

# H6 Mini Dome Camera

2 MP

3 MP

5 MP

The Avigilon H6 Mini Dome brings an exceptional level of protection to indoor spaces with high-resolution images of up to 5 MP, a wide field of view and efficient bandwidth management in a compact design. This makes it an ideal solution for retail, commercial, hospitality and general indoor applications that require a small footprint, fixed lens camera without compromising on interior aesthetics.



## Features



### Next-Generation Video Analytics

Detects more objects with expanded object classifications and greater accuracy for faster responses, even in crowded scenes.



### Optional IR Illuminators

Offers excellent image detail in low-light settings.



### WIDE DYNAMIC RANGE

Captures high-quality image details in scenes with both very bright and very dark areas.



### ONVIF® COMPLIANT

ONVIF Profile S, T, G, and M compliance allows easy integration with existing ONVIF infrastructures.



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

Optimizes compression levels for regions in a scene to help maximize bandwidth savings and keep internet connectivity costs down.



### Wide Field of View

Provides superior situational awareness of a facility with two fixed lens options available: 2.9 mm and 2.4 mm.



### Quick & Easy Installation

The camera's modular design allows it to snap into various indoor mounting options for fast and easy installations.



### FIPS 140-2 Compliant

Brings increased data security with FIPS-compliant cryptography enabled on cameras.<sup>1</sup>

<sup>1</sup> Optional purchase of FIPS Level 1 camera license.

ONVIF is a trademark of Onvif, Inc.

# Specifications

| Image Performance         |           | 2.0 MP                                      | 3.0 MP   | 5.0 MP   |
|---------------------------|-----------|---|--|--|
| Image Sensor              |           | 1/2.8" Progressive Scan CMOS                |  |  |
| Imaging Area              |           | 4.8 mm x 2.7 mm; 0.189" x 0.106"            | 5.18 mm x 3.89 mm; 0.204" x 0.153"   |  |
| Max Image Rate            |           | (50 Hz/60 Hz): 25 fps/30 fps                |  |  |
| Streaming Resolutions     | Primary   | 1920 x 1080                                 | 2048 x 1536; 1920 x 1080   | 2592 x 1944; 2048 x 1536; 2560 x 1440; 1920 x 1080                                     |
|                           | Secondary | 720 x 480; 640 x 360; 512 x 288; 384 x 216  | 720 x 536; 640 x 480; 512 x 384; 384 x 288; 720 x 480; 640 x 360; 512 x 288; 384 x 216 | 720 x 536; 640 x 480; 512 x 384; 384 x 288; 720 x 480; 640 x 360; 512 x 288; 384 x 216 |
| Dynamic Range             | WDR Off   | 100 dB                                      |  |  |
|                           | WDR On    | 120 dB                                      |  |  |
| Camera Operating Mode     |           | N/A   |  | Full Feature / High Framerate  |
| Bandwidth Management      |           | HDSM SmartCodec technology; Idle scene mode |  |  |
| 3D Noise Reduction Filter |           | Yes   |  |  |

| Lens and IR Illumination                 |            | 2.0 MP   | 3.0 MP   | 5.0 MP |
|--|------------|--|--|--------|
| Lens                                     |            | 2.95 mm  | D1 2.95 mm<br>D2 2.4 mm  |        |
| IR Illumination (high power 850 nm LEDs) |            | 10 m (33 ft) max. distance at 0 lux                  |  |        |
| Minimum Illumination                     | With IR    | 0  |  |        |
|  | Without IR | 0.005 lux in monochrome mode; 0.01 lux in color mode | 0.01 lux in monochrome mode; 0.02 lux in color mode              |        |
| Horizontal Angle of View (HFOV)          |            | (16:9) 108 °   | D1 (4:3) 100 ° D1 (16:9) 100 °<br>D2 (4:3) 123 ° D2 (16:9) 123 ° |        |
| Vertical Angle of View (VFOV)            |            | (16:9) 61 °  | D1 (4:3) 75 ° D1 (16:9) 54 °<br>D2 (4:3) 93 ° D2 (16:9) 69 °     |        |
| Max Aperture                             |            | F2.0   | D1 F2.0<br>D2 F2.1   |        |
| Control                                  |            | Fixed iris   |  |        |

| 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 motion: Selectable sensitivity and threshold. Classified Object Motion Detection. |
| Camera Tamper Detection    | Yes   |
| Electronic Shutter Control | Automatic, Manual (1/7.5 to 1/8000 sec)   |
| Iris Control               | Fixed   |
| Day/Night Control          | Automatic, Manual   |
| Flicker Control            | 50 Hz, 60 Hz  |
| White Balance              | Automatic, Manual   |
| Backlight Compensation     | Adjustable  |
| Privacy Zones              | Up to 64 zones  |

Available in USA only.

| Network                     |   |
|-----------------------------|---|
| Network                     | 100BASE-TX  |
| Cabling Type                | CAT5  |
| Connector                   | RJ-45   |
| ONVIF                       | ONVIF compliance Profile S, Profile T, Profile G, and Profile M ( <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, FIPS 140-2 L1 (with optional camera license), Signed and encrypted firmware |
| Protocols                   | IPv6, IPv4, HTTP, HTTPS, SOAP, DNS, NTP, RTSP, RTCP, RTP, TCP, UDP, IGMPv2, ICMP, DHCP, Zeroconf, HSTS, QoS, DSCP   |
| Streaming Protocols         | RTP/UDP, RTP/UDP multicast, RTP/RTSP/TCP, RTP/RTSP/HTTP/TCP, RTP/RTSP/HTTPS/TCP, HTTP, SRTP   |
| Device Management Protocols | SNMP v2c, SNMP v3   |

| Peripherals     |  |
|-----------------|--|
| Onboard Storage | microSD/microSDHC/microSDXC slot – video speed class card required. Class V10 or better recommended. |

| Mechanical             |                  | Surface Mount  | In-ceiling Mount                                   | Pendant Mount                                     |
|------------------------|------------------|--|--|---|
| Dimensions (L x W x H) | Camera Assembly: | 2.9 " x 2.9 " x 2.5 "<br>(75 mm x 75 mm x 63 mm)                       | 3.6 " x 3.6 " x 4.3 "<br>(91 mm x 91 mm x 108 mm)  | 3.1 " x 3.1 " x 6.1 "<br>(80 mm x 80 mm x 155 mm) |
|                        | Accessory Only:  | N/A  | 3.6 " x 3.6 " x 3.0 "<br>(91 mm x 91 mm x 78 mm)   | 3.1 " x 3.1 " x 4.1 "<br>(80 mm x 80 mm x 103 mm) |
| Weight                 |                  | 166 g (318 g in box)   | 54 g (160 g in box; 190 g assembled)               | 82 g (183 g in box; 218 g assembled)              |
| Max. Ceiling Thickness |                  | N/A  | 1.0" (25mm)  | N/A   |
| Dome Bubble            |                  | Polycarbonate  |  |   |
| Body                   |                  | Polycarbonate and aluminum   |  |   |
| Housing                |                  | Surface mount  | Recessed mount                                     | Pendant mount                                     |
| Finish                 |                  | Plastic Inj Mold close to RAL9002 (Grey) and Black*; Powdercoat Black* | Plastic Inj Mold close to RAL9002 (Grey) or Black* |   |

\*The Avigilon H6 Mini Dome camera comes with the RAL9002 (grey) bezel out of the box. The accessory H6M-BZL1-BL is required to convert the camera to black.

| Electrical              | Surface Mount  | In-Ceiling Mount | Pendant Mount |
|-------------------------|--|------------------|---------------|
| Power Consumption       | 6 W  |                  |               |
| Power Source            | PoE: IEEE 802.3af Class 2 compliant  |                  |               |
| IR Illuminator Behavior | IR illuminator will turn off if the temperature is 47 °C (117 °F) or higher. The illuminator will operate at 50% power if the temperature is between 45 °C (113 °F) and 47 °C (117 °F). Hysteresis: 2 °C (3.6 °F). |                  |               |
| Power Connector         | N/A  |                  |               |
| RTC Backup Battery      | 3 V manganese lithium  |                  |               |

| Environmental         |                                     |
|-----------------------|-------------------------------------|
| Operating Temperature | -10 °C to +50 °C (14 °F to 122 °F)  |
| Boot Temperature      | 0°C to +50 °C (32 °F to 122 °F)     |
| Storage Temperature   | -30 °C to +70 °C (-22 °F to 158 °F) |
| Humidity              | 0 - 95% non-condensing              |
| Environment           | Indoor applications                 |

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## Certifications

|                           |  |
|---------------------------|--|
| Certifications/Directives | UL, cUL, CE, ROHS, RCM, UKCA, EAC, NOM, KC, BIS  |
| Safety                    | UL 62368-1, CSA 62368-1, IEC/EN 62368-1, IEC 62471   |
| 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 55035, EN 61000-6-1   |
| Warranty                  | Limited 5 Year Warranty ( <a href="http://avigilon.com/warranty">avigilon.com/warranty</a> )                   |

# Analytics Specifications

| Supported Analytics Events    |  |
|-------------------------------|--|
| Objects in Area               | The event is triggered when the selected object type moves into the region of interest.  |
| Object Loitering              | The event is triggered when the selected object type moves into the region of interest and then stays for an extended amount of time.  |
| Objects Crossing Beam         | The event is triggered when the specified number of objects have crossed the directional beam that is configured over the camera's field of view. The beam can be unidirectional or bidirectional. |
| Object Appears or Enters Area | The event is triggered by each object that enters the region of interest. This event can be used to count objects.   |
| Object Not Present in Area    | The event is triggered when no objects are present in the region of interest.  |
| Objects Enter Area            | The event is triggered when the specified number of objects have entered the region of interest.   |
| Objects Leave Area            | The event is triggered when the specified number of objects have left the region of interest.  |
| Object Stops in Area          | The event is triggered when an object moves into a region of interest and then stops moving for the specified threshold time.  |
| Direction Violated            | The event is triggered when an object moves in the prohibited direction of travel.   |
| Tamper Detection              | The event is triggered when the scene unexpectedly changes.  |

| Supported Classified Object Types |  |
|-----------------------------------|--|
| Object Types in Outdoor Mode      | Vehicle, sub-types: Car, Truck, Bicycle, Motorcycle, Bus<br>Person |
| Object Types in Indoor Mode       | Person   |

| Teach by Example |  |
|------------------|--|
| Teach By Example | Yes, when used with Avigilon Control Center™ |

| Avigilon Control Center (ACC) Versions Supported Features |   |
|---|---|
| ACC Enterprise Edition<br>Version 6.14.12 or higher       | All supported analytic events with two types of classified objects: person or vehicle.                  |
| ACC Enterprise Edition<br>Version 7.2 or higher           | All supported analytic events with people and vehicles and all vehicle sub-types as classified objects. |

Analytic capabilities on the H6 Mini Dome Camera include Unusual Activity Detection, Classified Object Detection and Advanced Analytic Event configurations (e.g. Objects in Area).

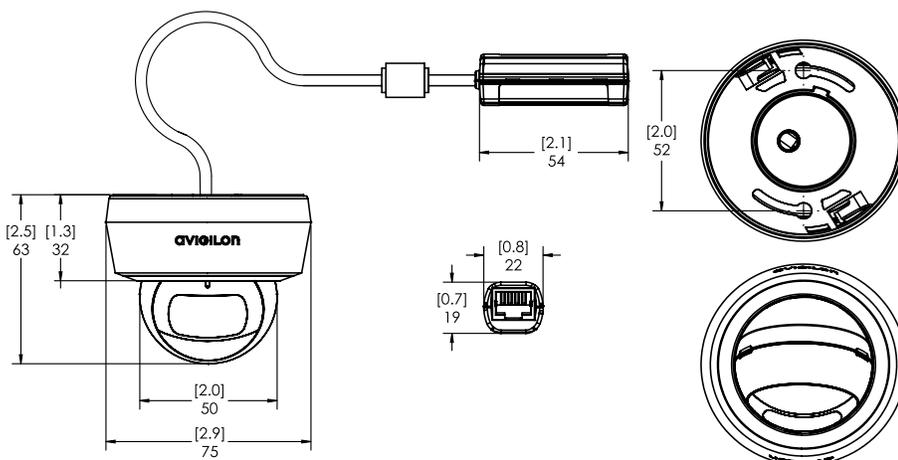
Appearance Search, Face Recognition, and other ACC server analytics are not available for use with the H6 Mini Dome Camera.

Analytics capabilities, including detection range, may vary by camera line. Consult the Avigilon Self-Learning Video Analytics Design Guide for details specific to the H6 Mini Dome Camera.

## Outline Dimensions

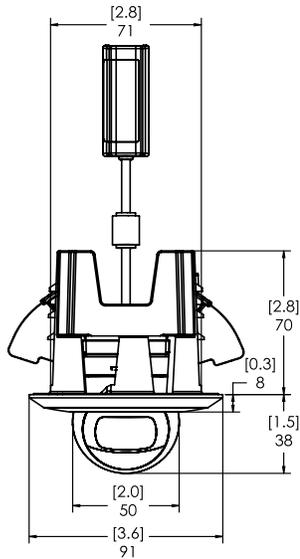
### Surface Mount

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

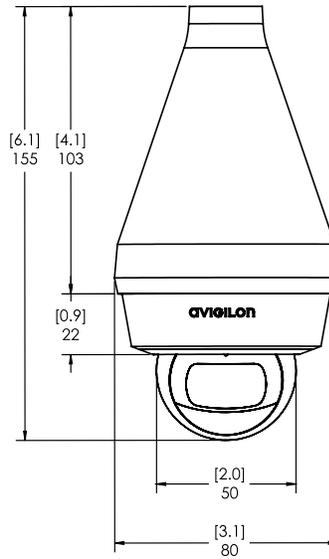


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### In-ceiling Mount



### Pendant Mount



## Ordering Information

|                              | MP                                   | WDR | LIGHTCATCHER TECHNOLOGY | LENS   | IR | HDSM SMARTCODEC |
|------------------------------|--------------------------------------|-----|-------------------------|--------|----|-----------------|
| 2.0C-H6M-D1-IR               | 2.0                                  | ✓   | ✓                       | 2.9 mm | ✓  | ✓               |
| 2.0C-H6M-D1                  | 2.0                                  | ✓   | ✓                       | 2.9 mm |    | ✓               |
| 3.0C-H6M-D1-IR               | 3.0                                  | ✓   | ✓                       | 2.9 mm | ✓  | ✓               |
| 3.0C-H6M-D1                  | 3.0                                  | ✓   | ✓                       | 2.9 mm |    | ✓               |
| 3.0C-H6M-D2-IR               | 3.0                                  | ✓   | ✓                       | 2.4 mm | ✓  | ✓               |
| 5.0C-H6M-D1-IR               | 5.0                                  | ✓   | ✓                       | 2.9 mm | ✓  | ✓               |
| 5.0C-H6M-D2-IR               | 5.0                                  | ✓   | ✓                       | 2.4 mm | ✓  | ✓               |
| H6M-BZL1-BL <sup>1</sup>     | Pack of 5 black surface mount bezels |     |                         |        |    |                 |
| H6M-BZL1-GRY                 | Pack of 5 grey surface mount bezels  |     |                         |        |    |                 |
| H6M-MT-DCIL1                 | Grey in-ceiling mount adapter        |     |                         |        |    |                 |
| H6M-MT-DCIL1-BL <sup>2</sup> | Black in-ceiling mount adapter       |     |                         |        |    |                 |
| H6M-MT-NPTA1                 | Grey pendant mount adapter           |     |                         |        |    |                 |
| H6M-MT-NPTA1-BL <sup>2</sup> | Black pendant mount adapter          |     |                         |        |    |                 |

<sup>1</sup> The Avigilon H6 Mini Dome camera comes with the RAL9002 (grey) bezel out of the box. H6M-BZL1-BL is required to convert the camera to black.

<sup>2</sup> These accessories are recommended with the purchase of the H6M-BZL1-BL, which converts the Avigilon H6 Mini Dome camera from grey to black.

## Support

Learn more and find additional documentation at [avigilon.com](http://avigilon.com) or email [sales@avigilon.com](mailto:sales@avigilon.com) for specific product support.

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**AVIGILON™**

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