![Avigilon - TRUSTED SECURITY SOLUTIONS™]

H4 PTZ Dome Camera Line
with Self-Learning Video Analytics

Pan-tilt-zoom (PTZ) cameras are a useful surveillance solution because of their ability to simultaneously cover wide areas and zoom in for finer details with a single camera. With the new Avigilon™ H4 PTZ, we are pushing the boundaries of the traditional PTZ camera by offering a high-performance camera with even greater zoom and evidentiary detail.

The Avigilon H4 PTZ camera line combines high-speed tracking and 360-degree coverage with excellent image quality, low-light performance and video analytics. The new H4 PTZ camera line is available in 1 and 2 megapixel (MP) camera resolutions in outdoor pendant and in-ceiling mount formats. The 1 MP PTZ camera has 45x zoom, while the 2 MP PTZ has a built-in 30x zoom lens for high-quality, detailed images from great distances.

This camera line is equipped with our patented LightCatcher™ technology, enabling exceptional color images in low light, as well as true wide dynamic range (WDR) for detailed images in both extreme brightness and darkness. It is also enabled with self-learning video analytics, for object tracking, alarm notifications and the ability to zoom in for key details.

Built on our next-generation H4 platform, the new H4 PTZ camera line allows customers to harness the strength of Avigilon Control Center (ACC)™, High Definition Stream Management (HDSM)™ and idle scene mode technologies, to intelligently and efficiently manage their video data, processing high-definition video with fewer strains on network resources.

KEY FEATURES

1 MP and 2 MP camera resolutions
1 MP zooms up to 45x and 2 MP zooms up to 30x
Self-learning video analytics
Patented Advanced Video Pattern Detection and Teach by Example Technology
Patented High Definition Stream Management (HDSM) technology
Idle Scene Mode lowers bandwidth and storage usage if there are no motion events detected in the scene
Avigilon LightCatcher technology provides exceptional image quality in low-light environments
Up to 60 fps high frame rate operation
IP67 certified for comprehensive dust and water ingress protection
True wide dynamic range (WDR)

Specifications

		1.0 MP	2.0 MP
IMAGE PERFORMANCE	Image Sensor	WDR 1/2.8" progressive scan CMOS	
	Active Pixels	1280 (H) x 720 (V)	1920 (H) x 1080 (V)
	Imaging Area	4.8 mm (H) x 2.7 mm (V); 0.189" (H) x 0.106" (V)	
	Minimum Illumination	0.1 lux (F/1.6) in color mode; 0.03 lux (F/1.6) in monochrome mode	
	Dynamic Range	120+ dB	
	Image Rate	Up to 60 fps	
	(Aspect Ratio) Resolution Scaling	down to (16:9) 384x216 or (5:4) 320x256	
LENS	Lens	4.3 to 129 mm, F/1.6 – F/4.7, autofocus, up to 45x zoom	4.3 to 129 mm, F/1.6 – F/4.7, autofocus, up to 30x zoom
	Angle of View	1.5° - 63.7°	2.3° - 63.7°
IMAGE CONTROL	Image Compression Method	H.264 (MPEG-4 Part 10/AVC), Motion JPEG	
	Streaming	Multi-stream H.264 and Motion JPEG	
	Motion Detection	Selectable sensitivity and threshold	
	Electronic Shutter Control	Automatic, Manual (1/1 to 1/10,000 sec)	
	Iris Control	Automatic, Manual	
	Day/Night Control	Automatic, Manual	
	Flicker Control	50 Hz, 60 Hz	
	White Balance	Automatic, Manual	
	Backlight Compensation	Manual	
	Privacy Zones	Up to 64 zones, 3D privacy mask supported	
	Presets	100 named presets	
	Tours	10 named guard tours	
	Audio Compression Method	G.711 PCM 8 kHz	
	Digital Zoom	Up to 100x when used with ACC Client for Windows	
NETWORK	Network	100BASE-TX	
	Cabling Type	CAT5e	
	Connector	RJ-45	
	API	ONVIF Profile S compliant (www.onvif.org)	
	Security	Password protection, HTTPS encryption, digest authentication, WS authentication, user access log, 802.1x port based authentication	
	Protocol	IPv4, HTTP, HTTPS, SOAP, DNS, NTP, RTSP, RTCP, RTP, TCP,UDP, IGMP, ICMP, DHCP, Zeroconf, ARP, LLDP	
	Streaming Protocols	RTP/UDP, RTP/UDP multicast, RTP/RTSP/TCP, RTP/RTSP/HTTP/TCP, RTP/RTSP/HTTPS/TCP, HTTP	
	Device Management Protocols	SNMP v2c, SNMP v3	
PERIPHERALS	Audio Input/Output	Line level input and output	
	Video Output	NTSC/PAL	
	External I/O Terminals	Alarm In, Alarm Out	
	Onboard Storage	SD/SDHC/SDXC slot – minimum class 4; class 6 or better recommended	

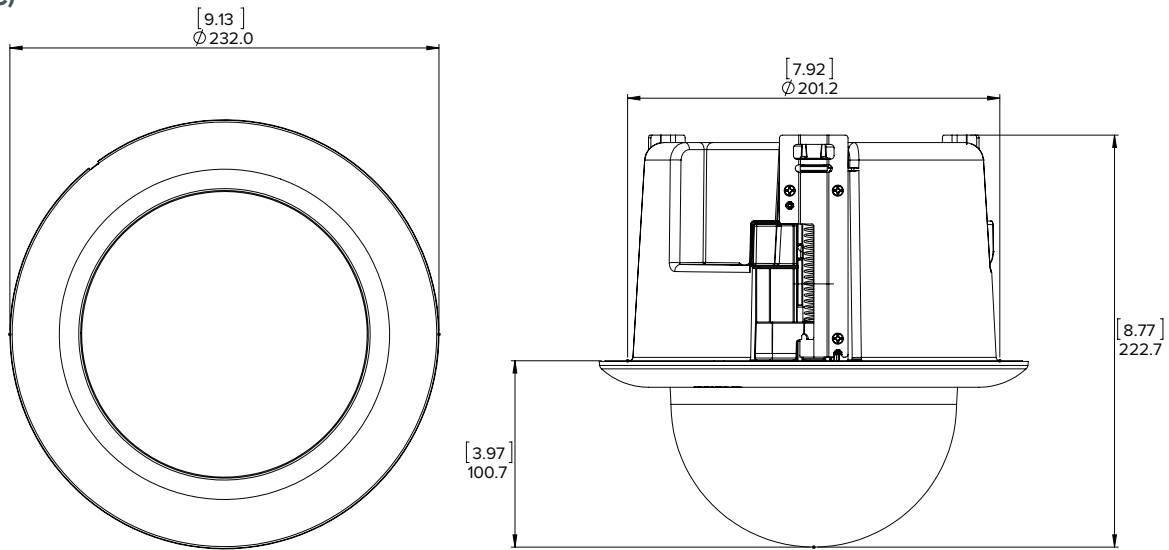|		**IN-CEILING MOUNT**	**PENDANT MOUNT**
MECHANICAL	Dimensions (ØxH)	232 mm x 222.7 mm; 9.13" x 8.77"	226 mm x 313 mm; 8.9" x 12.32"
	Weight	2.18 kg; 4.85 lbs	3.9 kg; 8.6 lbs
	Dome Bubble	Nylon	
	Body	Plastic	Aluminum
	Housing	Recessed mount	Pendant mount
	Finish	Plastic, cool grey	Powder coat, cool grey
	Tilt	-10° to 90°, e-Flip, 360°/second	
	Pan	360°, endless, 450°/second	
ELECTRICAL	Power Consumption	23 W max with external power (24 V DC) or PoE+ (32 VA with 24 V AC power)	57 W max with external power (24 V DC) or 60 W PoE 25.5 W max with PoE+ (80 VA with 24 V AC power)
	Power Source External Power	V DC: 24 V +/- 10%; V AC: 24 Vrms +/- 10%, 50 or 60Hz	
	PoE	IEEE 802.3at Class 4 PoE+	IEEE 802.3at Class 4 PoE+ 60 W PoE (POE-INJ2-60W)
	Power Connector	2-pin terminal block	Waterproof 3-pin connector
ENVIRONMENTAL	Operating Temperature	-10 °C to +50 °C (14 °F to 122 °F)	-40 °C to +50 °C (-40 °F to 122 °F) with external power or 60 W PoE -10 °C to +50 °C (-14 °F to 122 °F) with IEEE 802.3at Class 4 PoE+ power
	Storage Temperature	-10 °C to +70 °C (14 °F to 158 °F)	
	Humidity	0 - 95% non-condensing	
CERTIFICATIONS	Certifications/Directives	UL, cUL, CE, ROHS, WEEE, RCM, EAC	
	Safety	UL 60950-1, CSA 60950-1, IEC/EN 60950-1	
	Environmental	n/a	IK10 Impact Rating, IEC 60529 IP66/IP67 Rating, UL/CSA/IEC 60950-22
	Electromagnetic Emissions	FCC Part 15 Subpart B Class B, IC ICES-003 Class B, EN 55022 Class B, EN 61000-6-3, EN 61000-3-2, EN 61000-3-3, EN 55032	
	Electromagnetic Immunity	EN 55024, EN 61000-6-1, EN 50130-4	

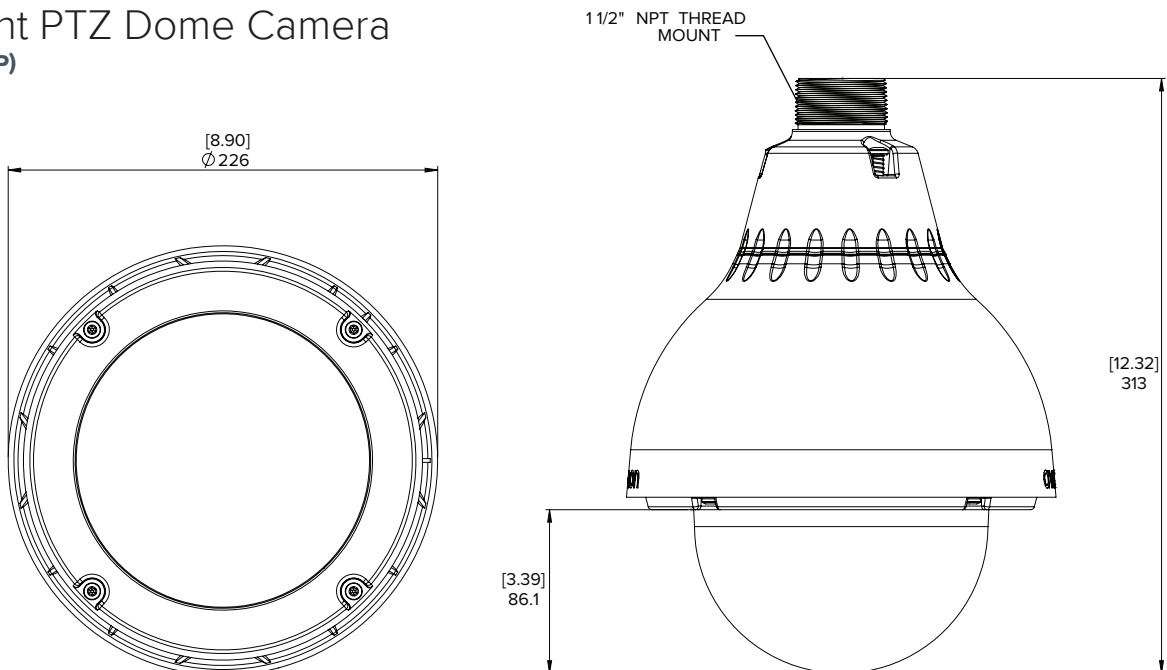| SUPPORTED VIDEO ANALYTICS EVENTS AT HOME POSITION	Objects in Area	The event is triggered when the selected object type moves into the region of interest.
	Object Loitering	The event is triggered when the selected object type stays within the region of interest for an extended amount of time.
	Objects 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 in a region of interest 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.

Outline Dimensions

In-Ceiling PTZ Dome Camera
(H4PTZ-DC)

[X.X]	INCHES
X	MM

[9.13]
⌀232.0

[7.92]
⌀201.2

[8.77]
222.7

[3.97]
100.7

Pendant PTZ Dome Camera
(H4PTZ-DP)

[8.90]
⌀226

1 1/2" NPT THREAD MOUNT

[12.32]
313

[3.39]
86.1

Ordering Information

IN-CEILING PTZ DOME CAMERAS	MP	WDR	LIGHTCATCHER TECHNOLOGY	ANALYTICS	LENS	ZOOM
1.0C-H4PTZ-DC45	1.0	✓	✓	✓	4.3 to 129 mm	45x
2.0C-H4PTZ-DC30	2.0	✓	✓	✓	4.3 to 129 mm	30x
PTZMH-DC-CLER1	PTZ In-Ceiling Dome Camera Cover with Clear Bubble					
PTZMH-DC-SMOK1	PTZ In-Ceiling Dome Camera Cover with Smoked Bubble					
PTZMH-DC-CPNL1	Metal Ceiling Panel					

PENDANT PTZ DOME CAMERAS	MP	WDR	LIGHTCATCHER TECHNOLOGY	ANALYTICS	LENS	ZOOM	IP66/IP67
1.0C-H4PTZ-DP45	1.0	✓	✓	✓	4.3 to 129 mm	45x	✓
2.0C-H4PTZ-DP30	2.0	✓	✓	✓	4.3 to 129 mm	30x	✓
CM-MT-WALL1	Pendant wall mount						
H4-MT-POLE1	Pole Mounting Bracket						
H4-MT-CRNR1	Corner Mounting Bracket						
PTZMH-DP-CLER1	Dome Camera Cover with Clear Bubble (IK10)						
PTZMH-DP-SMOK1	Dome Camera Cover with Smoked Bubble (IK10)						
POE-INJ2-60W	60 W PoE Injector						