H4 HD Indoor Dome Camera with Self-Learning Video Analytics



Avigilon offers a broad range of high definition cameras – from 1-5 MP and 4-7K (based on horizontal resolution) – and are available in a variety of formats, including dome, panoramic and fixed. Whether it's a small storefront that requires a few cameras or a large complex system requiring complete coverage of numerous areas, you can trust that you're getting an exceptional solution for your security needs.

The innovative H4 HD indoor dome cameras are just one way Avigilon can help provide effective monitoring and protection.





The H4 HD indoor dome cameras are a great solution for monitoring both daytime and nighttime activities. Embedded with self-learning video analytics, the H4 HD cameras seamlessly integrate with Avigilon Control Center (ACC)™, allowing security personnel to respond proactively and mitigate an incident before damage is done. They feature an integrated lens for remote focus and zoom control and are ONVIF compliant for easy integration. Avigilon's indoor dome cameras are equipped with new Triple Exposure Ultra-Wide Dynamic Range (WDR) and patented LightCatcher™ technology, ensuring you receive excellent image detail. P-Iris control also allows the cameras to automatically set their iris position to enhance image quality in all lighting conditions, while onboard storage capabilities let you manage storage directly on the cameras using a standard SD memory card. These cameras are extremely versatile and can work in almost any location, including banks, schools, retail outlets, municipal grounds and buildings, hotels, bars and restaurants.

KEY FEATURES

1-5 megapixel and 4K Ultra HD (8 MP) resolution

Patented Advanced Video Pattern Detection and Teach by Example Technology

Self-learning video analytics

Patented High Definition Stream Management (HDSM)™ Technology

Wifi camera configuration support

Available with 3-9 mm F1.3, 4.3-8 mm F1.8, or 9-22 mm F1.6 P-Iris lens with remote focus and zoom

Zoom and content adaptive integrated IR (Infared) LEDs provide uniform illumination in the dark, even at 0 lux, up to a maximum of 30 m (98 ft) away

Avigilon LightCatcher technology provides exceptional image quality in low light environments (1-5 MP models)

Triple Exposure Ultra Wide Dynamic Range (1-3 MP models)

ONVIF compliant with version 2.2.0 of the Analytics Service Specification

Factory pre-configured image preset modes for maximum image performance in a variety of lighting conditions

Idle Scene Mode lowers bandwidth and storage usage if there are no motion events detected in the scene

Full Feature or High Framerate camera operating modes (4K Ultra HD model)

Vandal resistant construction

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|---|-------------|----|-----|----|----|--------|---|-----------|
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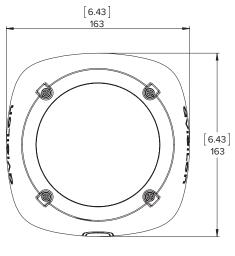
| Shecili | Cati | 0110 | 1.0 MP | 2.0 MP | 3.0 MP | 5.0 MP | 4K ULTRA HD (8.0 MP) | | | |
|------------------------|---|-------------------|---|---------------------------|---------------------------------------|---|--|--|--|--|
| IMAGE | Image Senso | or | 1/2.8" progressive | | 3.0 MF | 1/1.8" progressive scan CMOS | 1/2.3" progressive scan CMOS | | | |
| IMAGE PERFORMANCE | Aspect Ratio | | 16:9 | e scarr civios | 4:3 | 1/1.8 progressive scarr civios | 16:9 | | | |
| | Active Pixels (H x V) | | 1280 x 720 | 1920 x 1080 | 2048 x 1536 | 2592 x 1944 | 3840 x 2160 | | | |
| | | | | | | 6.22 mm x 4.66 mm | | | | |
| | Imaging Area (H x V) | | 4.8 mm x 2.7mm; 0.189" x 0.106" | | 5.12 mm x 3.84 mm; 0.202" x 0.151" | 0.245" x 0.183 | 5.95 mm x 3.35 mm 0.234" x 0.132" | | | |
| | IR Illumination (option) (High Power 850 nm LEDs) | | 30 m (98 ft) max. | distance at 0 lux | | | 15 m (50 ft) max distance at 0 lux | | | |
| | Minimum 3 - 9 mm lens: | | 0.04 lux (F1.3) in o | color mode; 0.008 | lux (F1.3) in monochrome mode | N/A | N/A | | | |
| | Illumination 4.3 - 8 mm lens: | | N/A | | , , | 0.033 lux (F1.8) in color mode; | 0.29 lux (F1.8) in color mode; | | | |
| | 9 22 mm lone: | | 0.00 km (F4.0) in | | (F4.C) in annual leading and a | 0.0066 lux (F1.8) in monochrome mode | 0.058 lux (F1.8) in monochrome mode | | | |
| | 9 - 22 mm lens: | | C | | | 0.026 lux (F1.6) in color mode; 0.005 lux (F1.6) in monochrome mode | N/A | | | |
| | Image Rate (| full resolution) | 30 fps | | 30 fps (20 fps with WDR enabled) | 30 fps | 20 fps (30 fps in High Framerate mode) | | | |
| | Dynamic Ran | nge | 67 dB | | | 83 dB | 91 dB | | | |
| | | | 1) 120 dB triple exposure (20 fps or less); 100 dB dual exposure (30 fps) | | | N/A | N/A | | | |
| | Resolution S | | Down to 768 x 43 | 32 | | Down to 1792 x 1344 | Down to 3072 x 1728 | | | |
| | Camera Ope | erating Mode | N/A | | | | Full Feature or High Framerate mode (HDSM 2.0 and analytics disabled in High Framerate mode) | | | |
| LENS | Lens | 3 - 9 mm lens: | F1.3, P-Iris, remot | e focus and zoom | 1 | | | | | |
| | | 4.3 - 8 mm lens: | F1.8, P-Iris, remot | e focus and zoon | 1 | | | | | |
| | | 9 - 22 mm lens: | F1.6, P-Iris, remot | e focus and zoon | 1 | | | | | |
| | Angle of View | 3 - 9 mm lens: | 30° – 91° | | 32° – 98° | N/A | | | | |
| | view | 4.3 - 8 mm lens: | N/A | | N/A | 46° – 86° | 44° – 81° | | | |
| | | 9 - 22 mm lens: | 14° – 29° | | 15° – 31° | 18° – 41° | N/A | | | |
| | l C | | LLOCA (MADEC A) | 2 10/AV/CV NA-+- | IDEC | | | | | |
| IMAGE CONTROL | | oression Method | | Part 10/AVC), Moti | | | | | | |
| | Streaming | 4 | | 64 and Motion JP | | ana Mada | | | | |
| | Bandwidth M | _ | | | K Ultra HD) HDSM 2.0; (ALL) Idle Sc | епе моде | | | | |
| | Motion Dete | | Pixel and Classifi | ed Objects | | | | | | |
| | | pering Detection | Yes | -1 (1/0 +- 1/0000 - | 1 | | | | | |
| | | hutter Control | | ial (1/6 to 1/8000 s | ec) | | | | | |
| | Iris Control | | Automatic, Manual Automatic, Manual | | | | | | | |
| | Day/Night Co | | | | | | | | | |
| | Flicker Conti | | 50 Hz, 60 Hz | | | | | | | |
| | White Balance | | Automatic, Manual Adjustable | | | | | | | |
| | Backlight Compensation | | | Adjustable Up to 64 zones | | | | | | |
| | Privacy Zones | | G.711 PCM 8 kHz | | | | | | | |
| | Audio Compression Method Audio Input/Output | | Line level input/output, A/V mini-jack (3.5 mm) | | | | | | | |
| | Video Output | | (1.0 - 2.0 MP only) NTSC/PAL, A/V mini-jack (3.5 mm) | | | | | | | |
| External I/O Terminals | | Alarm In, Alarm 0 | | Timing dek (3.3 min) | | | | | | |
| | USB Port | Terrinidas | USB 2.0 | - Car | | | | | | |
| NETWORK | National | | 100DACE TV | | | | | | | |
| NETWORK | Network | _ | 100BASE-TX | | | | | | | |
| | Cabling Type | | CAT5 | | | | | | | |
| | Connector | | RJ-45 ONIVIE compliant with version 102, 200 Profile S and 2,20 of the Applytics Societies and Specification | | | | | | | |
| | CINVIE | | 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 protect | tion, HTTPS encr | ption, digest authentication, WS aut | hentication, 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 Pr | rotocols | RTP/UDP, RTP/U | DP multicast, RTF | /RTSP/TCP, RTP/RTSP/HTTP/TCP, R | TP/RTSP/HTTPS/TCP, HTTP | | | | |
| | Device Mana | agement Protocols | SNMP v2c, SNMP v3 | | | | | | | |
| | | | SURFACE MC | OUNT INDOOR | DOME CAMERA | IN-CEILING DOME CAMERA | 1 | | | |
| MECHANICAL | Dimensions | (LxWxH) | 163 mm x 163 mr | m x 118 mm (6.4" x | 6.4" × 4.7") | 181 mm x 181 mm x 164 mm (7.1" x 7 | 7.1" × 6.5") | | | |
| | Weight | | 0.95 kg (2.09 lbs | 5) | | 1.6 kg (3.5 lbs) | | | | |
| | Dome Bubb | le | Polycarbonate, c | lear | | | | | | |
| | Body | | Plastic, Aluminur | n | | Plastic, Aluminum | | | | |
| | Housing | | Surface mount, t | amper resistant | | Recessed mount, tamper resistant | t | | | |
| | Finish | | Plastic, gray Plastic, gray; Aluminum, powder coat, black | | | | | | | |
| | Adjustment | Range | 360° pan, 9° - 95° tilt (30° - 95° tilt with -IR option), ±180° azimuth | | | | | | | |
| | Onboard Sto | orage | SD/SDHC/SDXC | slot – minimum c | lass 4; class 6 or better recommende | ed | | | | |
| FLECTRICAL | Power Cons | umption | 7 W (9 W for -IR o | antion) | | | | | | |
| ELECTRICAL | Power Source | • | | | in with -IR option) | PoE: IEEE802.3af Class 3 com | nnliant | | | |
| | 1 Owel Sould | | | | A min with -IR option) | 1 OL. ILLLOUZ.Sai Class 3 COII | iphant. | | | |
| | Power Conn | ector | 2-pin terminal blo | ock | | | | | | |
| | RTC Backup | Battery | 3V manganese li | ithium | | | | | | |
| ENVIRONMENTAL | VIRONMENTAL Operating Temperature -40 °C to +60 °C (-40 °F to 140 °F) (8.0 MP only) -40 °C to +50 °C (-40 °F to 122 °F) | | | | | | | | | |
| | Storage Tem | porature | (8.0 MP only) -40 -10 °C to +70 °C (| | °F to 122 °F) | | | | | |
| | Humidity | .porature | 0 - 95% non-con | | | | | | | |
| | · lumaity | | 33/6/1011-0011 | acrising | | | | | | |

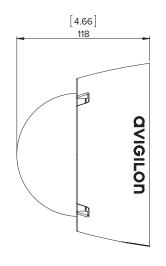
| CERTIFICATIONS | Certifications | UL | cUL | CE | ROHS | WEEE | RCM | | | |
|---------------------------|-------------------------------|--|--|---------------------|------------------|---------------------|----------------------------|--------------|--------------|--|
| | Safety | UL 60950-1 | | CSA 60950-1 | | IEC/EN 60950-1 | IEC 62471 (for -IR option) | | | |
| | Environmental | IK10 Impact Ratin | K10 Impact Rating | | | | | | | |
| | Electromagnetic Emissions | FCC Part 15 Subpart B Class B | | IC ICES-003 Class B | | EN 55022 Class B | EN 61000-6-3 | EN 61000-3-2 | EN 61000-3-3 | |
| | Electromagnetic Immunity | EN 55024 | | | | EN 61000-6-1 | | | | |
| | | | | | | | | | | |
| SUPPORTED | Objects in Area | The event is trig | gered when the se | elected object typ | e moves into the | region of interest. | | | | |
| VIDEO ANALYTICS EVENTS | Object Loitering | The event is trig | The event is triggered when the selected object type stays within the region of interest 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 in a region of interest 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. | | | | | | | | |

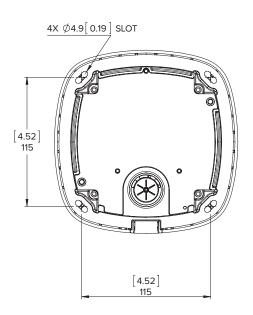
Outline Dimensions

Surface Mount Dome Camera

(H4A-D)



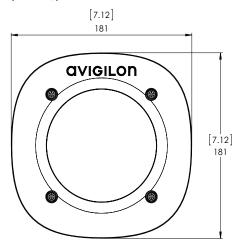


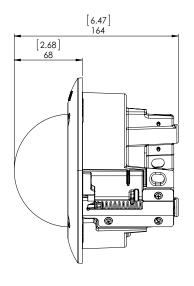


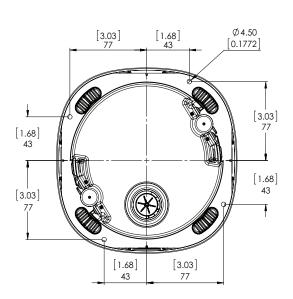
| [X.X] | INCHES |
|-------|--------|
| Χ | MM |

In-Ceiling Dome Camera

(H4A-DC)







Ordering Information

| SURFACE MOUNT INDOOR DOME CAMERAS | MP | WDR | LIGHTCATCHER | ANALYTICS | LENS | IR |
|-----------------------------------|-----|-----|--------------|-----------|------------|----|
| 1.0C-H4A-D1 | 1.0 | ✓ | ✓ | ✓ | 3 - 9 mm | |
| 1.0C-H4A-D1-IR | 1.0 | ✓ | ✓ | ✓ | 3 - 9 mm | ✓ |
| 1.0C-H4A-D2 | 1.0 | ✓ | ✓ | ✓ | 9 - 22 mm | |
| 2.0C-H4A-D1 | 2.0 | ✓ | ✓ | ✓ | 3 - 9 mm | |
| 2.0C-H4A-D1-IR | 2.0 | ✓ | ✓ | ✓ | 3 - 9 mm | ✓ |
| 2.0C-H4A-D2 | 2.0 | ✓ | ✓ | ✓ | 9 - 22 mm | |
| 3.0C-H4A-D1 | 3.0 | ✓ | ✓ | ✓ | 3 - 9 mm | |
| 3.0C-H4A-D1-IR | 3.0 | ✓ | ✓ | ✓ | 3 - 9 mm | ✓ |
| 3.0C-H4A-D2 | 3.0 | ✓ | ✓ | ✓ | 9 - 22 mm | |
| 5.0L-H4A-D1 | 5.0 | | ✓ | ✓ | 4.3 - 8 mm | |
| 5.0L-H4A-D2 | 5.0 | | ✓ | ✓ | 9 - 22 mm | |
| 5.0L-H4A-D1-IR | 5.0 | | ✓ | ✓ | 4.3 - 8 mm | ✓ |
| 8.0-H4A-D1 | 8.0 | | | ✓ | 4.3 - 8 mm | |
| 8.0-H4A-D1-IR | 8.0 | | | ✓ | 4.3 - 8 mm | ✓ |

| H4A-DD-SMOK1 | Indoor Dome Camera Cover with Smoked Bubble |
|-----------------|--|
| H4A-DD-CLER1 | Indoor Dome Camera Cover with Clear Bubble |
| H4A-DD-SMOK1-BL | Black Indoor Dome Camera Cover with Smoked Bubble |
| H4A-DD-CLER1-BL | Black Indoor Dome Camera Cover with Clear Bubble |
| H4A-DD-SDWL1 | Indoor Dome Camera Sidewall Knockout Plug, Pack of 5 |
| H4A-DD-SDWL1-BL | Indoor Black Dome Camera Sidewall Knockout Plug, Pack of 5 |
| H4A-AC-GROM1 | Camera Sealing Grommet, Pack of 10 |
| H4-AC-WIFI1-NA | USB Wifi Adapter |
| CM-AC-AVIO1 | 3.5 mm Jack with 1.8 m Fly Wires |

| IN-CEILING DOME CAMERAS | MP | WDR | LIGHTCATCHER | ANALYTICS | LENS |
|-------------------------|-----|-----|--------------|-----------|------------|
| 1.0C-H4A-DC1 | 1.0 | ✓ | ✓ | ✓ | 3 - 9 mm |
| 1.0C-H4A-DC2 | 1.0 | ✓ | ✓ | ✓ | 9 - 22 mm |
| 2.0C-H4A-DC1 | 2.0 | ✓ | ✓ | ✓ | 3 - 9 mm |
| 2.0C-H4A-DC2 | 2.0 | ✓ | ✓ | ✓ | 9 - 22 mm |
| 3.0C-H4A-DC1 | 3.0 | ✓ | ✓ | ✓ | 3 - 9 mm |
| 3.0C-H4A-DC2 | 3.0 | ✓ | ✓ | ✓ | 9 - 22 mm |
| 5.0L-H4A-DC1 | 5.0 | | ✓ | ✓ | 4.3 - 8 mm |
| 5.0L-H4A-DC2 | 5.0 | | ✓ | ✓ | 9 - 22 mm |
| 8.0-H4A-DC1 | 8.0 | | | ✓ | 4.3 - 8 mm |

| In-Ceiling Dome Camera Cover with Smoked Bubble |
|---|
| In-Ceiling Dome Camera Cover with Clear Bubble |
| Black In-Ceiling Dome Camera Cover with Smoked Bubble |
| Black In-Ceiling Dome Camera Cover with Clear Bubble |
| Metal Ceiling Panel |
| Camera Sealing Grommet, Pack of 10 |
| USB Wifi Adapter |
| 3.5 mm Jack with 1,8 m Fly Wires |
| |