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
Specifications

H4 HD CAMERA SERIES

Image Control

Image Compression Method
H.264 (MPEG-4 Part 10/AVC), Motion JPEG

Streaming
Multi-stream H.264 and Motion JPEG

Bandwidth Management
(1.0 - 2.0 MP) HDSM; (5.0 MP and 4K Ultra HD) HDSM 2.0; (ALL) Idle Scene Mode

Motion Detection
Pixel and Classified Objects

Camera Tampering Detection
Yes

Electronic Shutter Control
Automatic, Manual (1/6 to 1/8000 sec)

Iris Control
Automatic, Manual

Day/Night Control
Automatic, Manual

Flicker Control
50 Hz, 60 Hz

White Balance
Automatic, Manual

Backlight Compensation
Adjustable

Privacy Zones
Up to 64 zones

Audio Compression Method
G.711 PCM 8 kHz

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 Out

USB Port
USB 2.0

Network

100BASE-TX

Cabling Type
CAT5

connector
RJ-45

ONVIF
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 protection, HTTPS encryption, digest authentication, WS authentication, user access log, 802.1x port based authentication

Protocol
IPv4, HTTPS, HTTP, ICMP, 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/UDP, RTP/RTSP/HTTPS/UDP, RTP/RTSP/HTTPS/ HTTP

Device Management Protocols
SNMP v2c, SNMP v3

Mechanical

Surface Mount Indoor Dome Camera

Dimensions (LxWxH)
163 mm x 163 mm x 118 mm (6.4” x 6.4” x 4.7”)

Weight
0.95 kg (2.09 lbs)

Dome Bubble
Polycarbonate, clear

Body
Plastic, Aluminum

Housing
Surface mount, tamper resistant

Finish
Plastic, gray

Adjustment Range
360° pan, 9° - 95° tilt (30° - 95° tilt with -IR option), +/-180° azimuth

Onboard Storage
SD/SDHC/SDXC slot – minimum class 4, class 6 or better recommended

Ceiling Mount Dome Camera

Dimensions (LxWxH)
181 mm x 181 mm x 164 mm (7” x 7” x 6.5”)

Weight
1.6 kg (3.5 lbs)

Dome Bubble
Polycarbonate, clear

Body
Plastic, Aluminum

Housing
Surface mount, tamper resistant

Finish
Plastic, gray

Adjustment Range
360° pan, 9° - 95° tilt (30° - 95° tilt with -IR option), +/-180° azimuth

Onboard Storage
SD/SDHC/SDXC slot – minimum class 4, class 6 or better recommended

Electrical

Power Consumption
7 W (8 W for -IR option)

Power Source
VDC: 12 V +/- 10%, 7 W min (9 W min with -IR option)

Power Connector
2-pin terminal block

RTC Backup Battery
3V manganese lithium

Environmental

Operating Temperature
-40° C to +60° C (-40° F to 140° F)

Storage Temperature
-10° C to +70° C (14° F to 158° F)

Humidity
0 - 95% non-condensing
H4 HD CAMERA SERIES

**Certifications**

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<th>Category</th>
<th>UL</th>
<th>cUL</th>
<th>CE</th>
<th>ROHS</th>
<th>WEEE</th>
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**Supported Video 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 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)

![Surface Mount Dome Camera Diagram](image1)

**In-Ceiling Dome Camera**

(H4A-DC)

![In-Ceiling Dome Camera Diagram](image2)
## Ordering Information

### SURFACE MOUNT INDOOR DOME CAMERAS

<table>
<thead>
<tr>
<th>Model</th>
<th>MP</th>
<th>WDR</th>
<th>LIGHTCATCHER</th>
<th>ANALYTICS</th>
<th>Lens</th>
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### IN-CEILING DOME CAMERAS

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### In-Ceiling Dome Camera Cover with Smoked Bubble
- **H4A-DD-SMOK1**
- **H4A-DD-SMOK1-BL**

### In-Ceiling Dome Camera Cover with Clear Bubble
- **H4A-DD-CLER1**
- **H4A-DD-CLER1-BL**

### Indoor Dome Camera Cover with Smoked Bubble
- **H4A-DD-SMOK1**
- **H4A-DD-SMOK1-BL**

### Metal Ceiling Panel
- **H4A-DC-CPL1**

### Camera Sealing Grommet, Pack of 10
- **H4A-AC-GROM1**
- **H4A-AC-GROM1-NA**

### Camera Sealing Grommet, Pack of 10
- **H4A-AC-GROM1**
- **H4A-AC-GROM1-NA**

### 3.5 mm Jack with 1.8 m Fly Wires
- **CM-AC-AVIO1**
- **CM-AC-AVIO1-NA**

### Camera Sealing Grommet, Pack of 10
- **H4A-AC-GROM1**
- **H4A-AC-GROM1-NA**

### USB Wifi Adapter
- **H4-AC-WIFI1-NA**

### 3.5 mm Jack with 1.8 m Fly Wires
- **CM-AC-AVIO1**
- **CM-AC-AVIO1-NA**