

# HD Dome Cameras with Adaptive Video Analytics

AVIGILON

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)<sup>™</sup> 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 dome cameras are just one way Avigilon can help provide the very best monitoring and protection.



The HD dome camera with adaptive video analytics brings together Avigilon's world renowned camera technology with video analytics. The combination of instant and accurate object detection and classification alerts, with the identification performance of high-definition video, provides users with an unmatched level of perimeter protection to keep both personnel and assets safe.

The HD dome camera is a great solution for monitoring both daytime and nighttime outdoor activities. It features an integrated lens for remote focus and zoom control with excellent low light performance. P-Iris control also allows the camera to automatically set its iris position to maximize image quality in all lighting conditions, while onboard storage capabilities let you manage storage directly on the camera using a standard SD memory card.

## KEY FEATURES

Advanced video pattern detection analytics
Available with 3-9 mm or 9-22 mm P-Iris lens with remote focus and zoom
Up to 30 images per second
Wide Dynamic Range
SD card slot for onboard storage support
H.264 and Motion JPEG compression
Zoom and content adaptive integrated IR (Infrared) LEDs provide uniform illumination in the dark, even at 0 lux, up to a maximum of 15 m (50 ft) away
Power over Ethernet, 24 VAC or 12 VDC power input
Vandal resistant construction and IP66 compliant
ONVIF compliant with version 2.2.0 of the Analytics Service Specification

# Specifications

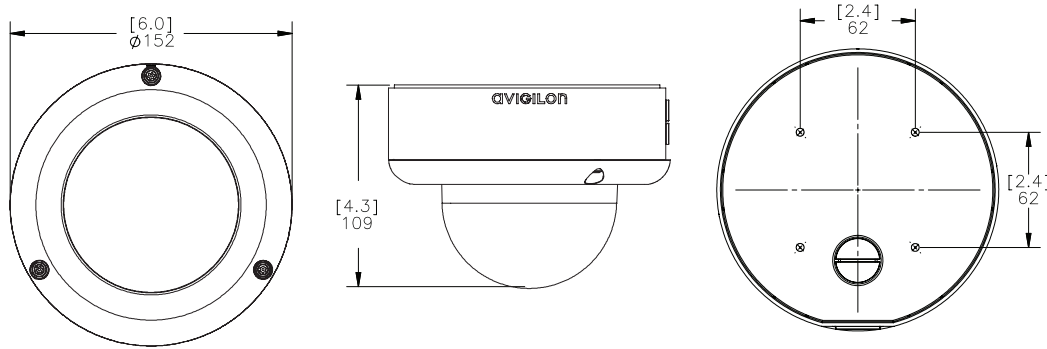
HD VIDEO ANALYTICS CAMERA

<b>VIDEO ANALYTICS SUPPORT</b>	Advanced Video Pattern Detection							
<b>VIDEO ANALYTICS RULES</b>	People or vehicle moving in an area		People or vehicle crossing a beam		People or vehicle loitering in an area			
	Person or vehicle stopped		Dwell time		Person or vehicle enters/leaves an area			
	Person or vehicle moving in a prohibited direction of travel		Too many or too few persons in a secured area					
<b>IMAGE PERFORMANCE</b>			<b>1.0 MP</b>	<b>2.0 MP</b>	<b>3.0 MP</b>			
	Image Sensor		1/2.7" progressive scan CMOS		WDR 1/3" progressive scan CMOS			
	Active Pixels		1280 (H) x 720 (V)		1920 (H) x 1080 (V)		2048 (H) x 1536 (V)	
	Imaging Area		5.9 mm (H) x 3.3 mm (V); 0.231" (H) x 0.129" (V)			4.5 mm (H) x 3.4 mm (V); 0.177" (H) x 0.133" (V)		
	Minimum Illumination	3-9 mm lens:	0.2 lux (F1.2) in color mode; 0.02 lux (F1.2) in monochrome mode					
		9-22 mm lens:	0.4 lux (F1.6) in color mode; 0.04 lux (F1.6) in monochrome mode					
	Dynamic Range		69 dB			100 dB		
Image Rate		30 fps (all resolutions)			20 fps (at full resolution); 30 fps (at 1920 x 1080 or smaller)			
Resolution Scaling		Down to 768 x 432			Down to 480 x 360			
<b>LENS</b>	Lens		3-9 mm, F1.2, P-Iris, remote focus and zoom					
			9-22 mm, F1.6, P-Iris, remote focus and zoom					
	Angle of View	3-9 mm lens:	35° - 98°			28° - 84°		
9-22 mm lens:		15° - 35°			12° - 28°			
<b>IMAGE CONTROL</b>	Image Compression Method		H.264 (MPEG-4 Part 10/AVC), Motion JPEG					
	Streaming		Multi-stream H.264 and Motion JPEG					
	Motion Detection		Pixel and classified objects					
	Camera Tampering Detection		Yes					
	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					
	Audio Compression Method		G.711 PCM 8 kHz					
	Audio Input/Output		Line level input and output, A/V mini-jack (3.5 mm)					
	Video Output		(1MP and 2MP only) NTSC/PAL, A/V mini-jack (3.5 mm)					
	External I/O Terminals		Alarm In, Alarm Out					
	IR Illumination (option)		850 nm wavelength, 15 m (50 ft) max. distance of IR illumination at 0 lux					
	<b>NETWORK</b>	Network		100BASE-TX				
Cabling Type		CAT5						
Connector		RJ-45						
ONVIF		ONVIF compliant with version 1.02, 2.00, Profile S and 2.2.0 of the Analytics Service Specification (*bounding boxes and scene descriptions not available with third-party VMS)						
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						
Streaming Protocols		RTP/UDP, RTP/UDP multicast, RTP/RTSP/TCP, RTP/RTSP/HTTP/TCP, RTP/RTSP/HTTPS/TCP, HTTP						
<b>MECHANICAL</b>			<b>SURFACE MOUNT OUTDOOR DOME CAMERA</b>			<b>PENDANT DOME CAMERA</b>		
	Dimensions (ØxH)		152 mm x 109 mm; 6.0" x 4.3"			167 mm x 157 mm; 6.6" x 6.2"		
	Weight		1.28 kg (2.82 lbs)			2.1 kg (4.6 lbs)		
	Dome Bubble		Polycarbonate, clear					
	Body		Aluminum					
	Housing		Surface mount, vandal resistant			Pendant mount, vandal resistant		
	Finish		Powder coat, cool gray 2					
	Adjustment Range		360° pan, 180° tilt (122° tilt with -IR option), 180° azimuth					
<b>ELECTRICAL</b>	Onboard Storage		SD/SDHC/SDXC slot – minimum class 4; class 6 or better recommended					
	Power Consumption		9 W (10 W for -IR option)					
	Power Source		VDC: 12 V +/- 10%, 9 W min (10 W min with -IR option) VAC: 24 V +/- 10%, 12 VA min (13 VA min with -IR option)			PoE: IEEE802.3af Class 3 compliant		
	Power Connector		2-pin terminal block					
<b>ENVIRONMENTAL</b>	Operating Temperature		-30 °C to +50 °C (-22 °F to 122 °F)					
	Storage Temperature		-40 °C to +70 °C (-40 °F to 158 °F)					
<b>CERTIFICATIONS</b>	Safety		UL 60950	CSA 60950	EN 60950-1	CE	ROHS	WEEE
	Environmental		IK10 Impact Rating		Meets IP66 Weather Rating			
	Electromagnetic Emissions		FCC Part 15 Subpart B Class B		IC ICES-003 Class B		EN 55022 Class B	
	Electromagnetic Immunity		EN 55024	EN 61000-4-2	EN 61000-4-3	EN 61000-4-4	EN 61000-4-5	EN 61000-4-6

# Outline Dimensions

## Surface Mount Outdoor Dome Camera

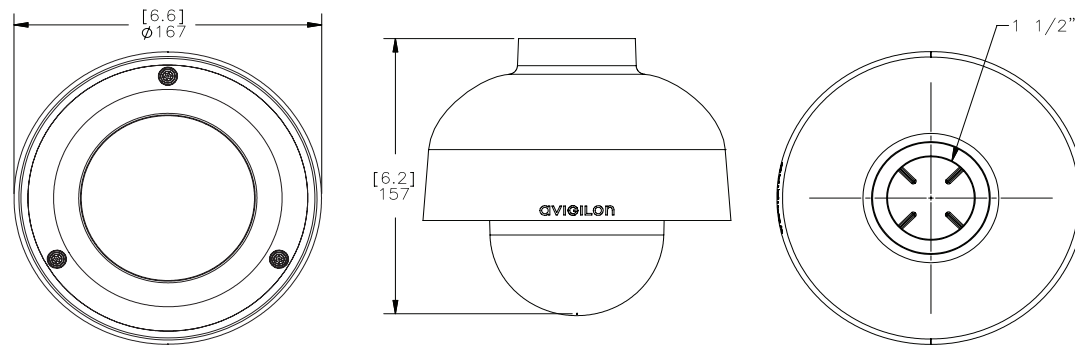
(H3A-DO)



[X.X]	INCHES
X	MM

## Pendant Dome Camera

(H3A-DP)



# Ordering Information

### SURFACE MOUNT OUTDOOR DOME CAMERAS

1.0-H3A-DO1	1.0 Megapixel Day/Night H.264 HD 3-9 mm Outdoor Dome Camera with Adaptive Video Analytics
1.0-H3A-DO1-IR	1.0 Megapixel Day/Night H.264 HD 3-9 mm Outdoor Dome Camera with IR Illuminator and Adaptive Video Analytics
1.0-H3A-DO2	1.0 Megapixel Day/Night H.264 HD 9-22 mm Outdoor Dome Camera with Adaptive Video Analytics
2.0-H3A-DO1	2.0 Megapixel Day/Night H.264 HD 3-9 mm Outdoor Dome Camera with Adaptive Video Analytics
2.0-H3A-DO1-IR	2.0 Megapixel Day/Night H.264 HD 3-9 mm Outdoor Dome Camera with IR Illuminator and Adaptive Video Analytics
2.0-H3A-DO2	2.0 Megapixel Day/Night H.264 HD 9-22 mm Outdoor Dome Camera with Adaptive Video Analytics
3.0W-H3A-DO1	3.0 Megapixel WDR Day/Night H.264 HD 3-9 mm Outdoor Dome Camera with Adaptive Video Analytics
3.0W-H3A-DO1-IR	3.0 Megapixel WDR Day/Night H.264 HD 3-9 mm Outdoor Dome Camera with IR Illuminator and Adaptive Video Analytics
3.0W-H3A-DO2	3.0 Megapixel WDR Day/Night H.264 HD 9-22 mm Outdoor Dome Camera with Adaptive Video Analytics
H3-DOP-SMOKE	Dome Camera Cover with Smoked Bubble

### PENDANT DOME CAMERAS

1.0-H3A-DP1	1.0 Megapixel Day/Night H.264 HD 3-9mm Pendant Dome Camera with Adaptive Video Analytics
1.0-H3A-DP2	1.0 Megapixel Day/Night H.264 HD 9-22mm Pendant Dome Camera with Adaptive Video Analytics
2.0-H3A-DP1	2.0 Megapixel Day/Night H.264 HD 3-9mm Pendant Dome Camera with Adaptive Video Analytics
2.0-H3A-DP2	2.0 Megapixel Day/Night H.264 HD 9-22mm Pendant Dome Camera with Adaptive Video Analytics
3.0W-H3A-DP1	3.0 Megapixel WDR Day/Night H.264 HD 3-9mm Pendant Dome Camera with Adaptive Video Analytics
3.0W-H3A-DP2	3.0 Megapixel WDR Day/Night H.264 HD 9-22mm Pendant Dome Camera with Adaptive Video Analytics
H3-DOP-SMOKE	Dome Camera Cover with Smoked Bubble
MNT-PEND-WALL	Indoor/Outdoor Pendant Mount Bracket