avigilon™
a Motorola Solutions Company

H5M Fixed Dome Camera
Preliminary Datasheet

2 MP   **5 MP**

The Avigilon H5M camera provides a cost-effective solution for budget-conscious video surveillance projects and is beneficial for sites that require a fixed lens camera for outdoor use.

The H5M camera can handle tough environmental conditions while offering advanced AI technology for faster response times and simple installation — all backed by the Avigilon made-to-trust quality guarantee of a 5-year warranty.

Features

UNUSUAL MOTION DETECTION
Uses AI to notify you of unusual events that might otherwise have been missed, offering increased situational awareness and helping you effectively monitor more cameras.

LIGHTCATCHER™ TECHNOLOGY
Offers exceptional detail in areas with low lighting.

DUAL EXPOSURE WIDE DYNAMIC RANGE
Capture details in scenes with both very bright and dark areas.

ONVIF® COMPLIANT
Built on an open platform to allow integration with other security solutions.

H.265 AND H.264 WITH HDSM SMARTCODEC™ TECHNOLOGY
Optimizes compression levels for regions in a scene to help enhance bandwidth savings, helping to keep internet connectivity costs down.

WEATHER AND IMPACT RATED
Certified to IP66 weather rating and IK08 impact rating for vandal resistance.

MADE IN AMERICA AND 5 YEAR WARRANTY
Made in America using U.S. and globally sourced parts, we stand behind the quality of our H5M cameras with a 5-year, industry-leading warranty.

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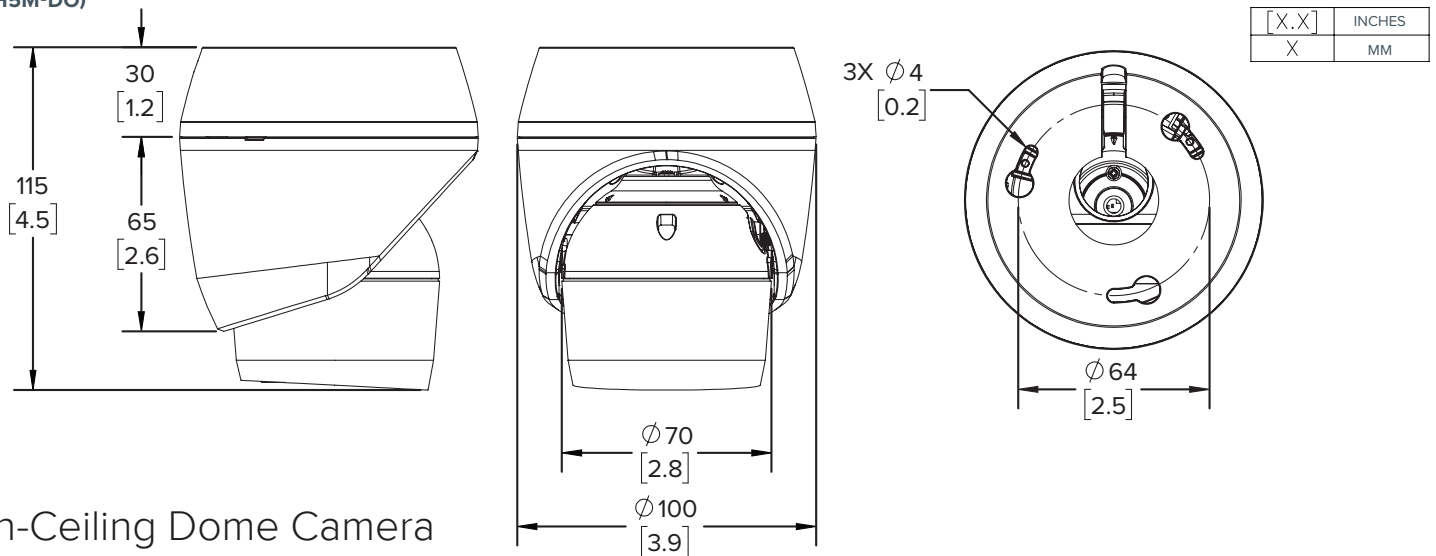
Specifications

		2.0 MP		5.0 MP	
IMAGE PERFORMANCE	Image Sensor	1/2.8" progressive scan CMOS			
	Max Resolution (H × V) and Aspect Ratio	(16:9) 1920 × 1080 (5:4) 1280 × 1024	(4:3) 1280 × 960 (16:9) 1280 × 720	(4:3) 2592 × 1944 (5:4) 2560 × 1440	
	Imaging Area (H × V)	4.8 mm × 2.7 mm; 0.189" × 0.106"		5.18 mm × 3.89 mm; 0.204" × 0.153"	
	Dynamic Range — WDR Off	83 dB		83 dB	
	Dynamic Range — WDR On	110 dB (dual exposure)		110 dB (dual exposure)	
	Max Image Rate	(50 Hz/60 Hz): 25 fps/30 fps		(50 Hz/60 Hz): 25 fps/24 fps	
	Resolution Scaling	Down to 384 × 216			
	Camera Operating Mode	N/A		Full feature or high framerate mode (UMD disabled in high framerate mode)	
	Bandwidth Management	HDSM SmartCodec technology; Idle scene mode			
	3D Noise Reduction Filter	Yes			

		2.0 MP	5.0 MP
LENS AND IR ILLUMINATION	Lens	2.8 mm, F1.2, IR Corrected	
	Minimum Illumination — With IR	0 lux in color or monochrome mode	
	Minimum Illumination — Without IR	0.01 lux in color mode; 0.005 lux (F/1.2) in monochrome mode	0.03 lux in color mode; 0.015 lux (F/1.2) in monochrome mode
	IR illumination (high power 850 nm LEDs)	15 m (50 ft) max. distance at 0 lux	
	Horizontal Angle of View Based on Aspect Ratio	(16:9) 112°; (5:4) 72°; (4:3) 82°	(5:4) 103°; (4:3) 104°
	Vertical Angle of View Based on Aspect Ratio	(16:9) 62°; (5:4) 58°; (4:3) 61°	(5:4) 67°; (4:3) 77°
	Max Aperture	F1.2	
	Control	Fixed	

IMAGE CONTROL	Image Compression Method	H.264 HDSM SmartCodec, H.265 HDSM SmartCodec, Motion JPEG
	Streaming	Multi-stream H.264, Multi-stream H.265, Motion JPEG
	Motion Detection	Pixel and Unusual Motion Detection (UMD)
	Camera Tamper Detection	Yes
	Electronic Shutter Control	Automatic, Manual (1/7.5 to 1/8000 sec)
	Iris Control	None
	Day/Night Control	Automatic, Manual
	Flicker Control	50 Hz, 60 Hz
	White Balance	Automatic, Manual
	Backlight Compensation	Adjustable
	Privacy Zones	Up to 64 zones

NETWORK	Network	100BASE-TX, RJ45 Connector, CAT5 Cabling
	ONVIF	ONVIF compliance Profile S, Profile T (www.onvif.org)
	Security	Password protection, HTTPS encryption, digest authentication, WS authentication, user access log, 802.1x port based authentication
	Protocols	IPv6, 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
	Device Management Protocols	SNMP v2c, SNMP v3

		SURFACE MOUNT	IN-CEILING MOUNT
MECHANICAL	Dimensions (LxWxH)	100 mm × 100 mm × 115 mm; 3.9" × 3.9" × 4.5"	101 mm × 101 mm × 162 mm; 4.0" × 4.0" × 6.4"
	Max. Ceiling Thickness	N/A	1.0"
	Weight	0.355 kg; 0.78 lbs	0.37 kg; 0.82 lbs
	Body	Polycarbonate and aluminum	
	Housing	Polycarbonate	
	Finish	Cool gray	
	Adjustment Range	360° pan, ±180° azimuth, 0° – 90° tilt	

ELECTRICAL	Power Consumption	8 W
	Power Source	PoE: IEEE802.3af Class 0 compliant

ENVIRONMENTAL	Operating Temperature	-30 °C to +55 °C (-22 °F to 131 °F)
	Storage Temperature	-40 °C to +70 °C (-40 °F to 158 °F)
	Humidity	0 - 95% non-condensing

CERTIFICATIONS	Certifications/Directives	UL, cUL, CE, ROHS, WEEE, RCM
	Safety	UL 62368-1, CSA 62368-1, IEC/EN 62368-1, IEC 62471
	Environmental	IP66 Weather Rating and IK08 Impact Rating
	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
	Electromagnetic Immunity	EN 55024, EN 61000-6-1

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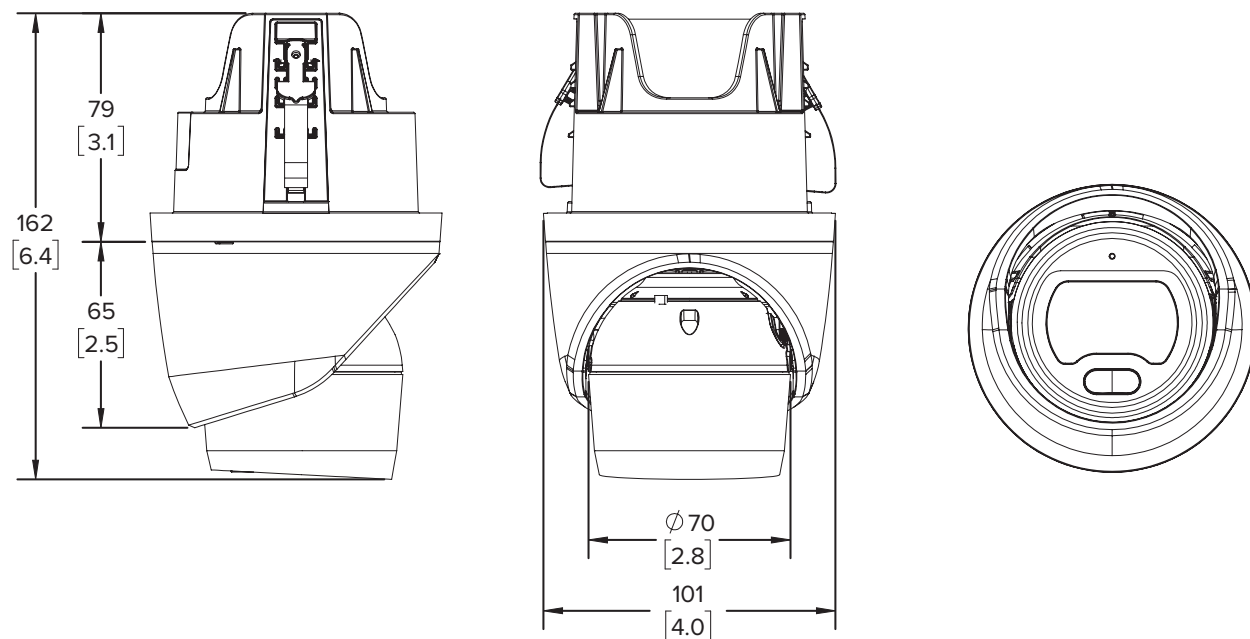
Outline Dimensions

Surface Mount Outdoor Dome Camera
(H5M-DO)

X.X	INCHES
X	MM

In-Ceiling Dome Camera
(H5M-DO + H5M-MT-DCIL1)

Ordering Information

	MP	WDR	LightCatcher Technology	Lens	IR	IP66	HDSM SmartCodec
2.0C-H5M-DO1-IR	2.0	✓	✓	2.8 mm	✓	✓	✓
5.0C-H5M-DO1-IR	5.0	✓	✓	2.8 mm	✓	✓	✓

H5M-DO-BZL1	Package of 4 camera shroud replacement parts for the H5M dome cameras
H5M-MT-DCIL1	In-ceiling mount adapter for H5M dome cameras

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