

1.0 Megapixel Day/Night 20x HD PTZ In-Ceiling Dome Camera



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 mount allows for simple installation in just seconds and makes it an ideal camera for indoor applications in retail, casino and commercial environments.

KEY FEATURES

- 1.0 megapixel progressive scan CMOS sensor
- Easily track targets with 360 degree endless rotation
- Able to move at up to 450 degrees per second
- 4.7 - 94mm, F1.6 lens with 20x zoom
- Provides smooth operation and captures fluid motion at 30 frames per second
- 0.4 lux (F1.6) minimum illumination in color mode and 0.04 lux (F1.6) minimum illumination in monochrome mode
- 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
- Plenum rated

Specifications

CAMERA	Image Sensor	WDR 1/2.8" progressive scan CMOS
	Active Pixels	1280 (H) x 720 (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	100dB
	Lens	4.7-94 mm, 20x zoom, F1.6 and automatic focus
	Angle of View	2.9° - 55.2°
	Image Compression Method	H.264 (MPEG-4 Part 10/AVC), Motion JPEG
	Image Rate	30 (all resolutions)
	Streaming	Multi-stream H.264 and Motion JPEG
	Resolution Scaling	Down to 352 x 240
	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
	Privacy Zones	Up to 4 zones, 3D privacy mask supported
	Presets	100 named presets
	Tours	10 named guard tours
	Audio Compression Method	G.711 PCM 8 kHz
	Audio Input	Line input
	Audio Output	Line level
	Video Output	NTSC/PAL
	External I/O Terminals	2 Alarm In, 2 Alarm Out

NETWORK	Network	100BASE-TX
	Cabling Type	CAT5
	Connector	RJ-45
	API	ONVIF compliant (www.onvif.org)
	Security	Password protection, HTTPS encryption, digest authentication, WS authentication, user access log.
	Protocol	IPv4, HTTP, HTTPS, SOAP, DNS, NTP, RTSP, 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"
	Weight	2.18 kg (4.85 lbs)
	Dome Bubble	Acrylic, clear
	Body	Plastic, plenum rated (UL 2043)
	Housing	Recessed mount
	Finish	Plastic, RAL 9003
	Tilt	186°, E-flip, 0.05 - 360°/sec
Pan	360°, endless, 0.05 - 450°/sec	

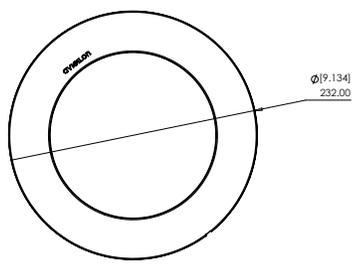
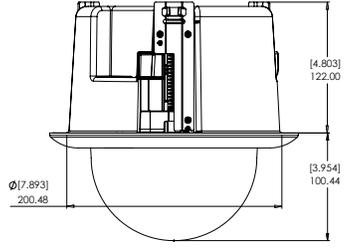
ELECTRICAL	Power Consumption	20 W
	Power Source	VAC: 24 V +/- 10% PoE: IEEE 802.3at Class 4 PoE Plus compliant VDC: 24 V +/- 10%
	Power Connector	2-pin terminal block

ENVIRONMENTAL	Operating Temperature	-10 °C to +50 °C (14 °F to 122 °F)
	Storage Temperature	-10 °C to +70 °C (14 °F to 158 °F)

CERTIFICATIONS	Safety	UL 60950	CSA 60950	C-Tick	CB Scheme
	Environmental	Plenum rated (UL 2043)			
	Electromagnetic Emission	FCC Part 15 Subpart B Class B		IC ICES-003 Class B	EN 55022 Class B
	Electromagnetic Immunity	EN 55024 Class B	EN 61000-4-3 EN 61000-4-2	EN 61000-4-5 EN 61000-4-6	EN 61000-4-11

ORDERING INFORMATION	1.0W-H3PTZ-DC20	1.0 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

Outline Dimensions



[X.X]	INCHES
X	MM

1.0W-H3PTZ-DC20