Day/Night 20x HD PTZ Dome Cameras

Avigilon's end-to-end surveillance solutions deliver image detail no other system can match. Avigilon™ Control Center software, featuring High Definition Stream Management (HDSM)™ technology combined with our broad range of megapixel cameras (from 1 MP to 29 MP) provide unprecedented clarity—while effectively managing storage and bandwidth requirements. Our components are scalable and can work together in an end-to-end system, or can be customized to create your own powerful and cost-effective solution.

The innovative HD PTZ camera is just one way Avigilon can help provide the very best monitoring and protection.

Avigilon's HD PTZ camera offers unsurpassed image quality with precise positioning and predictable high-speed tracking. Underpinned by the H3 platform, the HD PTZ camera takes advantage of enhanced High-Definition Stream Management™ technology to lower bandwidth and storage requirements, while providing incredible low light performance. The camera features a 20x optical zoom with up to 12x digital zoom, and provides continuous 360° degree rotation at up to 450° per second. The unique design of the in-ceiling variant mount allows for simple installation in just seconds and makes it an ideal camera for indoor applications in retail, casino and commercial environments. The pendant variant is targeted specifically at indoor and outdoor expansive areas with manned operations, such as large retail chains, airports, petrochemical, casinos and city surveillance.

KEY FEATURES

Progressive scan CMOS sensor
Easily track targets with 360 degree endless rotation
Able to move at up to 450 degrees per second
4.7-94 mm, F1.6 lens with 20x zoom
Provides smooth operation and captures fluid motion at 30 frames per second
H.264 and Motion JPEG compression
ONVIF compliant API
Hide sensitive areas with 3D privacy mask
Automatic exposure control and iris control
Automatic removable IR cut filter for IR sensitivity at night
Power over Ethernet, 24 VAC or 24 VDC power input
External microphone and speaker support for two-way audio
External I/O interface for connecting alarms and relays
Pendant variant supports broad environmental conditions for challenging outdoor installations

Specifications

HD PTZ CAMERAS

		IN-CEILING PTZ DOME CAMERA	PENDANT PTZ DOME CAMERA
IMAGE PERFORMANCE	Image Sensor	WDR 1/2.8" progressive scan CMOS	
	Active Pixels	1.0 MP: 1280 (H) x 720 (V)	2.0 MP: 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	0.4 lux (F1.6) in color mode; 0.04 lux (F1.6) in monochrome mode	
	Dynamic Range	100 dB	
	Image Rate	30 (all resolutions)	
	Resolution Scaling	Down to 352 x 240	
LENS	Lens	4.7-94 mm, 20x zoom, F1.6 and automatic focus	
	Angle of View	2.9° - 55.2°	
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 (1/6 to 1/8000 sec)	
	Iris Control	Automatic, Manual	
	Day/Night Control	Automatic, Manual	
	Flicker Control	50 Hz, 60 Hz	
	White Balance	Automatic, Manual	
	Backlight Compensation	Adjustable	
	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	
	Audio Input/Output	Line level input and output	
	Video Output	NTSC/PAL	
	External I/O Terminals	Alarm In, Alarm Out	
NETWORK	Network	100BASE-TX	
	Cabling Type	CAT5	
	Connector	RJ-45	
	API	ONVIF compliance version 1.02, 2.00, Profile S (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	
MECHANICAL	Dimensions (ØxH)	232 mm x 222.44 mm; 9.134" x 8.757"	226 mm x 299.77 mm; 8.9" x 11.8"
	Weight	2.18 kg (4.85 lbs)	3.9 kg (8.6 lbs)
	Dome Bubble	Acrylic, clear	
	Body	Plastic, plenum rated (UL 2043)	Aluminum
	Housing	Recessed mount	Pendant mount
	Finish	Plastic, RAL 9003	Powder coat, cool gray 2
	Tilt	186°, E-flip, 0.05 - 360°/sec	
	Pan	360°, endless, 0.05 - 450°/sec	
ELECTRICAL	Power Consumption	55 W	PoE: IEEE 802.3at Class 4 PoE Plus compliant
	Power Source	VDC: 24 V +/- 10%	VAC: 24 V +/- 10%
		25.5 W with IEEE 802.3at Class 4 PoE Plus	
	Power Connector	2-pin terminal block	Waterproof 2-pin connector
ENVIRONMENTAL	Operating Temperature	-10 °C to +50 °C (14 °F to 122 °F)	-45 °C to +50 °C (-50 °F to 122 °F) with external power -30 °C to +50 °C (-22 °F to 122 °F) with IEEE 802.3at Class 4 PoE Plus power
	Storage Temperature	-10 °C to +70 °C (14 °F to 158 °F)	
	Humidity	0 - 95% non-condensing	

CERTIFICATIONS	Safety	UL 60950	CSA 60950	CB Scheme	RCM	UL 60950	CSA 60950	CVV	CB Scheme	RCM
	Environment					IK10 Impact Rating (with H3PTZ-DP-CLEAR-IK only)			Meets IP66 Weather Rating	
	Electromagnetic Emissions	FCC Part 15 Subpart B Class B		IC ICES-003 Class B		EN 55022 Class B			EN 61000-6-3	
	Electromagnetic Immunity	EN 55024	EN 61000-4-2	EN 61000-4-3	EN 61000-4-4	EN 61000-4-5	EN 61000-4-6		EN 61000-4-11	EN 61000-6-1

Outline Dimensions

In-Ceiling PTZ Dome Camera

[4.803]
122.00

[3.954]
100.44

Ø[7.893]
200.48

Ø[9.134]
232.00
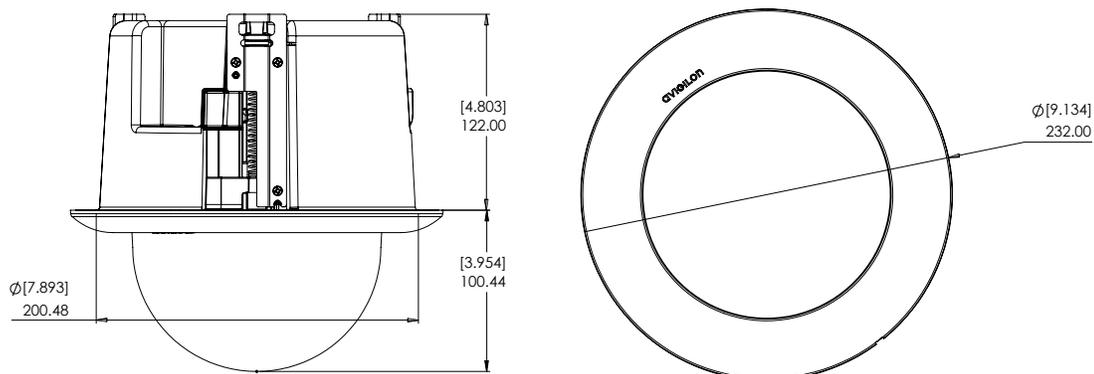
[X.X]	INCHES
X	MM

Pendant PTZ Dome Camera

[8.9]
Ø226

[11.8]
299.77

[3.4]
85.87

1 1/2″ NPT THREAD MOUNT
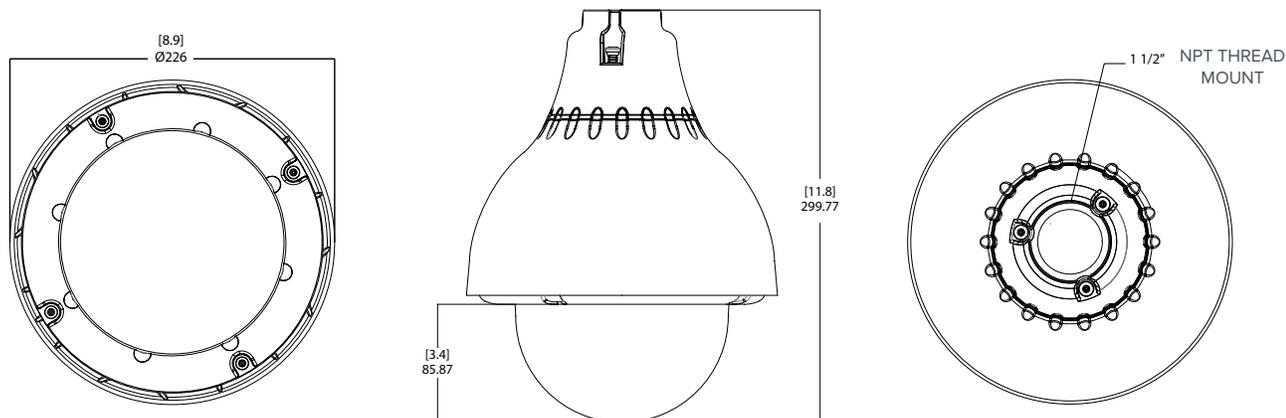
Ordering Information

IN-CEILING PTZ DOME CAMERAS

1.0W-H3PTZ-DC20	1.0 Megapixel Day/Night H.264 20x HD PTZ In-Ceiling Dome Camera
2.0W-H3PTZ-DC20	2.0 Megapixel Day/Night H.264 20x HD PTZ In-Ceiling Dome Camera
H3PTZ-DC-CLEAR	PTZ In-Ceiling Dome Camera Cover with Clear Bubble
H3PTZ-DC-SMOKE	PTZ In-Ceiling Dome Camera Cover with Smoked Bubble
H3PTZ-DC-PNL	Metal Ceiling Panel

PENDANT PTZ DOME CAMERAS

1.0W-H3PTZ-DP20	1.0 Megapixel Day/Night H.264 20x HD PTZ Pendant Dome Camera
2.0W-H3PTZ-DP20	2.0 Megapixel Day/Night H.264 20x HD PTZ Pendant Dome Camera
MNT-PEND-WALL	Indoor/Outdoor Pendant Mount Bracket
MNT-AD-POLE-B	Pole Mounting Bracket
MNT-AD-CORNER	Corner Mounting Bracket
H3PTZ-DP-SMOKE	Dome Camera Cover with Smoked Bubble
H3PTZ-DP-CLEAR-IK	Dome Camera Cover with Clear Bubble (IK10)

Mar.2014-Rev2