

# 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.

Avigilon HDSM SmartCodec technology H4 platform optimizes the video stream in real time using automatic ROI encoding to save bandwidth and storage requirements while maintaining image quality.

#### **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

Avigilon HDSM SmartCodec™ technology for reduce bandwidth and storage requirements

Up to 60 fps high frame rate operation

IP67 certified for comprehensive dust and water ingress protection

True wide dynamic range (WDR)

### **Specifications**

Speciii	ications						
		1.0 MP	2.0 MP				
IMAGE PERFORMANCE	Image Sensor	WDR 1/2.8" progressive scan CMOS					
TEM ONMANGE	Active Pixels	1280 (H) × 720 (V)	1920 (H) × 1080 (V)				
	Imaging Area	4.8 mm (H) × 2.7 mm (V); 0.189" (H) × 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) 384×216 or (5:4) 320×256					
	3D Noise Reduction Filter	Yes					
		40.400 5/6 5/67 1/6	10.1.400				
LENS	Lens	4.3 to 129 mm, F/1.6 – F/4.7, autofocus	4.3 to 129 mm, F/1.6 – F/4.7, autofocus				
	Angle of View	1.5° - 63.7°	2.3° - 63.7°				
	Optical Zoom	45x	30x				
IMAGE CONTROL	Video Compression	H.264 (MPEG-4 Part 10/AVC), Motion JPEG, HDSM SmartCodec Technology					
	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 Manual					
	Privacy Zones	Up to 64 zones, 3D privacy mask supported					
	Presets	500 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					
	Electronic Image Stabilization	On/Off					
	Digital Defog	Adjustable/Off					
NETWORK	Network	100BASE-TX					
	Cabling Type	CAT5e					
	Connector	RJ-45					
	ONVIF®	ONVIF compliance version 1.02, 2.00, Profile S, Profile T, Profile G (www.onvif.org).					
	Security	Password protection, HTTPS encryption, digest authentication, WS authentication, user access log, 802.1x port based authentication					
	Protocol	IPv6, 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						
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 × 222.7 mm; 9.13" × 8.77"	226 mm × 313 mm; 8.9" × 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 High Power 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+; High Power 60 W PoE++* (POE-INJ2-60W)				
	Power Connector	2-pin terminal block	Waterproof 3-pin connector				
	RTC Backup Battery	3V manganese lithium					
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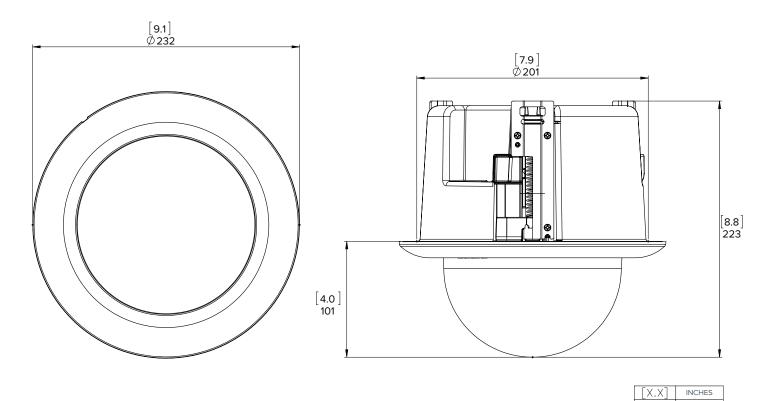
High power POE may not be compatible with all switches or injectors. High power POE is compatible with Cisco® UPOE, up to 60 W over 4 pairs, or with the high POE products listed in the Accessories section. Contact Avigilon sales or Avigilon technical support for more information.

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		IN-CEILING MOUNT	PENDANT MOUNT				
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	JL, cUL, CE, ROHS, WEEE, RCM, EAC, KC, BIS					
	Safety	UL 60950-1, CSA 60950-1, IEC/EN 60950-1					
	Environmental	Pendant model only) 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 55032 Class B, EN 61000-6-3, EN 61000-3-2, EN 61000-3-3, EN 55032, KN 32, EN 55011					
	Electromagnetic Immunity	EN 55024, EN 61000-6-1, EN 50130-4, KN 35					
SUPPORTED							
VIDEO ANALYTICS	Objects in Area	The event is triggered when the selected object type moves into the	e region of interest.				
EVENTS AT HOME	Object Loitering	The event is triggered when the selected object type stays within the	e region of interest for an extended amount of time.				
POSITION	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.					

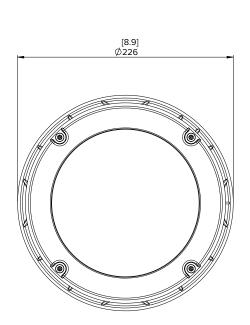
## **Outline Dimensions**

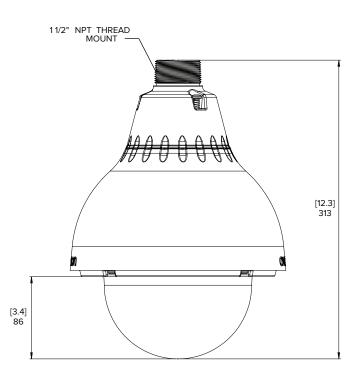
# In-Ceiling PTZ Dome Camera (H4PTZ-DC)



### Pendant PTZ Dome Camera

### (H4PTZ-DP)





# Ordering Information

IN-CEILING PTZ DOME CAMERAS	MP	WDR	LIGHTCATCHER TECHNOLOGY	ANALYTICS	LENS	ZOOM	HDSM SMARTCODEC
1.0C-H4PTZ-DC45	1.0	✓	✓	✓	4.3 to 129 mm	45x	✓
2.0C-H4PTZ-DC30	2.0	✓ ✓		✓	4.3 to 129 mm	30x	✓
DT7MU DC CLEDA	DTZ la Callina Dana	C C	data Clara Destata				
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	HDSM SMARTCODEC
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	60W PoE Injector. Injector operational temperature range is -10°C (14°F) to 45°C (113°F).							
POE-INJ2-PLUS	30W PoE+ Injector. Injector operational temperature range is -20°C (-4°F) to 40°C (104°F).							