



H4 Thermal Camera Line

Operating beyond the visible spectrum, the H4 Thermal camera line is designed to detect the movement of people and vehicles even in areas with poor visibility, challenging lighting conditions, absolute darkness and partly camouflaged scenes. Through Avigilon self-learning video analytics, operators receive notification of detected activity that may require further investigation, helping them take decisive action when needed.

KEY FEATURES

Avigilon
Self-Learning
Video Analytics

320x256 Uncooled
Thermal Sensor
Technology with
Athermalized Lens

IK 10 Vandal
Resistance and
IP66 Certified

BENEFITS

Combined with thermal imaging, Avigilon self-learning video analytics accurately detect the movement of people and vehicles in a wide range of environments.

Detect people and vehicles in poorly lit areas, challenging lighting conditions, and absolute darkness. Offers accurate detection even when visual camouflage or visual obscurants, such as smoke, dust and foliage, are present.

Durable, outdoor rated camera built for extended life in challenging weather and climate conditions.



H4 IR PTZ Camera Line

The Avigilon H4 IR PTZ camera line is available in 1.3 and 2 MP camera resolutions and combines self-learning video analytics with zoomable infrared (IR) technology. The H4 IR PTZ camera allows users to see up to 250 meters (820 feet) in complete darkness. The camera's IR projection angle and distance automatically adjust based on camera zoom lens movement, ensuring the scene is illuminated consistently across the field of view for high-quality, detailed images.

KEY FEATURES

Fast and Precise
Pan-Tilt-Zoom
Capabilities

Zoomable IR
Illumination

Up to 45x Zoom
Capabilities and
Continuous 360°
Rotation

Durable Vandal- and
Weather-Resistant
Housing

BENEFITS

Enables the operator to easily detect and follow a moving object with a high level of precision and control.

IR illuminator automatically adjusts the IR intensity and angle according to the field of view to help ensure that the scene is illuminated uniformly.

Enables operators to easily zoom in and out to capture and monitor activity in almost any direction. Choose from 45x zoom (1.3 MP) and 30x zoom (2 MP) lens options based on site requirements.

Available with a built in wiper to keep the window surface clear of moisture. Camera housing is dust-resistant and designed to withstand tough environments with IK 10 vandal resistance and IP66 certification.

Secured Entry Solutions

Combined with Avigilon Control Center (ACC) video management software, the Avigilon H4 Video Intercom enables operators to quickly and easily identify and communicate with a visitor before remotely granting access.



H4 Video Intercom

The H4 Video Intercom integrates a 3 MP camera with a high-performance intercom and features exceptional wide dynamic range, low-light, noise reduction and echo-cancelling technologies for clear viewing and two-way communication with visitors.

KEY FEATURES

3 MP Fisheye Lens

Avigilon Appearance Search Technology

Wide Dynamic Range, LightCatcher™ and Adaptive IR Technologies

Bi-directional Communication

Remote Entry Control

BENEFITS

Wide-angle H4 platform camera technology offers extended field of view to clearly capture individuals of different heights on video.

Incorporates the unique characteristics of a person's face — from video captured by the H4 Video Intercom — to search for the same individual even if items such as their clothing change over time.

Provides clear image detail in a broad range of challenging entrance lighting conditions, including nighttime.

Noise reduction and echo-cancelling allow clear two-way communication.

Using ACC software, operators can receive, review and respond to intercom requests and grant access to authorized individuals.

Cameras

Avigilon offers a broad range of high-definition cameras from 1 MP to 30 MP (7K) in resolution, and a variety of camera formats, including dome, bullet, and fixed.



H4 HD Pro Cameras

Avigilon Pro cameras start at 4K and go up to the industry's first single-sensor 7K (30 MP) camera, capturing high-quality, detailed images over vast areas, while providing wide area coverage options. Avigilon 4K, 4.5K, 5K, 6K and 7K cameras are built on the H4 platform, to deliver greater processing power, increased frame rates and improved image quality, while High Definition Stream Management (HDSM) and HDSM SmartCodec technologies intelligently manage storage and bandwidth.

KEY FEATURES

HDSM SmartCodec Technology

Self-Learning Video Analytics²

LightCatcher Technology

BENEFITS

HDSM SmartCodec technology automatically optimizes compression levels for regions in a scene to maximize bandwidth savings¹, minimize storage consumption and maintain high-quality imaging.

Detects and learns the surrounding scene upon initial setup, adapts to changes without manual calibration and notifies operators when important events occur.

Collects significantly more detail from a low-light scene to deliver higher quality color images with far less image noise than other low-light cameras.

¹When activated, HDSM SmartCodec technology can reduce bandwidth by up to 50 percent compared to standard H.264 compression.

²Self-learning video analytics available on all resolutions except for 6K (24 MP) and 7K (30 MP).



H4 Cameras

H4 cameras, available in 1 MP to 5 MP and 4K Ultra HD (8 MP) resolutions, operate on the Avigilon next-generation H4 platform to offer self-learning video analytics, greater resolution performance, and Wide Dynamic Range (WDR)¹ support. They also feature HDSM SmartCodec bandwidth-management technology and LightCatcher technology² for superior low-light performance.

KEY FEATURES

HDSM SmartCodec Technology

Self-Learning Video Analytics

Remote Zoom and Focus

Automatic IR Cut Filter

BENEFITS

HDSM SmartCodec technology automatically optimizes compression levels for regions in a scene to maximize bandwidth savings³, minimize storage consumption and maintain high-quality imaging.

Detects and learns the surrounding scene upon initial setup, adapts to changes without manual calibration and notifies operators when important events occur.

With remote zoom and focus included in the lens, installation only requires mounting and aiming.

Provides superior low-light performance and sensitivity to IR illuminators that enable true color imaging throughout the day.



H4 Bullet Cameras

H4 Bullet cameras, available in 1 MP to 5 MP and 4K Ultra HD (8 MP) resolutions, are suitable for seeing objects and activity in complete darkness. These cameras also feature WDR¹ support, HDSM SmartCodec technology, adaptive IR technology and innovative LightCatcher technology² for superior low-light performance.

KEY FEATURES

HDSM SmartCodec Technology

Self-Learning Video Analytics

Adaptive IR

Lens Options

BENEFITS

HDSM SmartCodec technology automatically optimizes compression levels for regions in a scene to maximize bandwidth savings³, minimize storage consumption and maintain high-quality imaging.

Detects and learns the surrounding scene upon initial setup, adapts to changes without manual calibration and notifies operators when important events occur.

Automatically adjusts the IR beam width and illumination levels to provide consistent lighting regardless of scene conditions.

3-9 mm, 9-22 mm and 4.3-8 mm lens.

¹WDR technology available on 1 MP to 3 MP models only.

²LightCatcher technology available on 1 MP to 5 MP models.

³When activated, HDSM SmartCodec technology can reduce bandwidth by up to 50 percent compared to standard H.264 compression.



H4 Dome Cameras

H4 Dome cameras, available in 1 MP to 5 MP and 4K Ultra HD (8 MP) resolutions, operate on the Avigilon H4 platform. These cameras offer WDR support, self-learning video analytics, HDSM SmartCodec technology and innovative LightCatcher technology for superior low-light performance.¹



H4 Edge Solution (ES) Camera Line

The H4 ES camera line combines high-definition imaging, self-learning video analytics, network video recorder functionality, and embedded Avigilon Control Center (ACC) video management software to create an all-in-one intelligent surveillance solution. This camera line records video directly to an onboard solid-state drive, eliminates the need for a separate network video recorder and reduces installation and system costs.

KEY FEATURES

HDSM SmartCodec Technology

BENEFITS

HDSM SmartCodec technology automatically optimizes compression levels for regions in a scene to maximize bandwidth savings², minimize storage consumption and maintain high-quality imaging.

Self-Learning Video Analytics

Detects and learns the surrounding scene upon initial setup, adapts to changes without manual calibration and notifies operators when important events occur.

Optional Adaptive IR

Automatically adjusts the IR beam width and illumination levels to provide consistent lighting regardless of scene conditions.

KEY FEATURES

HDSM SmartCodec Technology

BENEFITS

HDSM SmartCodec technology automatically optimizes compression levels for regions in a scene to maximize bandwidth savings², minimize storage consumption and maintain high-quality imaging.

Self-Learning Video Analytics

Detects and learns the surrounding scene upon initial setup, adapts to changes without manual calibration and notifies operators when important events occur.

Onboard Storage

Up to 256 GB onboard storage in a solid-state drive (SSD), for continuous operation.

Video Management

Embedded with ACC video management software.

¹LightCatcher technology available on 1 MP to 5 MP models.

²When activated, HDSM SmartCodec technology can reduce bandwidth by up to 50 percent compared to standard H.264 compression.



H4 Mini Dome Camera Line

The H4 Mini Dome is the smallest and most discreet camera within the Avigilon H4 platform that combines Avigilon quality and Unusual Motion Detection (UMD) AI technology at an entry level price point. It provides exceptional image quality with an innovative and modular design that snaps into place, allowing users to easily switch between surface, in-ceiling and pendant mounts.

KEY FEATURES

Small Camera
Footprint and Profile

BENEFITS

Standard surface mount model has a footprint of only 2.8 inches, extending 2.0 inches from the installation surface. The in-ceiling adapter offers a profile of only 1.5 inches, with a footprint of 3.5 inches.

UMD Technology

Advanced AI technology that continuously learns what typical activity in a scene looks like, and then detects and flags unusual motion, without any predefined rules or setup.

HDSM SmartCodec
Technology

HDSM SmartCodec technology automatically optimizes compression levels for regions in a scene to maximize bandwidth savings¹, minimize storage consumption and maintain high-quality imaging.

Wide Dynamic
Range (WDR)

Dual exposure true Wide Dynamic Range (WDR) technology captures clear images in simultaneous dark and bright lighting conditions.

Adaptive IR
Technology

Automatically adjusts the IR beam width and illumination levels to provide consistent lighting regardless of scene conditions.



H4 SL Camera Line

The H4 SL camera is our easiest-to-install camera yet, decreasing installation time by up to 50 percent. Available in bullet and dome formats, it supports a variety of configurations, including surface, in-ceiling and pendant mounts that can easily be alternated. The H4 SL camera comes in 1.3, 2 and 3 MP camera resolutions, providing exceptional image quality in a broad range of lighting environments.

KEY FEATURES

UMD Technology

BENEFITS

Advanced AI technology that continuously learns what typical activity in a scene looks like, and then detects and flags unusual motion, without any predefined rules or setup.

HDSM SmartCodec
Technology

HDSM SmartCodec technology automatically optimizes compression levels for regions in a scene to maximize bandwidth savings¹, minimize storage consumption and maintain high-quality imaging.

Quick and Flexible
Installation

The H4 SL camera's modular design enables it to snap into the base of your choice.

Exceptional
Image Quality

Using LightCatcher, Content Adaptive Infrared (IR) and Dual Exposure WDR technologies, our 1.3, 2 and 3 MP H4 SL cameras provide exceptional image quality in a broad range of lighting environments.

¹When activated, HDSM SmartCodec technology can reduce bandwidth by up to 50 percent compared to standard H.264 compression.



H4 Multisensor Camera Line

The H4 Multisensor camera line combines Avigilon self-learning video analytics with exceptional coverage, featuring 3 or 4 individually configurable camera sensors that can move on three axes for a variety of coverage options in a wide range of environments. Each camera sensor incorporates patented Avigilon self-learning video analytics and works with Avigilon Appearance Search technology.

KEY FEATURES

Self-Learning Video Analytics

BENEFITS

Each sensor detects the movement of people and vehicles to notify you of critical events that may need further investigation and Avigilon Appearance Search technology enables you to search site-wide for a person or vehicle of interest.

Up to 32 MP Total Resolution

Provides exceptional coverage and image detail by combining the power of three or four multi-megapixel camera sensors.

H.265 Compression Technology

Significantly reduces bandwidth and storage requirements while maintaining clear, detailed images.

Content Adaptive IR Technology

Provides up to 30 meters (100 feet) of consistent lighting and exceptional imaging in low light conditions.

Interchangeable Camera Mounts

Pendant, in-ceiling and surface mounting options available.



H3 Multisensor Camera Line

The H3 Multisensor camera delivers superior image detail and offers a flexible approach to covering vast areas. Available in 9 and 12 MP sensor options, each equipped with a remote zoom and focus lens, one H3 Multisensor dome can replace a PTZ camera or multiple fixed cameras.

KEY FEATURES

Superior Image Detail

BENEFITS

Available in 9 MP or 12 MP resolutions for high-definition imaging, all powered by HDSM technology.

Flexible Installation

Manually configurable sensors move on three axes for a variety of coverage options in virtually any environment.

Remote Zoom and Focus

With remote zoom and focus included in the lens, installation only requires mounting and aiming.



H4 Fisheye Camera Line

The H4 Fisheye camera line offers a high-resolution, 360-degree panoramic view with no blind spots. Available in 6 and 12 MP camera resolutions, this cost-effective, easy-to-install solution provides broad coverage with fewer cameras.

KEY FEATURES

HDSM SmartCodec Technology

Fisheye Lens

Adaptive IR Technology

High Frame Rate Support

BENEFITS

Automatically optimizes compression levels for regions in a scene to maximize bandwidth savings¹, minimize storage consumption and maintain high-quality imaging.

High-resolution 360-degree panoramic view of a scene with no blind spots.

Automatically adjusts the IR beam width and illumination levels to provide consistent lighting regardless of scene conditions.

Available in 6 and 12 MP camera resolutions, providing leading frame rates of up to 30 and 20 frames per second (fps) respectively.



H4 PTZ Camera Line

The H4 PTZ camera line combines high performance with self-learning video analytics, providing users the versatility, functionality and intelligence to proactively respond to events as they occur. The H4 PTZ camera line is available in 1 and 2 MP camera resolutions, both featuring continuous 360° rotation, enabling operators to track activity in any direction and collect detailed video evidence.

KEY FEATURES

HDSM SmartCodec Technology

Self-Learning Video Analytics

High Frame Rate

Up to 45x Zoom

BENEFITS

Automatically optimizes compression levels for regions in a scene to maximize bandwidth savings¹, minimize storage consumption and maintain high-quality imaging.

Can detect and learn the home position scene upon initial setup, adapts to changes without manual calibration and notifies operators when important events occur.

Up to 60 frames per second (fps) for highly detailed imaging of fast-moving objects.

For high-quality, detailed images when zooming in.

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¹When activated, HDSM SmartCodec technology can reduce bandwidth by up to 50 percent compared to standard H.264 compression.