**avigilon**™

a Motorola Solutions Company

# H5M Outdoor Dome Camera

**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 small footprint 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.

**HDSM**
**SMARTCODEC**

**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.

ONVIF is a trademark of Onvif, Inc.

SUPPORT  asksales@avigilon.com  |  avigilon.com

# 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 | | |

| | | | |
|---|---|---|---|
| **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 |

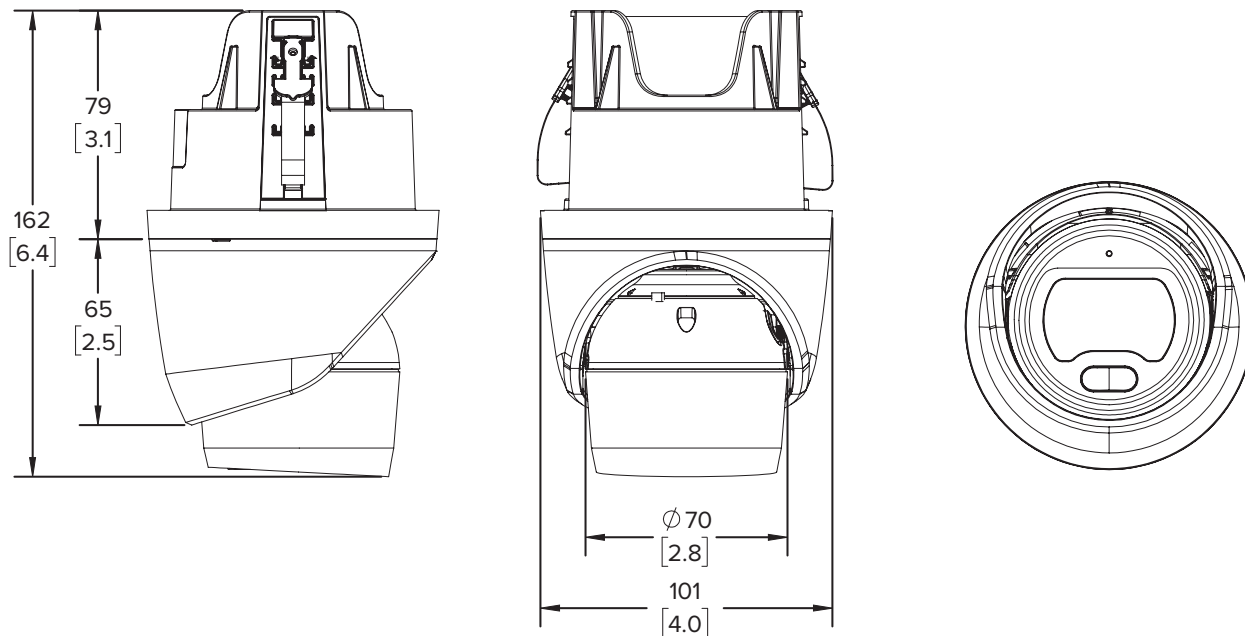| | | |
|---|---|---|
| **CERTIFICATIONS** | Certifications/Directives | UL, cUL, CE, ROHS, WEEE, RCM |
| | Safety | UL 62368-1, CSA 62368-1, IEC/EN 62368-1, IEC 62471 |
| | Environmental | IP66 Weather Rating and IK08 Impact Rating |
| | Electromagnetic Emissions | FCC Part 15 Subpart B Class B, IC 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 |

# Outline Dimensions

## Surface Mount Outdoor Dome Camera
**(H5M-DO)**

| [X.X] | INCHES |
|-------|--------|
| X | MM |

30 [1.2]

115 [4.5]

65 [2.6]

3X ⌀ 4 [0.2]

⌀ 70 [2.8]

⌀ 100 [3.9]

⌀ 64 [2.5]
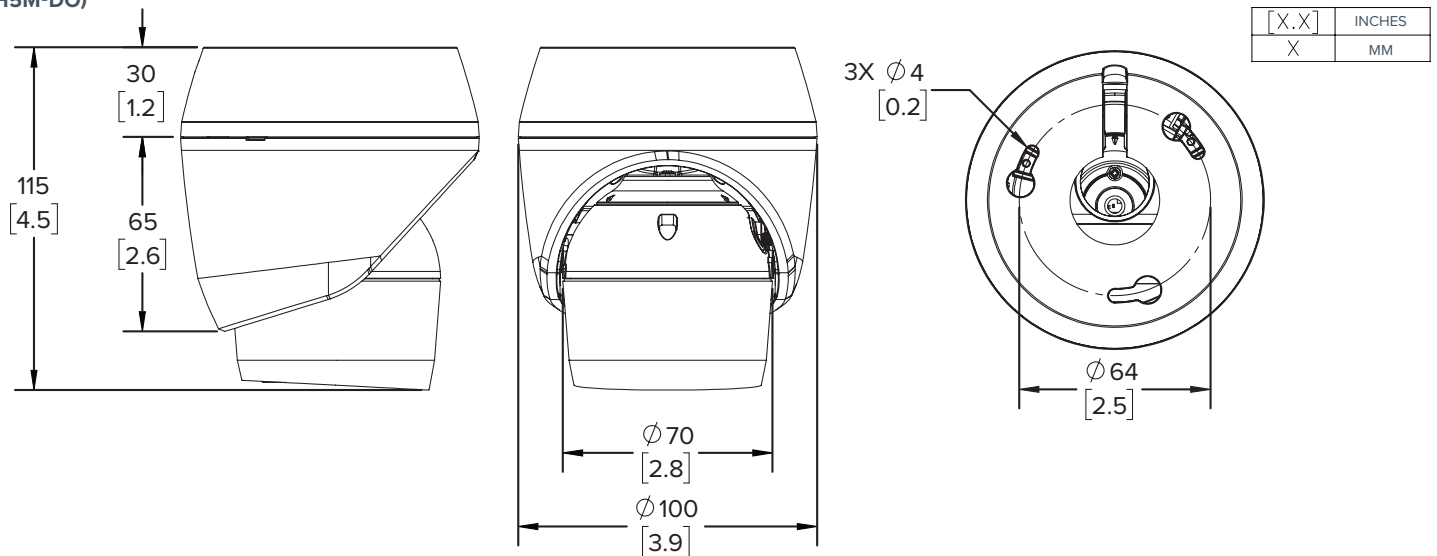
## In-Ceiling Dome Camera
**(H5M-DO + H5M-MT-DCIL1)**

79 [3.1]

162 [6.4]

65 [2.5]

⌀ 70 [2.8]

101 [4.0]

# 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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