



## Video Surveillance Solutions

**Product Brochure** 



Avigilon, a Motorola Solutions company, designs, develops, and manufactures solutions in video analytics, network video management software and hardware, surveillance cameras, and access control.

Our solutions have been installed at thousands of customer sites, including school campuses, transportation systems, healthcare centers, public venues, critical infrastructure, prisons, factories, casinos, airports, financial institutions, government facilities, and retailers.

With manufacturing facilities in Plano, United States, and Richmond, Canada, as well as regional offices around the world, Avigilon solutions are sold and supported throughout the global security market.

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## Exceptional Customer Service

Avigilon provides extensive customer service and 24/7 technical support (by phone or online chat) for installed hardware and software. Advance replacement is available for products under warranty and we offer hassle-free returns under our return policy to ensure you are satisfied with your Avigilon solutions.



# North American Manufacturing Facilities

Avigilon is proud to be a North American manufacturer of trusted security solutions, with Canadian and American expertise and globally sourced materials. Our state-of-the-art facilities in Richmond, British Columbia, and Plano, Texas ensure quality control and efficiency throughout the manufacturing process. By manufacturing in North America we are better able to control every aspect of the process, while continually enhancing the customer's experience.





# Changing the Way You Interact with Your Security System

We believe powerful software doesn't have to be complicated. That's why Avigilon Control Center (ACC) 6, our latest and most advanced video management software, allows you to manage and search video with a simplified screen layout, intuitive controls, and easy-to-use interface, so you can focus on what is most important.

## Avigilon Control Center (ACC) Software

ACC software efficiently captures and stores video while intelligently managing bandwidth and storage using High Definition Stream Management (HDSM)™ technology.

Pre-installed on HD Video Appliances, HD Network Video Recorders (NVRs), HD NVR Workstations, ACC Edge Solution (ES) HD hardware, and the H4 Edge Solution (ES) camera line, ACC software also works as standalone software to meet the needs of a wide variety of installations.



#### **Newest Features Available in ACC 6.10 Software**



#### License Plate Reader (LPR) Analytics

Upgraded LPR analytics engine with increased vehicle license plate identification, capture, and accuracy performance for faster security response.



#### Avigilon Access Control Manager (ACM) System Integrations

Receives, processes, and acts on  $ACM^{\text{m}}$  door events, hardware input events, and access grants, enabling operators to unlock access doors directly from a camera view.



#### **Identity Verification**

New Identity Verification feature enables users to see ACM credentials dynamically displayed with ACC camera views.

# Solutions that Help Bring Focus and Attention to What's Important

At Avigilon, we believe that deep-learning artificial intelligence (AI) has the potential to solve some of the most critical challenges our industry faces today. By applying AI to our video analytics technology, we can focus human attention on what matters most, so our systems can provide powerful insights for effective decision making.



## Avigilon Self-Learning Video Analytics

Avigilon self-learning video analytics solutions can monitor an area 24/7/365, enabling proactive, real-time response from your team.

Built from the ground up to manage high-definition video, Avigilon offers analytics embedded in Avigilon cameras up to 5K (16 MP) resolution, with analytics events and alarms that can be managed, viewed, and searched through an intuitive user interface.

#### **Detect People and Vehicles**

Avigilon self-learning video analytics technology uses advanced video pattern-based algorithms to recognize and detect the movements and characteristics of people and vehicles.

#### Fast and Easy to Install

Self-learning video analytics technology is designed to detect and learn the surrounding scene upon initial set up, adapting to changes without manual calibration.



## Enhanced Bandwidth Management

Avigilon cameras and software offer exceptional high-definition video quality while reducing bandwidth from the camera to the Avigilon Control Center (ACC) client.

## Idle Scene Mode Technology

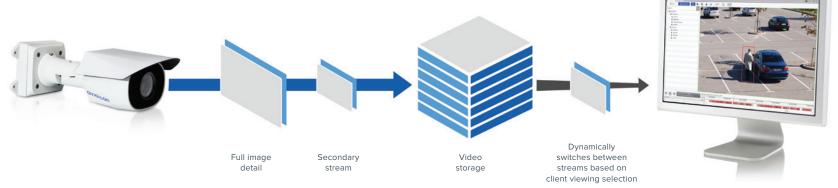
Idle Scene Mode technology allows the camera to reduce storage and bandwidth for continuous recording of scenes with no activity. When there is no classified object detection or pixel change motion, the camera will conserve bandwidth by switching to a reduced frame rate.

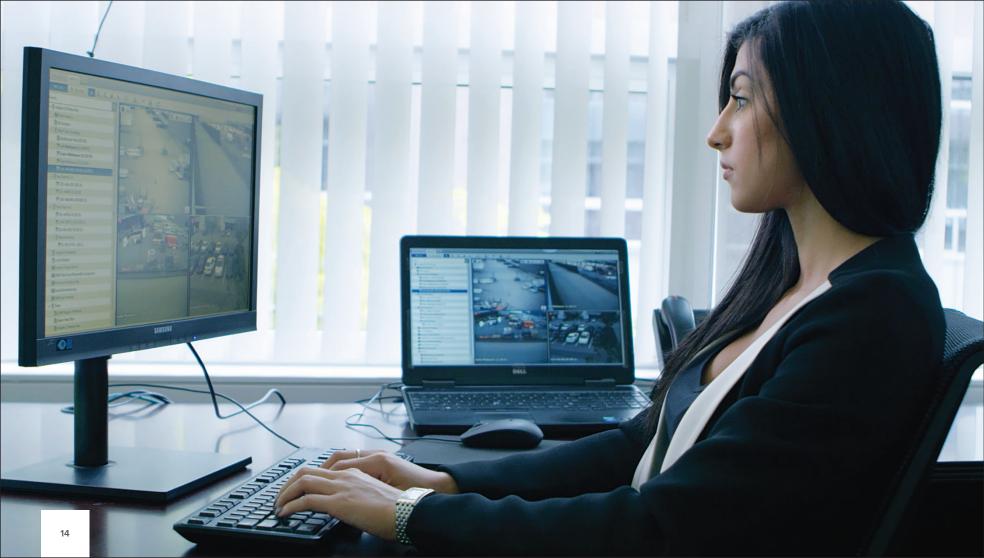
## HDSM SmartCodec<sup>™</sup> Technology

HDSM SmartCodec technology enables Avigilon H4 Platform cameras to enhance compression levels for regions in a scene to reduce bandwidth by up to 50 percent compared to standard H.264 compression.

## High Definition Stream Management (HDSM) Technology

HDSM technology reduces bandwidth from server to client by dynamically sending the optimal image detail for the user's viewing requirements.





## Enabling Faster, More Efficient Video Search

Avigilon is rapidly expanding its artificial intelligence driven video analytics technology to allow users to quickly search volumes of video data to identify important information. Our new search features are designed to enhance the way users interact with their systems, dramatically improve event response times and help make video actionable.

## Avigilon Appearance Search™ Technology

Avigilon Appearance Search technology is the new way to search video. This innovative, deep learning, artificial intelligence search engine sorts through hours of footage with ease to quickly locate a specific person or vehicle of interest across an entire site.

It dramatically improves incident response time and enhances forensic investigations by enabling operators to build robust video evidence and create a powerful narrative of events.





#### Search for a person by physical description

Operators can search for a person of interest by selecting certain specific physical descriptions, including clothing color and gender. The new feature is designed to provide enhanced flexibility and speed when conducting a site-wide search for an individual.

#### Face analytics are included in search

Avigilon Appearance Search technology now incorporates the characteristics of a person's face to improve search results when searching for a specific individual even if items, such as their clothing, change over time.

## Unusual Motion Detection (UMD) Technology

UMD is an advanced artificial intelligence (AI) technology that brings a new level of automation to surveillance and is designed to reveal events that may have otherwise been missed.

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

This allows operators to search through large volumes of footage faster, as UMD focuses their attention on the atypical events that may need further investigation, reducing hours of work to minutes.





## Technologies that Conquer the Dark

When it comes to video surveillance, lighting is one of the most important factors in image quality. As lighting conditions fade and shift depending on the time of day and environmental factors, a surveillance camera's ability to capture evidentiary detail can decrease. Our new H4 IR PTZ and H4 Thermal camera lines help overcome challenging lighting conditions, and environmental factors like smoke and fog. Both cameras combine exceptional image performance with on-board patented Avigilon self-learning video analytics to help operators detect, verify, and act on events in challenging lighting conditions.





## 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.

| <b>KEY FEATURES</b>  | BENEFITS  |
|--|---|
| Avigilon<br>Self-Learning<br>Video Analytics                               | Combined with thermal imaging, Avigilon self-learning video analytics accurately detect the movement of people and vehicles in a wide range of environments.  |
| 320x256 Uncooled<br>Thermal Sensor<br>Technology with<br>Athermalized Lens | 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. |
| IK 10 Vandal<br>Resistance and<br>IP66 Certified                           | 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          | <b>BENEFITS</b> Enables the operator to easily detect and follow a moving object with a high level of precision and control.   |
|--|---|--|
|  | Zoomable IR<br>Illumination                                       | IR illuminator automatically adjusts the IR intensity and angle according to the field of view to help ensure that the scene is illuminated uniformly.   |
|  | Up to 45x Zoom<br>Capabilities and<br>Continuous 360°<br>Rotation | 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.                  |
|  | Durable Vandal- and<br>Weather-Resistant<br>Housing               | 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. |

## Avigilon Presence Detector (APD) Radar Sensor

The APD™ is a sensor that combines self-learning analytics with impulse radar technology to detect the presence of a person with up to 99% accuracy, even if they have stopped moving or are hidden. Because it does not rely on visual data, the APD sensor can operate in complete darkness and in situations where information privacy is a factor.



This sensor is designed for indoor locations such as ATM rooms and other closed indoor vestibules within banks, pharmacies, retail stores, and health care facilities.

| KEY FEATURES Accurate Detection | <b>BENEFITS</b> Extremely high accuracy in detecting the presence of a person at distances up to 9 meters from the sensor.  |
|---------------------------------|---|
| Small and Discreet              | Can be hidden above ceiling panels or behind interior walls.  |
| Ensures Complete Privacy        | No ability to see ATM keypad or faces.  |
| Impulse Radar Technology        | Can be used in constrained environments and those with challenging conditions. Has the ability to detect presence through blankets, cardboard, wood and drywall.          |
| Intelligent Analytics           | The indoor impulse radar sensor, combined with Avigilon self-learning analytics, scans and learns the environment, continuously adapting to reduce false positive events. |

#### Cameras

Avigilon offers a broad range of high-definition cameras – from 1 MP to 5 MP and 4K to 7K – that are available in a variety of formats, including dome, bullet and fixed.



#### 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. Combined with Avigilon Control Center (ACC) video management software, this secured entry system enables operators to quickly and easily identify and communicate with a visitor before remotely granting access.

|  | <b>KEY FEATURES</b> 3 MP fisheye lens                                | <b>BENEFITS</b> Wide-angle H4 platform camera technology offers extended field of view to clearly capture individuals of different heights on video.   |
|--|--|--|
|  | Avigilon Appearance<br>Search technology                             | 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. |
|  | Wide Dynamic Range,<br>LightCatcher™ and<br>adaptive IR technologies | Provides clear image detail in a broad range of challenging entrance lighting conditions, including nighttime.   |
|  | Bi-directional communication   | Noise reduction and echo-cancelling allow clear two-way communication  |
|  | Remote entry control   | Using ACC software, operators can receive, review, and respond to intercom requests and grant access to authorized individuals.  |



#### 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<br>HDSM SmartCodec<br>Technology | <b>BENEFITS</b> HDSM SmartCodec technology automatically optimizes compression levels for regions in a scene to maximize bandwidth savings <sup>1</sup> , minimize storage consumption and maintain high-quality imaging. |
|---|---|
| Self-Learning<br>Video Analytics <sup>2</sup> | Detects and learns the surrounding scene upon initial setup, adapts to changes without manual calibration and notifies operators when important events occur.   |
| LightCatcher<br>Technology                    | 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.  |



#### 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.<sup>1</sup>

| KEY FEATURES<br>HDSM SmartCodec<br>Technology | BENEFITS  HDSM SmartCodec technology automatically optimizes compression levels for regions in a scene to maximize bandwidth savings <sup>1</sup> , minimize storage consumption and maintain high-quality imaging. |
|---|---|
| Self-Learning<br>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.  |



#### 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<br>HDSM SmartCodec<br>Technology | 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. |
|---|--|
| Self-Learning<br>Video Analytics              | Detects and learns the surrounding scene upon initial setup, adapts to changes without manual calibration and notifies operators when important events occur.  |
| Remote Zoom<br>and Focus                      | With remote zoom and focus included in the lens, installation only requires mounting and aiming.   |
| Automatic IR<br>Cut Filter                    | 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<br>HDSM SmartCodec<br>Technology | 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. |
|---|--|
| Self-Learning<br>Video Analytics              | Detects and learns the surrounding scene upon initial setup, adapts to changes without manual calibration and notifies operators when important events occur.  |
| Adaptive IR                                   | Automatically adjusts the IR beam width and Ilumination levels to provide consistent lighting regardless of scene conditions.  |
| Lens Options                                  | 3-9 mm, 9-22 mm and 4.3-8 mm lens.   |

<sup>&</sup>lt;sup>1</sup>WDR technology available on 1 MP to 3 MP models only.

<sup>&</sup>lt;sup>2</sup>LightCatcher technology available on 1 MP to 5 MP models.

<sup>&</sup>lt;sup>3</sup>When 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) artificial intelligence 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<br>Small Camera<br>Footprint and Profile | <b>BENEFITS</b> 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<br>Technology                         | HDSM SmartCodec technology automatically optimizes compression levels for regions in a scene to maximize bandwidth savings <sup>1</sup> , minimize storage consumption and maintain high-quality imaging.                        |
| Wide Dynamic<br>Range (WDR)                           | Dual exposure true Wide Dynamic Range (WDR) technology captures clear images in simultaneous dark and bright lighting conditions.  |
| Adaptive IR<br>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<br>UMD Technology     | <b>BENEFITS</b> Advanced Al 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<br>Technology      | HDSM SmartCodec technology automatically optimizes compression levels for regions in a scene to maximize bandwidth savings <sup>1</sup> , minimize storage consumption and maintain high-quality imaging. |
| Quick and Flexible<br>Installation | The H4 SL camera's modular design enables it to snap into the base of your choice.  |
| Exceptional<br>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.     |



#### 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.



#### 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.



#### **HD Multisensor Cameras**

The HD Multisensor camera delivers superior image detail and offers a flexible approach to covering vast areas. Available in 3K (9 MP) or 4K (12 MP) sensor configurations, each equipped with a remote zoom and focus lens, one HD Multisensor dome can replace a PTZ camera or multiple fixed cameras.

| <b>KEY FEATURES</b>           | BENEFITS   |
|-------------------------------|--|
| HDSM SmartCodec<br>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. |
| Fisheye Lens                  | $\label{prop:linear} \mbox{High-resolution 360-degree panoramic view of a scene with no blind spots.}$   |
| Adaptive IR<br>Technology     | Automatically adjusts the IR beam width and illumination levels to provide consistent lighting regardless of scene conditions.   |
| High Frame<br>Rate Support    | Available in 6 and 12 MP camera resolutions, providing leading frame rates of up to 30 and 20 frames per second (fps) respectively.  |

| KEY FEATURES                     | BENEFITS  |
|----------------------------------|---|
| HDSM SmartCodec<br>Technology    | HDSM SmartCodec technology automatically optimizes compression levels for regions in a scene to maximize bandwidth savings <sup>1</sup> , minimize storage consumption and maintain high-quality imaging. |
| Self-Learning<br>Video Analytics | Can detect and learn the home position scene upon initial setup, adapts to changes without manual calibration and notifies operators when important events occur.   |
| High Frame Rate                  | Up to 60 frames per second (fps) for highly detailed imaging of fast-moving objects.  |
| Up to 45x Zoom                   | For high-quality, detailed images when zooming in.  |

# KEY FEATURES Superior Image Detail 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 With remote zoom and focus included in the lens, installation only requires mounting and aiming.



## 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<br>HDSM SmartCodec<br>Technology | BENEFITS  HDSM SmartCodec technology automatically optimizes compression levels for regions in a scene to maximize bandwidth savings <sup>1</sup> , minimize storage consumption and maintain high-quality imaging. |
|---|---|
| Self-Learning<br>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.  |



#### License Plate Recognition (LPR)

HD License Plate Recognition provides singleand multi-lane LPR with HD accuracy from a single camera. Fully integrated within ACC software and combined with Avigilon HD LPR Capture Kits, high-definition LPR captures license plates with high accuracy in a wide variety of conditions, 24 hours a day.

| <b>KEY FEATURES</b>                                 | BENEFITS   |
|---|--|
| High-Definition<br>Resolution                       | High-definition resolution delivers images captured in accurate and precise detail.              |
| Single Camera,<br>Multiple Lanes                    | Provides wide coverage with fewer cameras, helping to reduce installation and maintenance costs. |
| Automatic<br>Worldwide License<br>Plate Recognition | Supports a broad range of global license plate types.  |

## HD Network Video Recorders (NVRs)

Avigilon NVRs provide superior performance and reliability for video surveillance applications. All NVR models come with optimized high-performance recording technology, a three-year Avigilon warranty with dedicated support, and numerous additional features, including:

#### ACC Video Management Software

Pre-installed and pre-configured plug-and-play solution for managing multi-megapixel digital IP and analog cameras.

#### Avigilon Appearance Search Technology\*

Enables security operators to locate a specific person or vehicle of interest across an entire site.

#### **Plug-and-Play Setup**

Pre-configured operating system, hot-swappable drives, and RAID technology enables quick deployment and increases system uptime and availability.

| •  | •   |  |
|--|---|--|
| NVR Premium  | NVR Standard  | NVR Value  |
| Highest throughput, retention, and performance         | High performance with scalable storage                | Enterprise-grade storage at a lower cost of ownership    |
| 1800 Mbps maximum throughput                           | 900 Mbps maximum throughput                           | 384 Mbps maximum throughput                              |
| 157 TB maximum recording capacity RAID 6 configuration | 48 TB maximum recording capacity RAID 6 configuration | 18 TB maximum recording capacity<br>RAID 5 configuration |

| HD NVR3 Models  | Product Number    | Storage | Maximum Recording Rate               | 1-Gigabit Ethernet<br>Connections | 10-Gigabit Ethernet<br>Connections |
|-----------------|-------------------|---------|--------------------------------------|-----------------------------------|------------------------------------|
| HD NVR Premium  | HD-NVR4-PRM-157TB | 157 TB  | 10 GbE: 1450 Mbps<br>1 GbE: 600 Mbps | 4                                 | 2                                  |
|                 | HD-NVR4-PRM-128TB | 128 TB  | 10 GbE: 1450 Mbps<br>1 GbE: 600 Mbps | 4                                 | 2                                  |
|                 | HD-NVR4-PRM-96TB  | 96 TB   | 10 GbE: 1450 Mbps<br>1 GbE: 600 Mbps | 4                                 | 2                                  |
|                 | HD-NVR4-PRM-64TB  | 64 TB   | 10 GbE: 1450 Mbps<br>1 GbE: 600 Mbps | 4                                 | 2                                  |
| HD NVR Standard | HD-NVR4-STD-48TB  | 48 TB   | 1 GbE: 450 Mbps                      | 4                                 | Optional                           |
|                 | HD-NVR4-STD-32TB  | 32 TB   | 1 GbE: 450 Mbps                      | 4                                 | Optional                           |
|                 | HD-NVR4-STD-24TB  | 24 TB   | 1 GbE: 450 Mbps                      | 4                                 | Optional                           |
|                 | HD-NVR4-STD-16TB  | 16 TB   | 1 GbE: 450 Mbps                      | 4                                 | Optional                           |
| HD NVR Value    | HD-NVR3-VAL-18TB  | 18 TB   | 1 GbE: 256 Mbps                      | 2                                 | None                               |
|                 | HD-NVR3-VAL-12TB  | 12 TB   | 1 GbE: 256 Mbps                      | 2                                 | None                               |
|                 | HD-NVR3-VAL-6TB   | 6 TB    | 1 GbE: 256 Mbps                      | 2                                 | None                               |

HD NVR3 Standard and Premium models are equipped with RAID 6 video storage array and RAID 1 system drive redundancy. HD NVR3 Value models are equipped with RAID 5 video storage array.

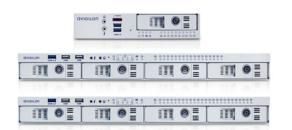
## **HD NVR Workstations**



Avigilon offers a suite of high-performance workstations to support your security system. HD NVR Workstations are configured to enable standalone viewing and recording from a single machine. HD Remote Monitoring Workstations add another viewing station to your system with support for up to four high-resolution monitors, and up to 144 video streams.

| HD NVR Workstation   | HD-NVRWS3-8TB          |
|--|------------------------|
| Storage  | 8 TB                   |
| Monitor Outputs  | 2                      |
| Gigabit Ethernet Connections                               | 2                      |
| System Drives  | 1                      |
|  |                        |
| 4 Monitor Remote Monitoring Workstation                    | HD-RMWS3-4MN           |
| 4 Monitor Remote Monitoring Workstation  Number of Cameras | Up to 144              |
| <u> </u>   |                        |
| Number of Cameras  | Up to 144              |
| Number of Cameras  Maximum Resolution                      | Up to 144<br>2560x1600 |

## HD Video Appliances



The Avigilon HD Video Appliance is a powerful security combination that offers a video recorder, network switch and storage, all integrated into a single easy-to-install solution. This simplified system design reduces costs and installation times, helping you avoid the issues typically associated with installing a full security system.

| KEY FEATURES                              | BENEFITS   |
|---|--|
| Pre-loaded with<br>ACC Software           | Reduces setup time and provides quicker access to high-definition video footage. |
| Embedded PoE<br>Managed Switch            | Quick and easy installation, with 8, 16 and 24 port options.                     |
| Range of Storage<br>Capacities            | Addresses varying retention requirements with 2 TB to 24 TB storage options.     |
| Field Replaceable<br>Video Storage Drives | Reduces maintenance and repair time.   |

| HD Video Appliance                             | 8-Port  | 16-Port Pro*                                      | 24-Port Pro*                                      |
|--|---|---|---|
| Storage  | 2 or 4 TB   | 6, 9 or 12 TB (RAID 5)                            | 12, 18 or 24 TB (RAID 5)                          |
| Total PoE Output                               | 120 W   | 240 W   | 360 W   |
| Avigilon Control Center (ACC) Software Edition | Core with 8 channels (Standard and Enterprise compatible) | Standard with 16 channels (Enterprise compatible) | Standard with 24 channels (Enterprise compatible) |

<sup>\*</sup>Coming soon

## ACC<sup>™</sup> Edge Solution (ES)

Avigilon ACC ES products are all-in-one devices that bring edge intelligence to a broad range of video surveillance deployments. These solutions provide embedded storage, video analytics and remote management capabilities for centralized monitoring applications.





#### ACC Edge Solution (ES) HD Recorder

The ACC ES HD Recorder embeds core Avigilon technologies in a compact device to intelligently store HD video remotely, helping to eliminate bandwidth issues for centralized monitoring of remote sites. Choose storage capacities of 2 TB or 4 TB to store HD video up to 7K (30 MP) resolution with a recording rate of 80 Mbps and up to 30 images per second per channel.



#### ACC Edge Solution (ES) Analytics Appliance

The ACC ES Analytics Appliance is an all-in-one device that brings video analytics with edge video storage to a broad range of surveillance deployments. It adds Avigilon self-learning video analytics, network video recording and remote management to any connected video stream, whether it's an IP camera or an encoder. Enable self-monitoring mobile video surveillance features and direct mobile access to ACC ES Analytics Appliances with the ACC Mobile 3 Preview app, which is available for download from the App Store online store and the Google Play™ store.

| KEY FEATURES<br>Complete Video<br>Management | <b>BENEFITS</b> Embedded with ACC video management software.   |
|--|--|
| Compact Form<br>Factor                       | Flexible installation with a small form factor for easy installation in an enclosure at a remote site. |
| Choice of Storage<br>Capacities              | Addresses varying retention requirements with 2 TB and 4 TB storage options.                           |
| Exceptional<br>Resolution Support            | Supports up to 7K (30 MP) resolution to deliver superior image detail and coverage.                    |

| KEY FEATURES<br>Complete Video<br>Management | <b>BENEFITS</b> Embedded with ACC video management software.   |
|--|--|
| Self-Learning<br>Video Analytics             | Quickly detects and learns the surrounding scene upon initial setup, adapting to changes without manual calibration. |
| Choice of Storage<br>Capacities              | Addresses varying retention requirements with 2 TB and 4 TB storage options.   |
| Remote<br>Management                         | Enables streaming and playback through our high-performance remote monitoring workstations with ACC client software. |

#### Video Encoders

Get the benefits of Avigilon high-definition surveillance while leveraging existing surveillance systems in a cost-effective way. Avigilon analog video encoders enable you to integrate your existing NTSC or PAL analog cameras into an Avigilon high-definition surveillance system.



#### Analog Video Encoders

Avigilon analog video encoders reduce bandwidth and storage requirements while capturing high-quality surveillance footage (in full resolution of up to 30 images per second per analog camera) for greater coverage and enhanced overall protection. The analog video encoder integrates with Avigilon Control Center (ACC) software and our line of hardware solutions to create a network-based surveillance solution.

| KEY FEATURES                | BENEFITS  |
|-----------------------------|---|
| High Image Rates            | Records up to 30 IPS at 4CIF resolution from each port for a total of 120 IPS from all four ports.              |
| PTZ Support                 | RS-485 Port available for controlling standard PTZ units.   |
| Alarm Inputs and<br>Outputs | Synchronizes recording with external alarms and integrates camera motion detection into existing alarm systems. |

## Connect With Avigilon



Subscribe to the **Avigilon YouTube channel** to preview exciting new Avigilon technologies, watch in-depth product videos and follow tutorials to get the most out of your Avigilon system.



Enroll in an instructor-led class or sign up for online training to learn how to install, configure and operate Avigilon products and software from our in-house experts: **avigilon.com/training**.



Contact our global sales team to speak to a representative in your region and find out about events where you can demo Avigilon products for yourself: asksales@avigilon.com.



Avigilon high-definition surveillance solutions provide the image detail, value and intuitive software you need to protect what's most valuable.

To learn more, visit avigilon.com

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