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# H5M Dome Camera



Compliant with NDAA 2019  
Section 889



The Avigilon H5M camera provides a cost-effective solution for budget-conscious video security 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.

## 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 excellent image detail in low-light settings.

## 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.

ONVIF is a trademark of Onvif, Inc.

## H.265 AND H.264 HDSM SmartCodec™ Technology

Optimizes compression levels for regions in a scene to help maximize 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.

## 5 Year Warranty

We stand behind the quality of our H5M cameras with a 5-year, industry-leading warranty.

For more information, visit [avigilon.com/security-cameras/h5m](https://avigilon.com/security-cameras/h5m).



# Specifications

| IMAGE PERFORMANCE                              |            | 2.0 MP                                                                  | 5.0 MP                                                                    |
|------------------------------------------------|------------|-------------------------------------------------------------------------|---------------------------------------------------------------------------|
| Image Sensor                                   |            | 1/2.8" progressive scan CMOS                                            |                                                                           |
| Max Resolution (H × V) and Aspect Ratio        |            | (16:9) 1920 × 1080 (4:3) 1280 × 960 (5:4) 1280 × 1024 (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                                                                     |
|                                                | 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                                       |                                                                           |
|                                                | 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                                                          |                                                                           |



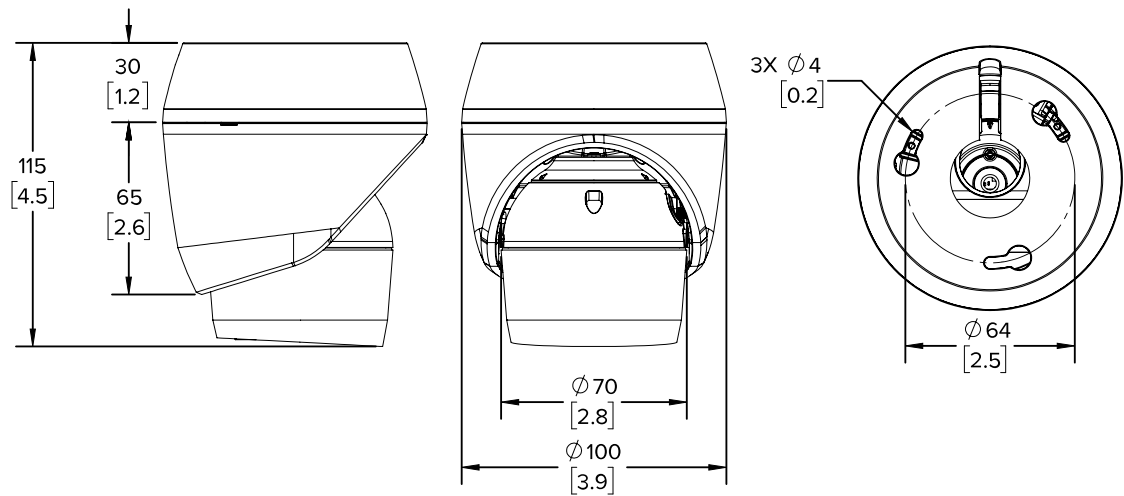
| NETWORK                     |                                                                                                                                    |                                              |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| Network                     | 100BASE-TX, RJ45 Connector, CAT5 Cabling                                                                                           |                                              |
| ONVIF                       | ONVIF compliance Profile S, Profile T ( <a href="http://www.onvif.org">www.onvif.org</a> )                                         |                                              |
| 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, IGMPv2, ICMP, DHCP, Zeroconf, ARP, HSTS                        |                                              |
| 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                                                                                                                  |                                              |
| MECHANICAL                  | SURFACE MOUNT                                                                                                                      | IN-CEILING MOUNT                             |
| 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                      | Plastic, injection molded, close to RAL9002                                                                                        |                                              |
| 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, RCM, EAC, KC, BIS, UKCA, NOM                                                                                    |                                              |
| 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

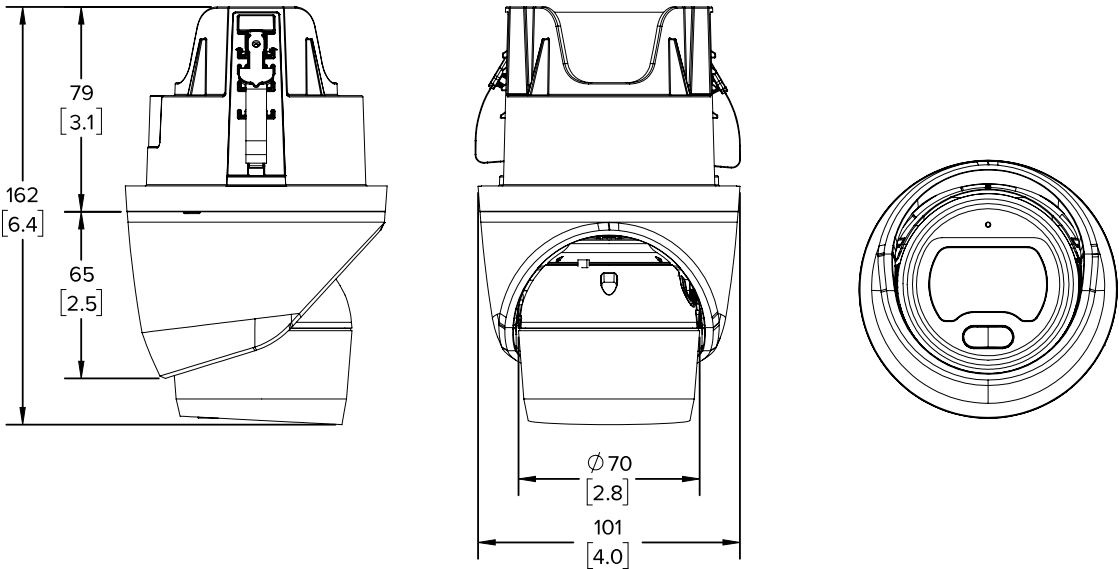
## Surface Mount Outdoor Dome Camera (H5M-DO)

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



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

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



## Ordering Information

| PART NUMBER           | MP                                                                    | WDR | LIIGHTCATCHER<br>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 | ✓  | ✓    | ✓               |
| ACCESSORY PART NUMBER |                                                                       |     |                             |        |    |      |                 |
| 2.0C-H5M-DO1-IR       | Package of 4 camera shroud replacement parts for the H5M dome cameras |     |                             |        |    |      |                 |
| 5.0C-H5M-DO1-IR       | In-ceiling mount adapter for H5M dome cameras                         |     |                             |        |    |      |                 |

## Support

For product support, visit: [avigilon.com](http://avigilon.com) or [sales@avigilon.com](mailto:sales@avigilon.com).

