	when paired with appropriate server hardware.

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

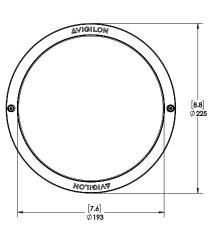
## **Outline Dimensions**

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



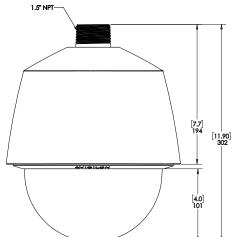
Pendant PTZ Dome Camera

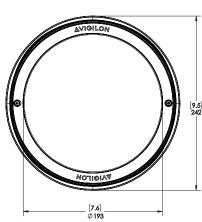
(H6A-PTZ-DP)



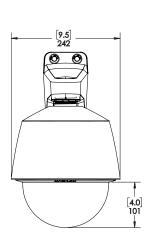
[X.X]	INCHES
х	MM

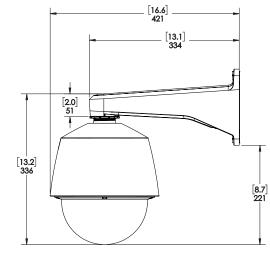
[X.X]	INCHES
х	MM



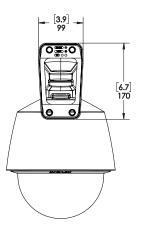


(H6A-PTZ-DP) WITH WALL ARM

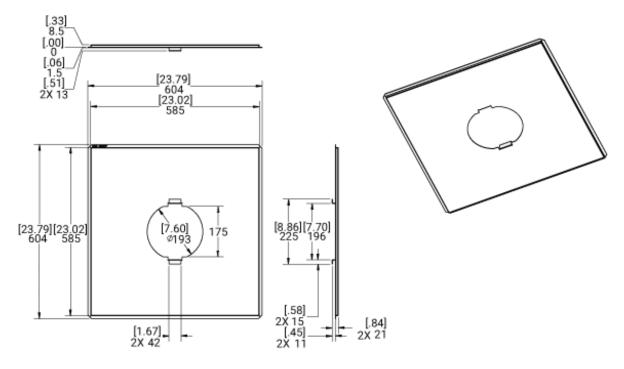




[X.X]	INCHES
Х	MM



Metal Ceiling Panel PTZ-CPNL-G



### **PTZ Dome Cameras**

	Description	Resolution	True WDR	IP66/67
2.0C-H6A-PTZ-DC30	CAM, H6A PTZ, In-Ceiling, 2MP, 30X	2.0	$\checkmark$	Х
2.0C-H6A-PTZ-DP30	CAM, H6A PTZ, Pendant, 2MP, 30X	2.0	$\checkmark$	$\checkmark$
4.0C-H6A-PTZ-DC30	CAM, H6A PTZ, In-Ceiling, 4MP, 30X	4.0	$\checkmark$	Х
4.0C-H6A-PTZ-DP30	CAM, H6A PTZ, Pendant, 4MP, 30X	4.0	$\checkmark$	$\checkmark$

### **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	
PD-9001GR/AT/AC-*-MSI	Indoor single port PoE+ 30W injector. Injector operational temperature range -20 °C to +40 °C (-4 °F to 104 °F). *NA/EU/UK/AU options available.	
POE60U-1BTE	Gigabit 802.3bt 60 W PoE Injector	
POE90U-1BT	PoE injector 802.3bt 90W Single Port	
PTZ-CPNL-G	Metal Ceiling Panel for In-Ceiling Installations, Grey	
PTZH6A-SMK50	Replacement smoked dome, 50% tint*	
PTZH6A-CLRBBL	Replacement clear dome*	

\*These accessories will be available in mid-Q4 2024.

### Support

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





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