



THE H5 PRO CAMERA: ULTRA HIGH RESOLUTION RECORDING AND DETAILED IMAGERY FOR WIDE AREA SECURITY COVERAGE

Avigilon's newest camera sets the bar for ultra high resolution security—one where cities can easily monitor for security events, stadiums have comprehensive visibility across their spaces and manufacturing site operators have line of sight into all activity taking place in their spaces with unmatched perimeter security.

The Motorola Solutions' Avigilon [H5 Pro camera](#) makes these once complex situations simple, operating with up to 61 megapixels (MP) so that intricate details can be captured at vast distances. Rather than relying on multiple separate cameras, the H5 Pro works with Avigilon's pioneering AI-powered video analytics, intelligent storage and bandwidth management and user-friendly interfaces to make wide area video coverage clearer, smarter and simpler.

With a camera that offers expansive area coverage without compromising video quality, businesses can streamline and simplify operations by minimizing the time operators have to spend toggling between different cameras to compile a complete record of security instances—a win-win.





A CAMERA SUITED TO MULTIPLE WIDE AREA SECURITY SCENARIOS

Before we go into the details and benefits of the H5 Pro camera, let's take a look at how it could work in practice in various environments.

State and local governments will get great value from the H5 Pro camera line, as they require wide dynamic range and low-light image capture to monitor large public spaces and city squares—as well as a camera that's designed to be FIPS 140-2 compliant.

But a wide variety of businesses will also be able to make the most of the H5 Pro. **Entertainment venues and sports stadiums**, for instance, are known for drawing large gatherings to a single location. To have a camera that can capture fine details from great distances, such as individual faces or even seat numbers, is an enormous benefit to managing security for these spaces.

Any location with crowded concourses and people in constant transit creates the perfect conditions for lost or stolen property, potential altercations,

accidents or crime. **Train stations, terminals and airports** are all prime examples of locations where an H5 Pro would serve as an effective—and cost-effective—replacement for existing security systems.

The H5 Pro isn't only a powerful solution to deploy inside airports. **Airlines** can also install them on the tarmac for their own overview of all activity taking place onsite, allowing for better planning and logistics, since they don't have access to the control tower at all times. The ultra high definition video enables them to see all planes on the premises, and identify individual aircraft by their tail numbers even at vast distances.

Similarly, places such as seaports, rail yards, manufacturing plants and other job sites can use the H5 Pro camera to keep track of shipments arriving and departing from the premises, while also overseeing crew operations. Security and loss prevention personnel can track numbers on containers and items, keep tabs on valuable equipment, and catch trespassers and other critical events, recording and intercepting them in real time.



Motorola Solutions' Avigilon H5 Pro camera operates with up to 61 megapixels (MP) so that intricate details can be captured at vast distances

A NEW REALM OF HIGH RESOLUTION

You know it, we know it: the biggest challenge that security operators face when switching to wide area coverage is image quality. By focusing on the core function of providing ultra high definition image capture, the H5 Pro camera is a solution that ticks all these boxes and more. It pushes the boundary of what is possible for long-range video recording by bringing a single-sensor, 61MP/10K HD camera to the market.

The wide dynamic view means that security operators can zoom in on intricate details in live and recorded video while the camera continues to capture images uninterrupted. The enhanced frame rate also makes the H5 Pro faster than ever, enabling exceptional live monitoring and supporting regulatory compliance in jurisdictions that mandate higher than average frame rates.

Powerful low-light performance allows for video to be captured in dark settings such as underground parking lots. This function is often fulfilled by infrared cameras, which lack the high resolution, minimal image noise and blur and immense area coverage of the H5 Pro Camera. Now security operators no longer have to choose between precise night visibility and superior image quality—and there's no need to add auxiliary lighting as the H5 Pro can easily operate with whatever light sources are available.

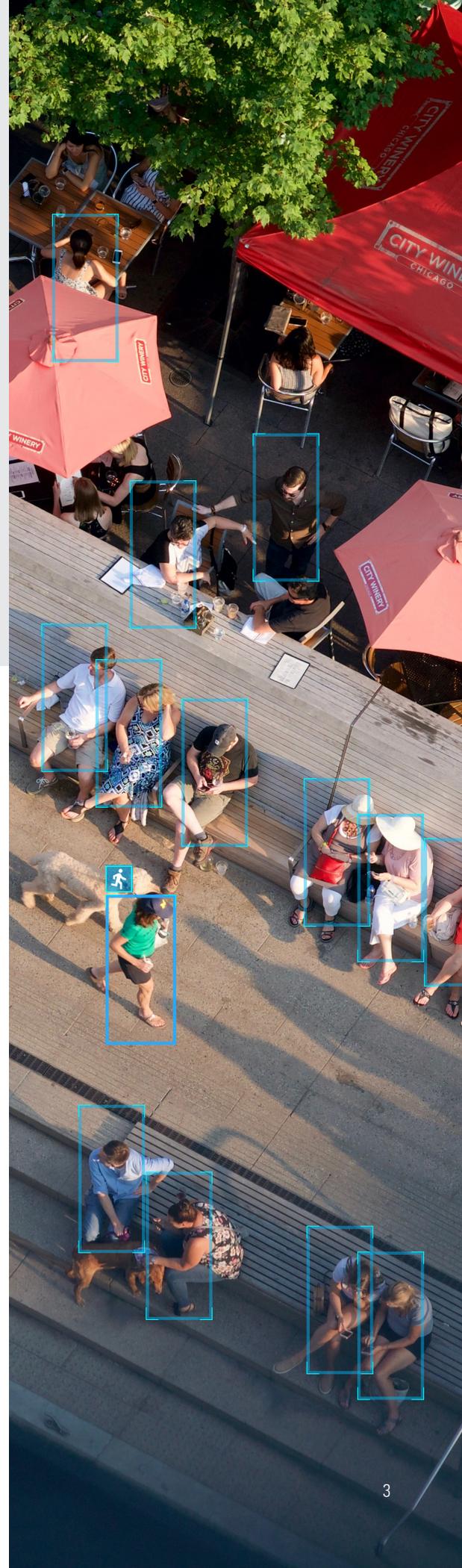
HIGHER RESOLUTION, BUT LOWER COSTS

The H5 Pro camera minimizes bandwidth and storage consumption. How? It starts with H.264 and H.265 video encoding that provides video compression support with the aid of Avigilon [High Definition Stream Management™ \(HDSM\) 2.0](#) patented technology, which reduces bandwidth requirements. The ultra high resolution image quality is retained, but the space it consumes is significantly minimized by the encoding.

As part of this approach, Avigilon's proprietary HDSM™ stream management technology stores video by splitting it into separate tiles which can then be segmented by size and intelligently retrieved and delivered by the system, depending on what the operator wants to view. HDSM 2.0™ improves upon this by operating in tandem with the H.265 compression standard—bringing together the flexibility and intelligence of one with the superior bitrate reduction of the other. All of this ultimately results in savings due to the reduced need for server space and processing power.

The total cost of operating a complete security system is further decreased by the fact that the H5 Pro mitigates the need for multiple cameras to monitor the same premises. This leads to reduced spending on hardware such as wiring and cabling, installation and storage and server access. As a result, the initial investment and any recurring maintenance for all of this infrastructure is no longer a strain on company resources.

Finally, having a single camera continuously recording a large area allows admins and operators to make the most of their time and effort, easily identifying, tracking and capturing critical events without having to stitch together evidentiary support from multiple sources.





ZOOMING IN FOR A CLOSEUP

1. A LOOK UNDER THE HOOD

A major advantage of the H5 Pro camera is its versatility and modularity. It can be adjusted for a variety of use cases as it supports a wide selection of interchangeable digital SLR lenses.

Security operators can capture the right level of detail in the right settings and contexts. For example, a medium lens can help monitor a large yet enclosed space, such as a stadium, while a long lens may be employed to oversee a more open space, as is often necessary for city and public security. Interchangeable digital SLR lenses also enable security teams to optimize the H5 Pro's performance in extremely bright or dark situations.

One of the reasons the H5 Pro camera can be positioned at such high- or long-range vantage points is its built-in SFP port, which is compatible with either fiber optic or copper networking to enable faster network connections over longer distances. This enables security operators to locate the camera at the most opportune location, without the limitations of traditional copper cable distances, thus reducing overall costs and maximizing flexibility.

Beyond the capacity to be deployed in areas that are large or small, bright or dark, the H5 Pro can be paired with matching Avigilon enclosures that help it withstand the elements. Waterproofing, resistance to corrosion and protection from airborne particulates ensure that these are resilient security cameras that can record continuously in a range of environmental factors. Neither hot nor cold weather impacts the H5 Pro's performance.

In the event of a network or server interruption, dual backup SD card support also enables video recording at the edge to prevent the loss of recorded video. In short, the H5 Pro is designed to enable security teams wherever and whenever they need exceptional recorded and real-time coverage.

2. AN INTELLIGENT USER INTERFACE

Avigilon is known for game changing video analytics, and the H5 Pro is fully compatible with next-generation solutions and features. These include enhanced object detection, tracking and classification capabilities.

For security operators searching through recorded video or keeping track of images in real time, the H5 Pro camera supports signature Avigilon technologies to ensure a safe and secure environment while also providing superior evidence if a security event or subsequent investigation takes place.

- [Avigilon Appearance Search™](#) technology enables security operators to search for people or vehicles of interest simply by entering physical descriptors into the deep learning AI video search engine.
- [Facial Recognition](#) technology lets security personnel take a proactive approach to flagging risks by automatically comparing individuals against managed watch lists.
- Last but not least, [Unusual Activity Detection](#) is an object-aware solution that understands what typical behavior, locations and movement speeds should be for people and vehicles in the field of view; if anything atypical occurs, operators are alerted immediately.

All three of these solutions are embedded into H5 Pro cameras, extending powerful analytics to the point of capture and delivering intelligent edge-based security.

3. COMPATIBLE AND COMPLIANT

Government agencies and regulated industries have special requirements for cybersecurity in all network equipment, holding them to a high standard of accountability and compliance. The necessary certification is known as FIPS 140-2, and the H5 Pro is designed to meet the specifications needed for compliance.

At the same time, it's also interoperable with ONVIF equipment, which means that the H5 Pro has the potential to integrate with existing third-party installations.



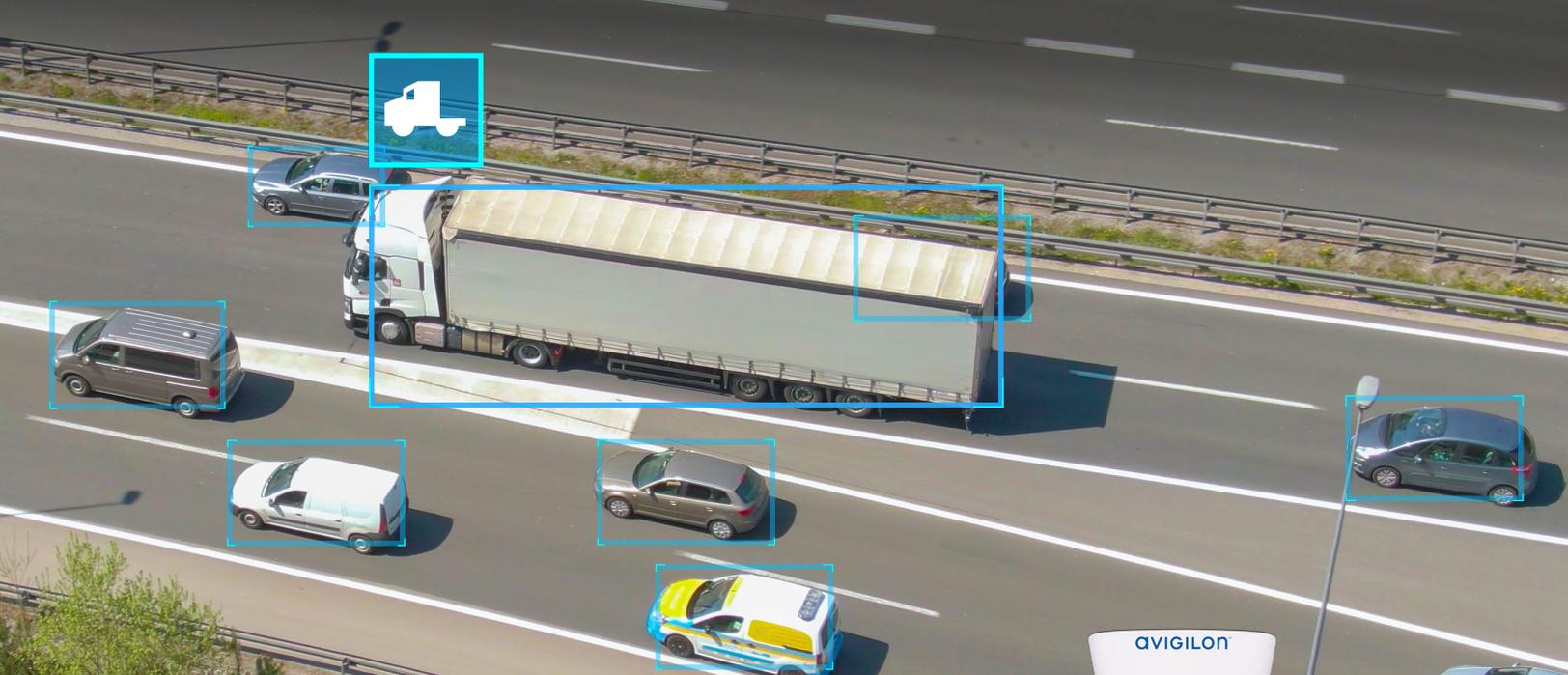
A CAMERA SUITED TO MULTIPLE WIDE AREA SECURITY SCENARIOS

The H5 Pro camera has it all. With wide area coverage, real-time image capture, powerful zoom and support for interchangeable digital SLR lenses that provide peak performance in all conditions, it's changing the game for video security. On top of that, its proactive, AI-enabled analytics capabilities pave a path for a more technologically advanced security solution, even as bandwidth and storage optimization solutions reduce the overall strain—technical and financial—on computing resources.

With an ultra high resolution, single-sensor camera, with variants of 8, 16, 26, 40, or 61 MP, security teams are now equipped with the right tool they need to ensure that unusual activity and critical events don't go unnoticed.

To learn more about how Motorola Solutions' Avigilon H5 Pro camera can better support your security team, [get in touch](#).





H5A CAMERA

2 MP 4 MP 5 MP 6 MP 8 MP

NEXT-GENERATION VIDEO ANALYTICS

The Avigilon H5A camera line features our next-generation video analytics technology. Leverage the latest in AI-powered video analytics to detect and persistently track more objects - whether stationary or moving - with greater accuracy even in crowded scenes, detect unusual activity in a scene autonomously, apply facial recognition technology to alert of face watch list matches and maintain vigilance with pandemic response technology. These advanced capabilities help provide detailed information on what is happening on your site so you can detect potentially critical security events faster and take responsive action.



H5A DOME



H5A BOX



H5A BULLET

FEATURES



H.265 & HDSM SMARTCODEC™ TECHNOLOGY

Combines compression technologies to maximize bandwidth and storage savings



SEAMLESS UPGRADE PATH

Compatible with existing industrial designs and accessories for H4A camera line



ONVIF COMPLIANT

Native ONVIF® Profile S and Profile T compliance allows easy integration with existing ONVIF infrastructures



CONTENT ADAPTIVE IR¹

Adjusts IR beam width and illumination settings based on scene conditions to help maximize image quality



WEATHER & IMPACT RATED²

IP66/67 weather rating and IK10 impact rating for vandal resistance



5-YEAR WARRANTY

Avigilon stands behind the quality of this product with a 5-year industry-leading warranty



FIPS 140-2 COMPLIANT²

Increased data security with FIPS-compliant cryptography enabled on cameras



WIDE DYNAMIC RANGE

Capture details in scenes with both very bright and very dark areas



AUTOMATIC IR CUT FILTER³

Exceptional imaging performance in low-light situations



LIGHTCATCHER™ TECHNOLOGY

Exceptional detail in low-light settings

For more information visit avigilon.com/h5a



¹ Only available on H5A Bullet and H5A Dome form factors.

² Optional purchase of FIPS Level 1 camera license or CRYPTR microSD hardware-based encryption and key management for FIPS Level 3 support and certification.

³ Only available on H5A Box form factor.

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OPEN PLATFORM INTEGRATION

LEVERAGE YOUR EXISTING SECURITY INVESTMENTS

Avigilon fixed video security solutions are built on an open platform, letting you unlock more value from your existing infrastructure and resources.

Powered by cutting-edge AI and video analytics, our open solutions are built to work with your existing video security deployments.

Avigilon is a member of ONVIF®, the open industry forum that creates standardized interfaces for effective interoperability of IP-based physical security products. Our video security portfolio of fixed cameras and Video Management Software (VMS) are designed for seamless interoperability with third party software and hardware.

Build custom integrations using our feature-rich software development kits (SDKs) and application programming interfaces (APIs). Or save development time and costs by leveraging ready to use integrations. Avigilon Control Center (ACC) video management software (VMS) and hardware ensures that you're never locked into a proprietary solution.

We keep our technology open, accessible and easy to use – so you can focus on what matters most.





AVIGILON CONTROL CENTER

Avigilon Control Center (ACC) video management software features embedded advanced analytics and simple workflows to enable operators to monitor large camera deployments in real time, powered by AI to highlight different types of security events. ACC works with any ONVIF cameras compliant to Profiles G, S, and T.



ACCESS CONTROL MANAGER

Access Control Manager (ACM) supports open-field hardware and software solutions from a wide range of leading vendors, allowing you to enhance system capabilities and leverage greater value from legacy installations. Avigilon Technology Partners can also develop their own integration solutions with our easy-to-use ACM REST API and Collaboration tools.



AVIGILON CAMERAS

Avigilon cameras integrate seamlessly with third-party video management systems through widely supported ONVIF open protocols, including Profile S, T, G and ONVIF compliant extensions. This smooth interoperability simplifies a wide range of video security interactions such as video streaming, two-way audio, digital I/O, motion detection, motion configuration, edge storage and retrieval, and video analytics and events.

For more information, please visit
www.avigilon.com/solutions/platform-integration/





H4 MULTISENSOR CAMERA LINE

YOU'RE COVERED FROM ALL ANGLES

- 32 MP
- 24 MP
- 20 MP
- 15 MP
- 12 MP
- 9 MP

Provides exceptional scene coverage and high image detail with 3 or 4 individually configurable camera sensors that can be positioned to monitor virtually any area. Delivers broad scene coverage with high image detail up to 32 MP total resolution and uses H.265 compression technology to significantly reduce bandwidth and storage requirements.



SELF-LEARNING VIDEO ANALYTICS

Exceptional efficiency when monitoring and reviewing video with excellent coverage from a single camera



H.265 & HDSM SMARTCODEC™ TECHNOLOGY

Combines compression technologies to maximize bandwidth and storage



ONVIF COMPLIANT

Native ONVIF® Profile S and Profile T compliance allows easy integration with existing ONVIF infrastructures



CONTENT ADAPTIVE IR

Adjusts IR beam width and illumination settings based on scene conditions to help maximize image quality



WIDE DYNAMIC RANGE

Capture details in scenes with both very bright and very dark areas



MADE IN AMERICA*

Built with North American expertise and globally-sourced materials



LIGHTCATCHER™ TECHNOLOGY

Exceptional detail in low-light settings

180° COVERAGE



360° COVERAGE



270° COVERAGE



For more information visit avigilon.com/h4-multisensor



*With manufacturing facilities in both the United States and Canada, our "Made in America" claim only applies to products from our Plano, Texas facility.
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H5SL CAMERA LINE

1.3 MP

2 MP

3 MP

5 MP

VALUE AND VERSATILITY, COMBINED

The H5SL camera is a versatile and cost-effective security solution that is backed by an industry-leading warranty. With value and simplicity at the heart of this camera line, you will enjoy the ease of installation, flexible design features and various lens options the H5SL offers.



H5SL BULLET



UMD TECHNOLOGY

Uses AI to continuously learn what typical activity in a scene looks like and then detect and flag unusual motion events for review



AUDIO & RELAY I/O CONNECTIONS

Incorporate audio and configure input/output actions and alarms for fast event response



H.265 & HDSM SMARTCODEC™ TECHNOLOGY

Combines compression technologies to maximize bandwidth and storage



CONTENT ADAPTIVE IR

Adjusts IR beam width and illumination settings based on scene conditions to help maximize image quality



MULTIPLE LENS OPTIONS

Choose from various lens types, including a new long zoom lens for challenging scene designs



ONVIF COMPLIANT

Native ONVIF® Profile S and Profile T compliance allows easy integration with existing ONVIF infrastructures



5-YEAR WARRANTY

Avigilon stands behind the quality of this product with a 5-year industry-leading warranty



MADE IN AMERICA

Built with North American expertise and globally-sourced materials



WIDE DYNAMIC RANGE

Capture details in scenes with both very bright and very dark areas



LIGHTCATCHER™ TECHNOLOGY

Exceptional detail in low-light settings

For more information visit avigilon.com/h5sl

